A Supplement to NOAA Manual NOS NGS 5

State Plane Coordinate System of 1983

by James E. Stern

This Supplement to **NOAA Manual NOS NGS 5** contains NAD 83 Projection Tables and/or Transverse Mercator Projection Tables, listed by state.

TRANSVERSE MERCATOR PROJECTION

TABLES FOR ALABAMA COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALABAMA EAST
ZONE CODE: 0101

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 30°30' (latitude of grid origin)
λ_b = 85°50' (longitude of origin and Central Meridian, CM)
E_0 = 200000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999960 (scale along Central Meridian)
latitude range from ϕ_{min} = 30°30' to ϕ_{max} = 35°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 30°44'20".83200
LONGITUDE: 86°20'31".80900

$p = 10^{-4}\Delta\lambda$ = -0.18318090
TABULAR (I) = 25866.9754
20.83200 sec = 641.5133
SECOND DIFF = -0.0005
(I) = 26508.4882
TABULAR (II) = 3295.3945
20.83200 sec = 0.3627
(II) = 3295.7574
TABULAR (III) = 2.2373
$N = (I) + (II)p^2 + (III)p^4$ = 26619.081 m

TABULAR (IV) = 266014.3352
20.83200 sec = -15.8981
SECOND DIFF = 0.0026
(IV) = 265998.4397
TABULAR (V) = 50.1607
20.83200 sec = -0.0216
(V) = 50.1391
TABULAR (VI) = -0.0085
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -48726.142 m
$E = E_0 + E'$ = 151273.858 m

TABULAR (XII) = 5110.4307
20.83200 sec = 0.8680
(XII) = 5111.2988
TABULAR (XIII) = 3.0026
$C = (XII)p + (XIII)p^3$ = -936".31

$q = 10^{-6} E'$ = -0.04872614
TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99998928

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.04872614$
$\phi' = 30°44'24''.42329$

TABULAR	(VII) =	1512.2485
24.42329 sec	=	0.4056
	(VII) =	1512.6541
TABULAR	(VIII) =	18.7089
24.42329 sec	=	0.0068
	(VIII) =	18.7156

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 30°44'20''.83200$

TABULAR	(IX) =	37591.9591
24.42329 sec	=	2.6344
SECOND DIFF	=	-0.0007
	(IX) =	37594.5928
TABULAR	(X) =	263.2209
24.42329 sec	=	0.0768
	(X) =	263.2977
TABULAR	(XI) =	3.3847
24.42329 sec	=	0.0019
	(XI) =	3.3865

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 86°20'31''.80900$

TABULAR	(XIV) =	19211.1103
24.42329 sec	=	5.1726
SECOND DIFF	=	-0.0005
	(XIV) =	19216.2824
TABULAR	(XV) =	211.9113
24.42329 sec	=	0.0870
	(XV) =	211.9983

$C = (XIV)q - (XV)q^3 = -936''.31$

TABULAR (XVI) = 0.012331

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99998928$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALABAMA WEST
ZONE CODE: 0102

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 30° 0' (latitude of grid origin)
λ_b = 87°30' (longitude of origin and Central Meridian, CM)
E_0 = 600000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999933 (scale along Central Meridian)
latitude range from ϕ_{min} = 30°00' to ϕ_{max} = 35°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

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   LATITUDE:  30°12'23".54600
  LONGITUDE:  88° 1'14".30200

     p = 10^-4 Δλ  =  -0.18743020
TABULAR  (   I) =   22169.3480
   23.54600 sec =     725.0112
   SECOND DIFF  =      -0.0006
         (   I) =   22894.3586
TABULAR  (  II) =    3261.2930
   23.54600 sec =       0.4239
         (  II) =    3261.7170
TABULAR  ( III) =       2.2458
 N = (I) + (II)p^2 + (III)p^4 =  23008.946 m


TABULAR  (  IV) =  267460.5537
   23.54600 sec =     -17.6853
   SECOND DIFF  =       0.0027
         (  IV) =  267442.8710
TABULAR  (   V) =      52.1468
   23.54600 sec =      -0.0244
         (   V) =      52.1225
TABULAR  (  VI) =      -0.0069
 E' = (IV)p +(V)p^3 + (VI)p^5 = -50127.214 m
 E = E0 + E' =                 549872.786 m


TABULAR  ( XII) =    5030.1995
   23.54600 sec =       0.9865
         ( XII) =    5031.1860
TABULAR  (XIII) =       2.9885
C = (XII)p + (XIII)p^3 =     -943".02


  q  = 10^-6 E'   =  -0.05012721
TABULAR  ( XVI) =     0.012333
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99996432
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Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05012721$
$\phi' = 30°12'27''.26742$

TABULAR	(VII) =	1480.6189
27.26742 sec	=	0.4480
	(VII) =	1481.0669
TABULAR	(VIII) =	18.1873
27.26742 sec	=	0.0073
	(VIII) =	18.1946

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 30°12'23''.54600$

TABULAR	(IX) =	37388.6910
27.26742 sec	=	2.8635
SECOND DIFF	=	-0.0007
	(IX) =	37391.5538
TABULAR	(X) =	257.3249
27.26742 sec	=	0.0824
	(X) =	257.4073
TABULAR	(XI) =	3.2436
27.26742 sec	=	0.0020
	(XI) =	3.2456

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 88° 1'14''.30200$

TABULAR	(XIV) =	18807.2574
27.26742 sec	=	5.7125
SECOND DIFF	=	-0.0005
	(XIV) =	18812.9694
TABULAR	(XV) =	205.2021
27.26742 sec	=	0.0940
	(XV) =	205.2961

$C = (XIV)q - (XV)q^3 = -943''.02$

TABULAR	(XVI) =	0.012333

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99996432$

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30° 0'	0.0000	30.790331	3248.2465	0.018221	2.249
	267999.5773	-0.746567	52.8911	-0.001033	-0.006
30° 1'	1847.4199	30.790409	3249.3398	0.018202	2.248
	267954.7833	-0.746945	52.8291	-0.001033	-0.006
30° 2'	3694.8444	30.790487	3250.4319	0.018184	2.248
	267909.9666	-0.747322	52.7671	-0.001034	-0.006
30° 3'	5542.2737	30.790566	3251.5230	0.018166	2.248
	267865.1273	-0.747700	52.7051	-0.001034	-0.007
30° 4'	7389.7076	30.790644	3252.6129	0.018148	2.248
	267820.2653	-0.748078	52.6431	-0.001034	-0.007
30° 5'	9237.1462	30.790722	3253.7018	0.018129	2.247
	267775.3806	-0.748456	52.5811	-0.001034	-0.007
30° 6'	11084.5896	30.790800	3254.7895	0.018111	2.247
	267730.4733	-0.748833	52.5191	-0.001034	-0.007
30° 7'	12932.0376	30.790878	3255.8762	0.018093	2.247
	267685.5433	-0.749211	52.4570	-0.001034	-0.007
30° 8'	14779.4902	30.790956	3256.9618	0.018074	2.247
	267640.5907	-0.749588	52.3950	-0.001034	-0.007
30° 9'	16626.9476	30.791035	3258.0462	0.018056	2.247
	267595.6154	-0.749965	52.3330	-0.001034	-0.007
30°10'	18474.4097	30.791113	3259.1296	0.018038	2.246
	267550.6174	-0.750343	52.2709	-0.001034	-0.007
30°11'	20321.8765	30.791191	3260.2118	0.018019	2.246
	267505.5969	-0.750720	52.2089	-0.001034	-0.007
30°12'	22169.3480	30.791270	3261.2930	0.018001	2.246
	267460.5537	-0.751097	52.1468	-0.001034	-0.007
30°13'	24016.8241	30.791348	3262.3730	0.017983	2.246
	267415.4878	-0.751474	52.0848	-0.001034	-0.007
30°14'	25864.3050	30.791426	3263.4520	0.017964	2.245
	267370.3994	-0.751852	52.0227	-0.001034	-0.007
30°15'	27711.7906	30.791505	3264.5299	0.017946	2.245
	267325.2883	-0.752229	51.9606	-0.001034	-0.007
30°16'	29559.2809	30.791583	3265.6066	0.017927	2.245
	267280.1546	-0.752605	51.8986	-0.001034	-0.007
30°17'	31406.7759	30.791662	3266.6823	0.017909	2.245
	267234.9982	-0.752982	51.8365	-0.001035	-0.007
30°18'	33254.2756	30.791740	3267.7568	0.017891	2.244
	267189.8193	-0.753359	51.7744	-0.001035	-0.007
30°19'	35101.7800	30.791819	3268.8302	0.017872	2.244
	267144.6177	-0.753736	51.7124	-0.001035	-0.007
30°20'	36949.2891	30.791897	3269.9026	0.017854	2.244
	267099.3936	-0.754113	51.6503	-0.001035	-0.007
30°21'	38796.8029	30.791976	3270.9738	0.017835	2.244
	267054.1468	-0.754489	51.5882	-0.001035	-0.007

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30°22'	40644.3215	30.792054	3272.0439	0.017817	2.243
	267008.8775	-0.754866	51.5261	-0.001035	-0.007
30°23'	42491.8448	30.792133	3273.1130	0.017799	2.243
	266963.5855	-0.755243	51.4640	-0.001035	-0.007
30°24'	44339.3727	30.792212	3274.1809	0.017780	2.243
	266918.2709	-0.755619	51.4019	-0.001035	-0.008
30°25'	46186.9054	30.792290	3275.2477	0.017762	2.243
	266872.9338	-0.755995	51.3398	-0.001035	-0.008
30°26'	48034.4429	30.792369	3276.3134	0.017743	2.242
	266827.5741	-0.756372	51.2777	-0.001035	-0.008
30°27'	49881.9850	30.792448	3277.3780	0.017725	2.242
	266782.1918	-0.756748	51.2156	-0.001035	-0.008
30°28'	51729.5319	30.792527	3278.4415	0.017706	2.242
	266736.7869	-0.757124	51.1535	-0.001035	-0.008
30°29'	53577.0835	30.792605	3279.5039	0.017688	2.241
	266691.3594	-0.757500	51.0914	-0.001035	-0.008
30°30'	55424.6398	30.792684	3280.5652	0.017670	2.241
	266645.9094	-0.757877	51.0293	-0.001035	-0.008
30°31'	57272.2008	30.792763	3281.6254	0.017651	2.241
	266600.4368	-0.758253	50.9672	-0.001035	-0.008
30°32'	59119.7666	30.792842	3282.6844	0.017633	2.241
	266554.9416	-0.758629	50.9050	-0.001035	-0.008
30°33'	60967.3371	30.792921	3283.7424	0.017614	2.240
	266509.4239	-0.759005	50.8429	-0.001035	-0.008
30°34'	62814.9124	30.793000	3284.7992	0.017596	2.240
	266463.8836	-0.759380	50.7808	-0.001036	-0.008
30°35'	64662.4923	30.793079	3285.8550	0.017577	2.240
	266418.3208	-0.759756	50.7187	-0.001036	-0.008
30°36'	66510.0770	30.793157	3286.9096	0.017559	2.240
	266372.7354	-0.760132	50.6565	-0.001036	-0.008
30°37'	68357.6665	30.793236	3287.9631	0.017540	2.239
	266327.1275	-0.760508	50.5944	-0.001036	-0.008
30°38'	70205.2607	30.793315	3289.0155	0.017522	2.239
	266281.4971	-0.760883	50.5323	-0.001036	-0.008
30°39'	72052.8596	30.793394	3290.0668	0.017503	2.239
	266235.8441	-0.761259	50.4701	-0.001036	-0.008
30°40'	73900.4633	30.793474	3291.1170	0.017485	2.238
	266190.1685	-0.761634	50.4080	-0.001036	-0.008
30°41'	75748.0717	30.793553	3292.1661	0.017466	2.238
	266144.4705	-0.762010	50.3458	-0.001036	-0.008
30°42'	77595.6848	30.793632	3293.2141	0.017448	2.238
	266098.7499	-0.762385	50.2837	-0.001036	-0.008
30°43'	79443.3028	30.793711	3294.2609	0.017429	2.238
	266053.0068	-0.762760	50.2215	-0.001036	-0.008

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30°44'	81290.9254	30.793790	3295.3067	0.017410	2.237
	266007.2412	-0.763136	50.1594	-0.001036	-0.008
30°45'	83138.5528	30.793869	3296.3513	0.017392	2.237
	265961.4530	-0.763511	50.0972	-0.001036	-0.009
30°46'	84986.1850	30.793948	3297.3948	0.017373	2.237
	265915.6424	-0.763886	50.0350	-0.001036	-0.009
30°47'	86833.8219	30.794028	3298.4372	0.017355	2.236
	265869.8092	-0.764261	49.9729	-0.001036	-0.009
30°48'	88681.4635	30.794107	3299.4785	0.017336	2.236
	265823.9536	-0.764636	49.9107	-0.001036	-0.009
30°49'	90529.1099	30.794186	3300.5187	0.017318	2.236
	265778.0754	-0.765011	49.8485	-0.001036	-0.009
30°50'	92376.7611	30.794266	3301.5577	0.017299	2.235
	265732.1747	-0.765386	49.7864	-0.001036	-0.009
30°51'	94224.4170	30.794345	3302.5957	0.017281	2.235
	265686.2516	-0.765761	49.7242	-0.001036	-0.009
30°52'	96072.0777	30.794424	3303.6325	0.017262	2.235
	265640.3060	-0.766135	49.6620	-0.001036	-0.009
30°53'	97919.7432	30.794504	3304.6682	0.017243	2.235
	265594.3378	-0.766510	49.5998	-0.001036	-0.009
30°54'	99767.4134	30.794583	3305.7028	0.017225	2.234
	265548.3472	-0.766885	49.5376	-0.001036	-0.009
30°55'	101615.0884	30.794662	3306.7363	0.017206	2.234
	265502.3342	-0.767259	49.4755	-0.001036	-0.009
30°56'	103462.7681	30.794742	3307.7687	0.017188	2.234
	265456.2986	-0.767634	49.4133	-0.001036	-0.009
30°57'	105310.4527	30.794821	3308.7999	0.017169	2.233
	265410.2406	-0.768008	49.3511	-0.001037	-0.009
30°58'	107158.1419	30.794901	3309.8301	0.017150	2.233
	265364.1601	-0.768383	49.2889	-0.001037	-0.009
30°59'	109005.8360	30.794980	3310.8591	0.017132	2.233
	265318.0571	-0.768757	49.2267	-0.001037	-0.009
31° 0'	110853.5348	30.795060	3311.8870	0.017113	2.232
	265271.9317	-0.769131	49.1645	-0.001037	-0.009
31° 1'	112701.2384	30.795140	3312.9138	0.017094	2.232
	265225.7839	-0.769505	49.1023	-0.001037	-0.009
31° 2'	114548.9468	30.795219	3313.9394	0.017076	2.232
	265179.6135	-0.769879	49.0401	-0.001037	-0.009
31° 3'	116396.6600	30.795299	3314.9640	0.017057	2.231
	265133.4208	-0.770253	48.9779	-0.001037	-0.009
31° 4'	118244.3779	30.795379	3315.9874	0.017038	2.231
	265087.2056	-0.770627	48.9157	-0.001037	-0.009
31° 5'	120092.1006	30.795458	3317.0097	0.017020	2.231
	265040.9679	-0.771001	48.8535	-0.001037	-0.009

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31° 6'	121939.8281	30.795538	3318.0309	0.017001	2.230
	264994.7078	-0.771375	48.7913	-0.001037	-0.01
31° 7'	123787.5604	30.795618	3319.0509	0.016982	2.230
	264948.4253	-0.771749	48.7291	-0.001037	-0.01
31° 8'	125635.2975	30.795697	3320.0699	0.016964	2.230
	264902.1204	-0.772123	48.6669	-0.001037	-0.01
31° 9'	127483.0393	30.795777	3321.0877	0.016945	2.229
	264855.7930	-0.772496	48.6047	-0.001037	-0.01
31°10'	129330.7859	30.795857	3322.1044	0.016926	2.229
	264809.4432	-0.772870	48.5425	-0.001037	-0.01
31°11'	131178.5374	30.795937	3323.1200	0.016908	2.229
	264763.0710	-0.773244	48.4802	-0.001037	-0.01
31°12'	133026.2936	30.796017	3324.1344	0.016889	2.228
	264716.6764	-0.773617	48.4180	-0.001037	-0.01
31°13'	134874.0546	30.796097	3325.1477	0.016870	2.228
	264670.2594	-0.773991	48.3558	-0.001037	-0.01
31°14'	136721.8204	30.796177	3326.1600	0.016851	2.228
	264623.8199	-0.774364	48.2936	-0.001037	-0.01
31°15'	138569.5910	30.796256	3327.1710	0.016833	2.227
	264577.3581	-0.774737	48.2314	-0.001037	-0.01
31°16'	140417.3664	30.796336	3328.1810	0.016814	2.227
	264530.8739	-0.775111	48.1692	-0.001037	-0.01
31°17'	142265.1465	30.796416	3329.1898	0.016795	2.227
	264484.3672	-0.775484	48.1069	-0.001037	-0.010
31°18'	144112.9315	30.796496	3330.1976	0.016777	2.226
	264437.8382	-0.775857	48.0447	-0.001037	-0.010
31°19'	145960.7213	30.796576	3331.2041	0.016758	2.226
	264391.2868	-0.776230	47.9825	-0.001037	-0.010
31°20'	147808.5159	30.796657	3332.2096	0.016739	2.226
	264344.7130	-0.776603	47.9203	-0.001037	-0.010
31°21'	149656.3153	30.796737	3333.2140	0.016720	2.225
	264298.1168	-0.776976	47.8580	-0.001037	-0.010
31°22'	151504.1195	30.796817	3334.2172	0.016701	2.225
	264251.4983	-0.777349	47.7958	-0.001037	-0.010
31°23'	153351.9285	30.796897	3335.2193	0.016683	2.224
	264204.8574	-0.777721	47.7336	-0.001037	-0.010
31°24'	155199.7423	30.796977	3336.2202	0.016664	2.224
	264158.1941	-0.778094	47.6713	-0.001037	-0.010
31°25'	157047.5609	30.797057	3337.2201	0.016645	2.224
	264111.5084	-0.778467	47.6091	-0.001037	-0.010
31°26'	158895.3844	30.797137	3338.2188	0.016626	2.223
	264064.8004	-0.778839	47.5469	-0.001037	-0.010
31°27'	160743.2126	30.797218	3339.2163	0.016608	2.223
	264018.0701	-0.779212	47.4846	-0.001037	-0.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°28'	162591.0457	30.797298	3340.2128	0.016589	2.223
	263971.3173	-0.779585	47.4224	-0.001037	-0.011
31°29'	164438.8835	30.797378	3341.2081	0.016570	2.222
	263924.5423	-0.779957	47.3602	-0.001037	-0.011
31°30'	166286.7262	30.797458	3342.2023	0.016551	2.222
	263877.7448	-0.780329	47.2979	-0.001037	-0.011
31°31'	168134.5737	30.797539	3343.1954	0.016532	2.222
	263830.9251	-0.780702	47.2357	-0.001037	-0.011
31°32'	169982.4261	30.797619	3344.1873	0.016514	2.221
	263784.0830	-0.781074	47.1735	-0.001037	-0.011
31°33'	171830.2832	30.797699	3345.1781	0.016495	2.221
	263737.2186	-0.781446	47.1112	-0.001037	-0.011
31°34'	173678.1452	30.797780	3346.1678	0.016476	2.220
	263690.3318	-0.781818	47.0490	-0.001037	-0.011
31°35'	175526.0120	30.797860	3347.1564	0.016457	2.220
	263643.4227	-0.782190	46.9867	-0.001037	-0.011
31°36'	177373.8836	30.797941	3348.1438	0.016438	2.220
	263596.4913	-0.782562	46.9245	-0.001037	-0.011
31°37'	179221.7600	30.798021	3349.1301	0.016419	2.219
	263549.5376	-0.782934	46.8623	-0.001037	-0.011
31°38'	181069.6413	30.798102	3350.1152	0.016400	2.219
	263502.5615	-0.783306	46.8000	-0.001037	-0.011
31°39'	182917.5274	30.798182	3351.0993	0.016382	2.218
	263455.5632	-0.783678	46.7378	-0.001037	-0.011
31°40'	184765.4183	30.798263	3352.0822	0.016363	2.218
	263408.5425	-0.784049	46.6755	-0.001037	-0.011
31°41'	186613.3141	30.798343	3353.0639	0.016344	2.218
	263361.4996	-0.784421	46.6133	-0.001037	-0.011
31°42'	188461.2147	30.798424	3354.0446	0.016325	2.217
	263314.4343	-0.784793	46.5510	-0.001037	-0.011
31°43'	190309.1201	30.798505	3355.0241	0.016306	2.217
	263267.3468	-0.785164	46.4888	-0.001037	-0.011
31°44'	192157.0304	30.798585	3356.0024	0.016287	2.217
	263220.2369	-0.785536	46.4266	-0.001037	-0.011
31°45'	194004.9455	30.798666	3356.9797	0.016268	2.216
	263173.1048	-0.785907	46.3643	-0.001037	-0.011
31°46'	195852.8655	30.798747	3357.9558	0.016249	2.216
	263125.9504	-0.786278	46.3021	-0.001037	-0.011
31°47'	197700.7903	30.798827	3358.9307	0.016231	2.215
	263078.7737	-0.786650	46.2398	-0.001037	-0.011
31°48'	199548.7199	30.798908	3359.9046	0.016212	2.215
	263031.5747	-0.787021	46.1776	-0.001037	-0.011
31°49'	201396.6544	30.798989	3360.8773	0.016193	2.215
	262984.3534	-0.787392	46.1153	-0.001037	-0.011

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°50'	203244.5937	30.799069	3361.8488	0.016174	2.214
	262937.1099	-0.787763	46.0531	-0.001037	-0.012
31°51'	205092.5379	30.799150	3362.8192	0.016155	2.214
	262889.8441	-0.788134	45.9908	-0.001037	-0.012
31°52'	206940.4869	30.799231	3363.7885	0.016136	2.213
	262842.5561	-0.788505	45.9286	-0.001037	-0.012
31°53'	208788.4407	30.799312	3364.7567	0.016117	2.213
	262795.2458	-0.788876	45.8664	-0.001037	-0.012
31°54'	210636.3995	30.799393	3365.7237	0.016098	2.212
	262747.9132	-0.789247	45.8041	-0.001037	-0.012
31°55'	212484.3630	30.799474	3366.6896	0.016079	2.212
	262700.5584	-0.789618	45.7419	-0.001037	-0.012
31°56'	214332.3314	30.799555	3367.6543	0.016060	2.212
	262653.1814	-0.789988	45.6796	-0.001037	-0.012
31°57'	216180.3047	30.799636	3368.6179	0.016041	2.211
	262605.7821	-0.790359	45.6174	-0.001037	-0.012
31°58'	218028.2829	30.799717	3369.5804	0.016022	2.211
	262558.3605	-0.790729	45.5551	-0.001037	-0.012
31°59'	219876.2659	30.799798	3370.5417	0.016003	2.210
	262510.9168	-0.791100	45.4929	-0.001037	-0.012
32° 0'	221724.2537	30.799879	3371.5019	0.015984	2.210
	262463.4508	-0.791470	45.4307	-0.001037	-0.012
32° 1'	223572.2464	30.799960	3372.4610	0.015965	2.210
	262415.9626	-0.791841	45.3684	-0.001037	-0.012
32° 2'	225420.2440	30.800041	3373.4189	0.015946	2.209
	262368.4521	-0.792211	45.3062	-0.001037	-0.012
32° 3'	227268.2464	30.800122	3374.3757	0.015927	2.209
	262320.9195	-0.792581	45.2439	-0.001037	-0.012
32° 4'	229116.2537	30.800203	3375.3313	0.015908	2.208
	262273.3646	-0.792951	45.1817	-0.001037	-0.012
32° 5'	230964.2659	30.800284	3376.2858	0.015889	2.208
	262225.7875	-0.793322	45.1195	-0.001037	-0.012
32° 6'	232812.2829	30.800365	3377.2392	0.015870	2.207
	262178.1882	-0.793692	45.0572	-0.001037	-0.012
32° 7'	234660.3049	30.800446	3378.1914	0.015851	2.207
	262130.5667	-0.794062	44.9950	-0.001037	-0.012
32° 8'	236508.3316	30.800527	3379.1425	0.015832	2.207
	262082.9230	-0.794432	44.9327	-0.001037	-0.012
32° 9'	238356.3633	30.800609	3380.0924	0.015813	2.206
	262035.2571	-0.794801	44.8705	-0.001037	-0.012
32°10'	240204.3998	30.800690	3381.0412	0.015794	2.206
	261987.5690	-0.795171	44.8083	-0.001037	-0.012
32°11'	242052.4412	30.800771	3381.9888	0.015775	2.205
	261939.8588	-0.795541	44.7460	-0.001037	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°12'	243900.4875	30.800853	3382.9354	0.015756	2.205
	261892.1263	-0.795911	44.6838	-0.001037	-0.013
32°13'	245748.5386	30.800934	3383.8807	0.015737	2.204
	261844.3717	-0.796280	44.6216	-0.001037	-0.013
32°14'	247596.5947	30.801015	3384.8249	0.015718	2.204
	261796.5949	-0.796650	44.5593	-0.001037	-0.013
32°15'	249444.6556	30.801097	3385.7680	0.015699	2.203
	261748.7959	-0.797019	44.4971	-0.001037	-0.013
32°16'	251292.7214	30.801178	3386.7100	0.015680	2.203
	261700.9747	-0.797389	44.4349	-0.001037	-0.013
32°17'	253140.7920	30.801259	3387.6508	0.015661	2.203
	261653.1314	-0.797758	44.3727	-0.001037	-0.013
32°18'	254988.8676	30.801341	3388.5904	0.015642	2.202
	261605.2659	-0.798127	44.3104	-0.001037	-0.013
32°19'	256836.9480	30.801422	3389.5289	0.015623	2.202
	261557.3783	-0.798496	44.2482	-0.001037	-0.013
32°20'	258685.0334	30.801504	3390.4663	0.015604	2.201
	261509.4685	-0.798866	44.1860	-0.001037	-0.013
32°21'	260533.1236	30.801585	3391.4025	0.015584	2.201
	261461.5366	-0.799235	44.1238	-0.001037	-0.013
32°22'	262381.2187	30.801667	3392.3375	0.015565	2.200
	261413.5825	-0.799604	44.0615	-0.001037	-0.013
32°23'	264229.3187	30.801748	3393.2715	0.015546	2.200
	261365.6063	-0.799973	43.9993	-0.001037	-0.013
32°24'	266077.4236	30.801830	3394.2042	0.015527	2.199
	261317.6079	-0.800341	43.9371	-0.001037	-0.013
32°25'	267925.5334	30.801911	3395.1359	0.015508	2.199
	261269.5874	-0.800710	43.8749	-0.001037	-0.013
32°26'	269773.6481	30.801993	3396.0664	0.015489	2.198
	261221.5448	-0.801079	43.8127	-0.001037	-0.013
32°27'	271621.7676	30.802075	3396.9957	0.015470	2.198
	261173.4801	-0.801448	43.7504	-0.001037	-0.013
32°28'	273469.8921	30.802156	3397.9239	0.015451	2.198
	261125.3932	-0.801816	43.6882	-0.001037	-0.013
32°29'	275318.0215	30.802238	3398.8509	0.015432	2.197
	261077.2842	-0.802185	43.6260	-0.001037	-0.013
32°30'	277166.1558	30.802320	3399.7768	0.015412	2.197
	261029.1531	-0.802553	43.5638	-0.001037	-0.013
32°31'	279014.2950	30.802401	3400.7016	0.015393	2.196
	260980.9999	-0.802922	43.5016	-0.001037	-0.013
32°32'	280862.4390	30.802483	3401.6252	0.015374	2.196
	260932.8246	-0.803290	43.4394	-0.001037	-0.013
32°33'	282710.5880	30.802565	3402.5476	0.015355	2.195
	260884.6272	-0.803658	43.3772	-0.001037	-0.013

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°34'	284558.7419	30.802647	3403.4689	0.015336	2.195
	260836.4077	-0.804027	43.3150	-0.001037	-0.013
32°35'	286406.9007	30.802729	3404.3891	0.015317	2.194
	260788.1661	-0.804395	43.2528	-0.001037	-0.014
32°36'	288255.0644	30.802810	3405.3081	0.015298	2.194
	260739.9024	-0.804763	43.1906	-0.001037	-0.014
32°37'	290103.2331	30.802892	3406.2259	0.015278	2.193
	260691.6166	-0.805131	43.1284	-0.001037	-0.014
32°38'	291951.4066	30.802974	3407.1426	0.015259	2.193
	260643.3088	-0.805499	43.0662	-0.001037	-0.014
32°39'	293799.5850	30.803056	3408.0582	0.015240	2.192
	260594.9788	-0.805867	43.0040	-0.001037	-0.014
32°40'	295647.7684	30.803138	3408.9726	0.015221	2.192
	260546.6268	-0.806235	42.9418	-0.001036	-0.014
32°41'	297495.9567	30.803220	3409.8858	0.015202	2.191
	260498.2527	-0.806603	42.8796	-0.001036	-0.014
32°42'	299344.1499	30.803302	3410.7979	0.015182	2.191
	260449.8566	-0.806970	42.8174	-0.001036	-0.014
32°43'	301192.3480	30.803384	3411.7089	0.015163	2.190
	260401.4384	-0.807338	42.7552	-0.001036	-0.014
32°44'	303040.5510	30.803466	3412.6186	0.015144	2.190
	260352.9981	-0.807705	42.6931	-0.001036	-0.014
32°45'	304888.7589	30.803548	3413.5273	0.015125	2.189
	260304.5358	-0.808073	42.6309	-0.001036	-0.014
32°46'	306736.9718	30.803630	3414.4348	0.015106	2.189
	260256.0514	-0.808440	42.5687	-0.001036	-0.014
32°47'	308585.1896	30.803712	3415.3411	0.015086	2.188
	260207.5450	-0.808808	42.5065	-0.001036	-0.014
32°48'	310433.4123	30.803794	3416.2463	0.015067	2.188
	260159.0165	-0.809175	42.4444	-0.001036	-0.014
32°49'	312281.6400	30.803876	3417.1503	0.015048	2.187
	260110.4660	-0.809542	42.3822	-0.001036	-0.014
32°50'	314129.8726	30.803958	3418.0532	0.015029	2.187
	260061.8935	-0.809909	42.3200	-0.001036	-0.014
32°51'	315978.1101	30.804041	3418.9549	0.015009	2.186
	260013.2989	-0.810277	42.2578	-0.001036	-0.014
32°52'	317826.3525	30.804123	3419.8554	0.014990	2.186
	259964.6823	-0.810644	42.1957	-0.001036	-0.014
32°53'	319674.5999	30.804205	3420.7549	0.014971	2.185
	259916.0437	-0.811011	42.1335	-0.001036	-0.014
32°54'	321522.8521	30.804287	3421.6531	0.014952	2.185
	259867.3830	-0.811378	42.0714	-0.001036	-0.014
32°55'	323371.1094	30.804369	3422.5502	0.014932	2.184
	259818.7004	-0.811744	42.0092	-0.001036	-0.014

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0028

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°56'	325219.3715	30.804452	3423.4461	0.014913	2.184
	259769.9957	-0.812111	41.9471	-0.001036	-0.014
32°57'	327067.6386	30.804534	3424.3409	0.014894	2.183
	259721.2690	-0.812478	41.8849	-0.001036	-0.014
32°58'	328915.9107	30.804616	3425.2345	0.014874	2.183
	259672.5204	-0.812845	41.8228	-0.001036	-0.014
32°59'	330764.1877	30.804699	3426.1270	0.014855	2.182
	259623.7497	-0.813211	41.7606	-0.001036	-0.015
33° 0'	332612.4696	30.804781	3427.0183	0.014836	2.182
	259574.9570	-0.813578	41.6985	-0.001036	-0.015
33° 1'	334460.7564	30.804863	3427.9085	0.014817	2.181
	259526.1424	-0.813944	41.6363	-0.001036	-0.015
33° 2'	336309.0483	30.804946	3428.7975	0.014797	2.181
	259477.3057	-0.814310	41.5742	-0.001036	-0.015
33° 3'	338157.3450	30.805028	3429.6853	0.014778	2.180
	259428.4471	-0.814677	41.5121	-0.001035	-0.015
33° 4'	340005.6467	30.805111	3430.5720	0.014759	2.180
	259379.5665	-0.815043	41.4499	-0.001035	-0.015
33° 5'	341853.9533	30.805193	3431.4575	0.014739	2.179
	259330.6639	-0.815409	41.3878	-0.001035	-0.015
33° 6'	343702.2649	30.805276	3432.3419	0.014720	2.179
	259281.7394	-0.815775	41.3257	-0.001035	-0.015
33° 7'	345550.5815	30.805358	3433.2251	0.014701	2.178
	259232.7928	-0.816141	41.2636	-0.001035	-0.015
33° 8'	347398.9030	30.805441	3434.1071	0.014681	2.178
	259183.8243	-0.816507	41.2015	-0.001035	-0.015
33° 9'	349247.2294	30.805523	3434.9880	0.014662	2.177
	259134.8339	-0.816873	41.1393	-0.001035	-0.015
33°10'	351095.5608	30.805606	3435.8677	0.014643	2.176
	259085.8215	-0.817239	41.0772	-0.001035	-0.015
33°11'	352943.8972	30.805688	3436.7463	0.014623	2.176
	259036.7872	-0.817605	41.0151	-0.001035	-0.015
33°12'	354792.2385	30.805771	3437.6237	0.014604	2.175
	258987.7309	-0.817971	40.9530	-0.001035	-0.015
33°13'	356640.5847	30.805854	3438.4999	0.014585	2.175
	258938.6526	-0.818336	40.8909	-0.001035	-0.015
33°14'	358488.9360	30.805936	3439.3750	0.014565	2.174
	258889.5524	-0.818702	40.8288	-0.001035	-0.015
33°15'	360337.2921	30.806019	3440.2489	0.014546	2.174
	258840.4303	-0.819067	40.7667	-0.001035	-0.015
33°16'	362185.6533	30.806102	3441.1217	0.014527	2.173
	258791.2863	-0.819433	40.7046	-0.001035	-0.015
33°17'	364034.0194	30.806185	3441.9933	0.014507	2.173
	258742.1203	-0.819798	40.6425	-0.001035	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°18'	365882.3905	30.806267	3442.8637	0.014488	2.172
	258692.9324	-0.820164	40.5805	-0.001035	-0.015
33°19'	367730.7665	30.806350	3443.7330	0.014468	2.172
	258643.7226	-0.820529	40.5184	-0.001035	-0.015
33°20'	369579.1475	30.806433	3444.6011	0.014449	2.171
	258594.4909	-0.820894	40.4563	-0.001035	-0.015
33°21'	371427.5335	30.806516	3445.4680	0.014430	2.171
	258545.2372	-0.821259	40.3942	-0.001034	-0.015
33°22'	373275.9244	30.806598	3446.3338	0.014410	2.170
	258495.9617	-0.821624	40.3322	-0.001034	-0.015
33°23'	375124.3203	30.806681	3447.1984	0.014391	2.169
	258446.6642	-0.821989	40.2701	-0.001034	-0.016
33°24'	376972.7212	30.806764	3448.0618	0.014371	2.169
	258397.3449	-0.822354	40.2080	-0.001034	-0.016
33°25'	378821.1271	30.806847	3448.9241	0.014352	2.168
	258348.0036	-0.822719	40.1460	-0.001034	-0.016
33°26'	380669.5379	30.806930	3449.7852	0.014333	2.168
	258298.6405	-0.823084	40.0839	-0.001034	-0.016
33°27'	382517.9537	30.807013	3450.6452	0.014313	2.167
	258249.2555	-0.823448	40.0219	-0.001034	-0.016
33°28'	384366.3745	30.807096	3451.5040	0.014294	2.167
	258199.8486	-0.823813	39.9598	-0.001034	-0.016
33°29'	386214.8002	30.807179	3452.3616	0.014274	2.166
	258150.4198	-0.824178	39.8978	-0.001034	-0.016
33°30'	388063.2310	30.807262	3453.2181	0.014255	2.165
	258100.9691	-0.824542	39.8358	-0.001034	-0.016
33°31'	389911.6667	30.807345	3454.0733	0.014235	2.165
	258051.4966	-0.824907	39.7737	-0.001034	-0.016
33°32'	391760.1074	30.807428	3454.9275	0.014216	2.164
	258002.0022	-0.825271	39.7117	-0.001034	-0.016
33°33'	393608.5530	30.807511	3455.7804	0.014196	2.164
	257952.4859	-0.825635	39.6497	-0.001034	-0.016
33°34'	395457.0037	30.807594	3456.6322	0.014177	2.163
	257902.9478	-0.826000	39.5877	-0.001034	-0.016
33°35'	397305.4594	30.807677	3457.4828	0.014158	2.163
	257853.3878	-0.826364	39.5257	-0.001034	-0.016
33°36'	399153.9200	30.807760	3458.3323	0.014138	2.162
	257803.8060	-0.826728	39.4636	-0.001033	-0.016
33°37'	401002.3856	30.807844	3459.1806	0.014119	2.162
	257754.2023	-0.827092	39.4016	-0.001033	-0.016
33°38'	402850.8562	30.807927	3460.0277	0.014099	2.161
	257704.5768	-0.827456	39.3396	-0.001033	-0.016
33°39'	404699.3318	30.808010	3460.8736	0.014080	2.160
	257654.9295	-0.827820	39.2776	-0.001033	-0.016

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°40'	406547.8124	30.808093	3461.7184	0.014060	2.160
	257605.2603	-0.828184	39.2156	-0.001033	-0.016
33°41'	408396.2980	30.808176	3462.5620	0.014041	2.159
	257555.5693	-0.828547	39.1537	-0.001033	-0.016
33°42'	410244.7886	30.808260	3463.4044	0.014021	2.159
	257505.8564	-0.828911	39.0917	-0.001033	-0.016
33°43'	412093.2842	30.808343	3464.2457	0.014002	2.158
	257456.1218	-0.829275	39.0297	-0.001033	-0.016
33°44'	413941.7847	30.808426	3465.0858	0.013982	2.157
	257406.3653	-0.829638	38.9677	-0.001033	-0.016
33°45'	415790.2903	30.808509	3465.9247	0.013963	2.157
	257356.5870	-0.830002	38.9057	-0.001033	-0.016
33°46'	417638.8009	30.808593	3466.7625	0.013943	2.156
	257306.7869	-0.830365	38.8438	-0.001033	-0.016
33°47'	419487.3164	30.808676	3467.5991	0.013924	2.156
	257256.9649	-0.830729	38.7818	-0.001033	-0.016
33°48'	421335.8370	30.808760	3468.4345	0.013904	2.155
	257207.1212	-0.831092	38.7199	-0.001033	-0.016
33°49'	423184.3626	30.808843	3469.2687	0.013885	2.154
	257157.2557	-0.831455	38.6579	-0.001032	-0.017
33°50'	425032.8931	30.808926	3470.1018	0.013865	2.154
	257107.3684	-0.831818	38.5960	-0.001032	-0.017
33°51'	426881.4287	30.809010	3470.9337	0.013845	2.153
	257057.4593	-0.832181	38.5340	-0.001032	-0.017
33°52'	428729.9693	30.809093	3471.7644	0.013826	2.153
	257007.5284	-0.832544	38.4721	-0.001032	-0.017
33°53'	430578.5149	30.809177	3472.5940	0.013806	2.152
	256957.5758	-0.832907	38.4102	-0.001032	-0.017
33°54'	432427.0655	30.809260	3473.4224	0.013787	2.151
	256907.6013	-0.833270	38.3482	-0.001032	-0.017
33°55'	434275.6211	30.809344	3474.2496	0.013767	2.151
	256857.6051	-0.833633	38.2863	-0.001032	-0.017
33°56'	436124.1817	30.809427	3475.0756	0.013748	2.150
	256807.5871	-0.833996	38.2244	-0.001032	-0.017
33°57'	437972.7474	30.809511	3475.9005	0.013728	2.150
	256757.5474	-0.834359	38.1625	-0.001032	-0.017
33°58'	439821.3180	30.809594	3476.7241	0.013708	2.149
	256707.4858	-0.834721	38.1006	-0.001032	-0.017
33°59'	441669.8937	30.809678	3477.5467	0.013689	2.148
	256657.4026	-0.835084	38.0387	-0.001032	-0.017
34° 0'	443518.4744	30.809762	3478.3680	0.013669	2.148
	256607.2976	-0.835446	37.9768	-0.001031	-0.017
34° 1'	445367.0600	30.809845	3479.1881	0.013650	2.147
	256557.1708	-0.835809	37.9149	-0.001031	-0.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34° 2'	447215.6508	30.809929	3480.0071	0.013630	2.147
	256507.0223	-0.836171	37.8530	-0.001031	-0.017
34° 3'	449064.2465	30.810013	3480.8249	0.013611	2.146
	256456.8520	-0.836533	37.7911	-0.001031	-0.017
34° 4'	450912.8472	30.810096	3481.6416	0.013591	2.145
	256406.6600	-0.836895	37.7293	-0.001031	-0.017
34° 5'	452761.4530	30.810180	3482.4570	0.013571	2.145
	256356.4463	-0.837258	37.6674	-0.001031	-0.017
34° 6'	454610.0638	30.810264	3483.2713	0.013552	2.144
	256306.2108	-0.837620	37.6055	-0.001031	-0.017
34° 7'	456458.6796	30.810347	3484.0844	0.013532	2.144
	256255.9537	-0.837982	37.5437	-0.001031	-0.017
34° 8'	458307.3005	30.810431	3484.8963	0.013512	2.143
	256205.6748	-0.838344	37.4818	-0.001031	-0.017
34° 9'	460155.9264	30.810515	3485.7071	0.013493	2.142
	256155.3741	-0.838705	37.4200	-0.001031	-0.017
34°10'	462004.5573	30.810599	3486.5167	0.013473	2.142
	256105.0518	-0.839067	37.3581	-0.001031	-0.017
34°11'	463853.1932	30.810683	3487.3251	0.013454	2.141
	256054.7078	-0.839429	37.2963	-0.001030	-0.017
34°12'	465701.8342	30.810767	3488.1323	0.013434	2.140
	256004.3420	-0.839791	37.2345	-0.001030	-0.017
34°13'	467550.4801	30.810850	3488.9383	0.013414	2.140
	255953.9546	-0.840152	37.1727	-0.001030	-0.017
34°14'	469399.1312	30.810934	3489.7432	0.013395	2.139
	255903.5455	-0.840514	37.1108	-0.001030	-0.017
34°15'	471247.7872	30.811018	3490.5468	0.013375	2.139
	255853.1146	-0.840875	37.0490	-0.001030	-0.018
34°16'	473096.4483	30.811102	3491.3493	0.013355	2.138
	255802.6621	-0.841237	36.9872	-0.001030	-0.018
34°17'	474945.1144	30.811186	3492.1507	0.013336	2.137
	255752.1879	-0.841598	36.9254	-0.001030	-0.018
34°18'	476793.7856	30.811270	3492.9508	0.013316	2.137
	255701.6920	-0.841959	36.8636	-0.001030	-0.018
34°19'	478642.4618	30.811354	3493.7498	0.013296	2.136
	255651.1745	-0.842320	36.8019	-0.001030	-0.018
34°20'	480491.1431	30.811438	3494.5475	0.013277	2.135
	255600.6353	-0.842681	36.7401	-0.001030	-0.018
34°21'	482339.8293	30.811522	3495.3441	0.013257	2.135
	255550.0744	-0.843043	36.6783	-0.001029	-0.018
34°22'	484188.5207	30.811606	3496.1396	0.013237	2.134
	255499.4918	-0.843404	36.6165	-0.001029	-0.018
34°23'	486037.2170	30.811690	3496.9338	0.013218	2.133
	255448.8876	-0.843764	36.5548	-0.001029	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°24'	487885.9185	30.811774	3497.7269	0.013198	2.133
	255398.2618	-0.844125	36.4930	-0.001029	-0.018
34°25'	489734.6249	30.811858	3498.5187	0.013178	2.132
	255347.6142	-0.844486	36.4313	-0.001029	-0.018
34°26'	491583.3364	30.811943	3499.3094	0.013159	2.131
	255296.9451	-0.844847	36.3695	-0.001029	-0.018
34°27'	493432.0530	30.812027	3500.0989	0.013139	2.131
	255246.2543	-0.845207	36.3078	-0.001029	-0.018
34°28'	495280.7746	30.812111	3500.8873	0.013119	2.130
	255195.5418	-0.845568	36.2461	-0.001029	-0.018
34°29'	497129.5012	30.812195	3501.6744	0.013099	2.129
	255144.8078	-0.845928	36.1843	-0.001029	-0.018
34°30'	498978.2329	30.812279	3502.4604	0.013080	2.129
	255094.0521	-0.846289	36.1226	-0.001028	-0.018
34°31'	500826.9697	30.812363	3503.2452	0.013060	2.128
	255043.2747	-0.846649	36.0609	-0.001028	-0.018
34°32'	502675.7115	30.812448	3504.0287	0.013040	2.128
	254992.4758	-0.847009	35.9992	-0.001028	-0.018
34°33'	504524.4584	30.812532	3504.8112	0.013020	2.127
	254941.6552	-0.847370	35.9375	-0.001028	-0.018
34°34'	506373.2103	30.812616	3505.5924	0.013001	2.126
	254890.8130	-0.847730	35.8758	-0.001028	-0.018
34°35'	508221.9673	30.812701	3506.3724	0.012981	2.126
	254839.9492	-0.848090	35.8141	-0.001028	-0.018
34°36'	510070.7293	30.812785	3507.1513	0.012961	2.125
	254789.0638	-0.848450	35.7525	-0.001028	-0.018
34°37'	511919.4964	30.812869	3507.9290	0.012941	2.124
	254738.1568	-0.848810	35.6908	-0.001028	-0.018
34°38'	513768.2685	30.812954	3508.7055	0.012922	2.124
	254687.2282	-0.849170	35.6291	-0.001028	-0.018
34°39'	515617.0457	30.813038	3509.4808	0.012902	2.123
	254636.2781	-0.849530	35.5675	-0.001027	-0.018
34°40'	517465.8280	30.813122	3510.2549	0.012882	2.122
	254585.3063	-0.849889	35.5058	-0.001027	-0.018
34°41'	519314.6154	30.813207	3511.0278	0.012862	2.122
	254534.3129	-0.850249	35.4442	-0.001027	-0.019
34°42'	521163.4078	30.813291	3511.7995	0.012843	2.121
	254483.2980	-0.850609	35.3825	-0.001027	-0.019
34°43'	523012.2052	30.813376	3512.5701	0.012823	2.120
	254432.2615	-0.850968	35.3209	-0.001027	-0.019
34°44'	524861.0078	30.813460	3513.3395	0.012803	2.120
	254381.2034	-0.851327	35.2593	-0.001027	-0.019
34°45'	526709.8154	30.813545	3514.1077	0.012783	2.119
	254330.1238	-0.851687	35.1977	-0.001027	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°46'	528558.6281	30.813629	3514.8747	0.012763	2.118
	254279.0225	-0.852046	35.1361	-0.001027	-0.019
34°47'	530407.4458	30.813714	3515.6405	0.012744	2.117
	254227.8998	-0.852405	35.0745	-0.001027	-0.019
34°48'	532256.2686	30.813798	3516.4051	0.012724	2.117
	254176.7555	-0.852765	35.0129	-0.001026	-0.019
34°49'	534105.0965	30.813883	3517.1685	0.012704	2.116
	254125.5896	-0.853124	34.9513	-0.001026	-0.019
34°50'	535953.9295	30.813967	3517.9308	0.012684	2.115
	254074.4022	-0.853483	34.8897	-0.001026	-0.019
34°51'	537802.7675	30.814052	3518.6918	0.012664	2.115
	254023.1932	-0.853842	34.8282	-0.001026	-0.019
34°52'	539651.6106	30.814137	3519.4517	0.012645	2.114
	253971.9627	-0.854201	34.7666	-0.001026	-0.019
34°53'	541500.4588	30.814221	3520.2104	0.012625	2.113
	253920.7106	-0.854559	34.7050	-0.001026	-0.019
34°54'	543349.3121	30.814306	3520.9679	0.012605	2.113
	253869.4371	-0.854918	34.6435	-0.001026	-0.019
34°55'	545198.1705	30.814391	3521.7242	0.012585	2.112
	253818.1420	-0.855277	34.5819	-0.001026	-0.019
34°56'	547047.0339	30.814475	3522.4793	0.012565	2.111
	253766.8254	-0.855635	34.5204	-0.001025	-0.019
34°57'	548895.9024	30.814560	3523.2332	0.012545	2.111
	253715.4872	-0.855994	34.4589	-0.001025	-0.019
34°58'	550744.7760	30.814645	3523.9859	0.012526	2.110
	253664.1276	-0.856353	34.3974	-0.001025	-0.019
34°59'	552593.6547	30.814729	3524.7375	0.012506	2.109
	253612.7465	-0.856711	34.3359	-0.001025	-0.019
35° 0'	554442.5384	30.814814	3525.4878	0.012486	2.109
	253561.3438	-0.857069	34.2744	-0.001025	-0.019
35° 1'	556291.4273	30.814899	3526.2370	0.012466	2.108
	253509.9196	-0.857428	34.2129	-0.001025	-0.019
35° 2'	558140.3212	30.814984	3526.9849	0.012446	2.107
	253458.4740	-0.857786	34.1514	-0.001025	-0.019
35° 3'	559989.2203	30.815069	3527.7317	0.012426	2.106
	253407.0069	-0.858144	34.0899	-0.001025	-0.019
35° 4'	561838.1244	30.815153	3528.4773	0.012406	2.106
	253355.5182	-0.858502	34.0284	-0.001024	-0.019
35° 5'	563687.0336	30.815238	3529.2217	0.012387	2.105
	253304.0081	-0.858860	33.9670	-0.001024	-0.019
35° 6'	565535.9479	30.815323	3529.9649	0.012367	2.104
	253252.4765	-0.859218	33.9055	-0.001024	-0.019
35° 7'	567384.8673	30.815408	3530.7069	0.012347	2.104
	253200.9234	-0.859576	33.8441	-0.001024	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35° 8'	569233.7918	30.815493	3531.4477	0.012327	2.103
	253149.3489	-0.859933	33.7826	-0.001024	-0.019
35° 9'	571082.7213	30.815578	3532.1873	0.012307	2.102
	253097.7529	-0.860291	33.7212	-0.001024	-0.020
35°10'	572931.6560	30.815663	3532.9257	0.012287	2.101
	253046.1354	-0.860649	33.6598	-0.001024	-0.020
35°11'	574780.5958	30.815748	3533.6630	0.012267	2.101
	252994.4965	-0.861006	33.5984	-0.001023	-0.020
35°12'	576629.5406	30.815833	3534.3990	0.012247	2.100
	252942.8361	-0.861364	33.5370	-0.001023	-0.020
35°13'	578478.4906	30.815918	3535.1338	0.012227	2.099
	252891.1543	-0.861721	33.4756	-0.001023	-0.020
35°14'	580327.4457	30.816003	3535.8675	0.012208	2.099
	252839.4510	-0.862079	33.4142	-0.001023	-0.020
35°15'	582176.4059	30.816088	3536.5999	0.012188	2.098
	252787.7263	-0.862436	33.3528	-0.001023	-0.020
35°16'	584025.3711	30.816173	3537.3312	0.012168	2.097
	252735.9802	-0.862793	33.2914	-0.001023	-0.020
35°17'	585874.3415	30.816258	3538.0613	0.012148	2.096
	252684.2126	-0.863150	33.2300	-0.001023	-0.020
35°18'	587723.3170	30.816343	3538.7901	0.012128	2.096
	252632.4236	-0.863507	33.1687	-0.001022	-0.020
35°19'	589572.2976	30.816428	3539.5178	0.012108	2.095
	252580.6131	-0.863864	33.1073	-0.001022	-0.020
35°20'	591421.2833	30.816513	3540.2443	0.012088	2.094
	252528.7813	-0.864221	33.0460	-0.001022	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ALABAMA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30° 0'	0.0000	30.790331	1468.8145	0.016365	17.995
	37313.4917	0.103962	255.1651	0.002980	3.193
30° 1'	1847.4199	30.790409	1469.7964	0.016371	18.010
	37319.7294	0.104049	255.3439	0.002983	3.197
30° 2'	3694.8444	30.790487	1470.7787	0.016376	18.027
	37325.9723	0.104136	255.5229	0.002987	3.201
30° 3'	5542.2737	30.790566	1471.7612	0.016381	18.043
	37332.2205	0.104224	255.7021	0.002991	3.205
30° 4'	7389.7076	30.790644	1472.7441	0.016387	18.059
	37338.4740	0.104312	255.8815	0.002994	3.209
30° 5'	9237.1462	30.790722	1473.7273	0.016392	18.075
	37344.7327	0.104399	256.0612	0.002998	3.214
30° 6'	11084.5896	30.790800	1474.7109	0.016398	18.091
	37350.9966	0.104487	256.2410	0.003002	3.218
30° 7'	12932.0376	30.790878	1475.6947	0.016403	18.107
	37357.2658	0.104575	256.4211	0.003005	3.222
30° 8'	14779.4902	30.790956	1476.6789	0.016409	18.123
	37363.5403	0.104663	256.6014	0.003009	3.226
30° 9'	16626.9476	30.791035	1477.6634	0.016414	18.139
	37369.8201	0.104751	256.7820	0.003013	3.231
30°10'	18474.4097	30.791113	1478.6483	0.016419	18.155
	37376.1051	0.104839	256.9627	0.003016	3.235
30°11'	20321.8765	30.791191	1479.6334	0.016425	18.171
	37382.3954	0.104927	257.1437	0.003020	3.239
30°12'	22169.3480	30.791270	1480.6189	0.016430	18.187
	37388.6910	0.105015	257.3249	0.003024	3.244
30°13'	24016.8241	30.791348	1481.6047	0.016436	18.203
	37394.9919	0.105103	257.5063	0.003027	3.248
30°14'	25864.3050	30.791426	1482.5909	0.016441	18.220
	37401.2981	0.105191	257.6879	0.003031	3.252
30°15'	27711.7906	30.791505	1483.5774	0.016447	18.236
	37407.6095	0.105279	257.8698	0.003035	3.257
30°16'	29559.2809	30.791583	1484.5642	0.016452	18.252
	37413.9263	0.105368	258.0519	0.003038	3.261
30°17'	31406.7759	30.791662	1485.5513	0.016458	18.268
	37420.2483	0.105456	258.2342	0.003042	3.265
30°18'	33254.2756	30.791740	1486.5388	0.016463	18.284
	37426.5757	0.105545	258.4167	0.003046	3.270
30°19'	35101.7800	30.791819	1487.5265	0.016469	18.301
	37432.9084	0.105633	258.5995	0.003050	3.274
30°20'	36949.2891	30.791897	1488.5147	0.016474	18.317
	37439.2464	0.105722	258.7825	0.003053	3.278
30°21'	38796.8029	30.791976	1489.5031	0.016480	18.333
	37445.5897	0.105810	258.9657	0.003057	3.283

Second difference corrections

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30°22'	40644.3215	30.792054	1490.4919	0.016485	18.349
	37451.9383	0.105899	259.1491	0.003061	3.287
30°23'	42491.8448	30.792133	1491.4810	0.016491	18.366
	37458.2922	0.105988	259.3327	0.003065	3.291
30°24'	44339.3727	30.792212	1492.4704	0.016496	18.382
	37464.6515	0.106077	259.5166	0.003068	3.296
30°25'	46186.9054	30.792290	1493.4602	0.016502	18.398
	37471.0161	0.106166	259.7007	0.003072	3.300
30°26'	48034.4429	30.792369	1494.4503	0.016507	18.415
	37477.3860	0.106255	259.8851	0.003076	3.305
30°27'	49881.9850	30.792448	1495.4407	0.016513	18.431
	37483.7613	0.106344	260.0696	0.003080	3.309
30°28'	51729.5319	30.792527	1496.4315	0.016518	18.447
	37490.1419	0.106433	260.2544	0.003083	3.313
30°29'	53577.0835	30.792605	1497.4226	0.016524	18.464
	37496.5279	0.106522	260.4394	0.003087	3.318
30°30'	55424.6398	30.792684	1498.4140	0.016529	18.480
	37502.9192	0.106611	260.6246	0.003091	3.322
30°31'	57272.2008	30.792763	1499.4058	0.016535	18.496
	37509.3159	0.106700	260.8101	0.003095	3.327
30°32'	59119.7666	30.792842	1500.3979	0.016541	18.513
	37515.7179	0.106790	260.9958	0.003099	3.331
30°33'	60967.3371	30.792921	1501.3903	0.016546	18.529
	37522.1253	0.106879	261.1817	0.003102	3.336
30°34'	62814.9124	30.793000	1502.3831	0.016552	18.546
	37528.5381	0.106969	261.3678	0.003106	3.340
30°35'	64662.4923	30.793079	1503.3762	0.016557	18.562
	37534.9562	0.107058	261.5542	0.003110	3.345
30°36'	66510.0770	30.793157	1504.3696	0.016563	18.579
	37541.3797	0.107148	261.7408	0.003114	3.349
30°37'	68357.6665	30.793236	1505.3634	0.016568	18.595
	37547.8086	0.107238	261.9277	0.003118	3.354
30°38'	70205.2607	30.793315	1506.3575	0.016574	18.612
	37554.2428	0.107327	262.1147	0.003122	3.358
30°39'	72052.8596	30.793394	1507.3519	0.016580	18.628
	37560.6825	0.107417	262.3020	0.003125	3.363
30°40'	73900.4633	30.793474	1508.3467	0.016585	18.645
	37567.1275	0.107507	262.4895	0.003129	3.367
30°41'	75748.0717	30.793553	1509.3418	0.016591	18.661
	37573.5779	0.107597	262.6773	0.003133	3.372
30°42'	77595.6848	30.793632	1510.3373	0.016596	18.678
	37580.0337	0.107687	262.8653	0.003137	3.376
30°43'	79443.3028	30.793711	1511.3331	0.016602	18.694
	37586.4950	0.107777	263.0535	0.003141	3.381

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30°44'	81290.9254	30.793790	1512.3292	0.016608	18.711
	37592.9616	0.107867	263.2419	0.003145	3.385
30°45'	83138.5528	30.793869	1513.3256	0.016613	18.727
	37599.4336	0.107957	263.4306	0.003148	3.390
30°46'	84986.1850	30.793948	1514.3224	0.016619	18.744
	37605.9111	0.108048	263.6195	0.003152	3.394
30°47'	86833.8219	30.794028	1515.3196	0.016625	18.761
	37612.3939	0.108138	263.8086	0.003156	3.399
30°48'	88681.4635	30.794107	1516.3171	0.016630	18.777
	37618.8822	0.108228	263.9980	0.003160	3.403
30°49'	90529.1099	30.794186	1517.3149	0.016636	18.794
	37625.3759	0.108319	264.1876	0.003164	3.408
30°50'	92376.7611	30.794266	1518.3130	0.016642	18.811
	37631.8751	0.108409	264.3775	0.003168	3.413
30°51'	94224.4170	30.794345	1519.3115	0.016647	18.827
	37638.3796	0.108500	264.5675	0.003172	3.417
30°52'	96072.0777	30.794424	1520.3104	0.016653	18.844
	37644.8896	0.108591	264.7578	0.003176	3.422
30°53'	97919.7432	30.794504	1521.3096	0.016659	18.861
	37651.4051	0.108681	264.9484	0.003180	3.426
30°54'	99767.4134	30.794583	1522.3091	0.016664	18.877
	37657.9260	0.108772	265.1392	0.003183	3.431
30°55'	101615.0884	30.794662	1523.3089	0.016670	18.894
	37664.4523	0.108863	265.3302	0.003187	3.436
30°56'	103462.7681	30.794742	1524.3091	0.016676	18.911
	37670.9841	0.108954	265.5214	0.003191	3.440
30°57'	105310.4527	30.794821	1525.3097	0.016681	18.928
	37677.5213	0.109045	265.7129	0.003195	3.445
30°58'	107158.1419	30.794901	1526.3106	0.016687	18.944
	37684.0640	0.109136	265.9046	0.003199	3.450
30°59'	109005.8360	30.794980	1527.3118	0.016693	18.961
	37690.6122	0.109227	266.0966	0.003203	3.454
31° 0'	110853.5348	30.795060	1528.3134	0.016699	18.978
	37697.1658	0.109318	266.2887	0.003207	3.459
31° 1'	112701.2384	30.795140	1529.3153	0.016704	18.995
	37703.7249	0.109410	266.4812	0.003211	3.464
31° 2'	114548.9468	30.795219	1530.3175	0.016710	19.012
	37710.2895	0.109501	266.6738	0.003215	3.468
31° 3'	116396.6600	30.795299	1531.3202	0.016716	19.029
	37716.8596	0.109592	266.8667	0.003219	3.473
31° 4'	118244.3779	30.795379	1532.3231	0.016722	19.045
	37723.4351	0.109684	267.0599	0.003223	3.478
31° 5'	120092.1006	30.795458	1533.3264	0.016727	19.062
	37730.0161	0.109775	267.2532	0.003227	3.482

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31° 6'	121939.8281	30.795538	1534.3300	0.016733	19.079
	37736.6027	0.109867	267.4469	0.003231	3.487
31° 7'	123787.5604	30.795618	1535.3340	0.016739	19.096
	37743.1947	0.109959	267.6407	0.003235	3.492
31° 8'	125635.2975	30.795697	1536.3384	0.016745	19.113
	37749.7922	0.110050	267.8348	0.003239	3.496
31° 9'	127483.0393	30.795777	1537.3430	0.016750	19.130
	37756.3952	0.110142	268.0291	0.003243	3.501
31°10'	129330.7859	30.795857	1538.3481	0.016756	19.147
	37763.0038	0.110234	268.2237	0.003247	3.506
31°11'	131178.5374	30.795937	1539.3534	0.016762	19.164
	37769.6178	0.110326	268.4185	0.003251	3.511
31°12'	133026.2936	30.796017	1540.3591	0.016768	19.181
	37776.2374	0.110418	268.6136	0.003255	3.515
31°13'	134874.0546	30.796097	1541.3652	0.016774	19.198
	37782.8624	0.110510	268.8088	0.003259	3.520
31°14'	136721.8204	30.796177	1542.3716	0.016779	19.215
	37789.4930	0.110602	269.0044	0.003263	3.525
31°15'	138569.5910	30.796256	1543.3784	0.016785	19.232
	37796.1292	0.110694	269.2001	0.003267	3.530
31°16'	140417.3664	30.796336	1544.3855	0.016791	19.249
	37802.7708	0.110787	269.3962	0.003271	3.535
31°17'	142265.1465	30.796416	1545.3930	0.016797	19.266
	37809.4180	0.110879	269.5924	0.003275	3.539
31°18'	144112.9315	30.796496	1546.4008	0.016803	19.283
	37816.0708	0.110971	269.7889	0.003279	3.544
31°19'	145960.7213	30.796576	1547.4089	0.016808	19.300
	37822.7290	0.111064	269.9857	0.003283	3.549
31°20'	147808.5159	30.796657	1548.4174	0.016814	19.317
	37829.3929	0.111156	270.1826	0.003287	3.554
31°21'	149656.3153	30.796737	1549.4263	0.016820	19.334
	37836.0622	0.111249	270.3799	0.003291	3.559
31°22'	151504.1195	30.796817	1550.4355	0.016826	19.351
	37842.7372	0.111342	270.5773	0.003295	3.564
31°23'	153351.9285	30.796897	1551.4451	0.016832	19.369
	37849.4177	0.111434	270.7750	0.003299	3.568
31°24'	155199.7423	30.796977	1552.4550	0.016838	19.386
	37856.1037	0.111527	270.9730	0.003303	3.573
31°25'	157047.5609	30.797057	1553.4652	0.016844	19.403
	37862.7954	0.111620	271.1712	0.003307	3.578
31°26'	158895.3844	30.797137	1554.4759	0.016850	19.420
	37869.4926	0.111713	271.3697	0.003312	3.583
31°27'	160743.2126	30.797218	1555.4868	0.016855	19.437
	37876.1954	0.111806	271.5683	0.003316	3.588

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°28'	162591.0457	30.797298	1556.4982	0.016861	19.455
	37882.9037	0.111899	271.7673	0.003320	3.593
31°29'	164438.8835	30.797378	1557.5098	0.016867	19.472
	37889.6177	0.111992	271.9665	0.003324	3.598
31°30'	166286.7262	30.797458	1558.5219	0.016873	19.489
	37896.3372	0.112086	272.1659	0.003328	3.603
31°31'	168134.5737	30.797539	1559.5342	0.016879	19.506
	37903.0623	0.112179	272.3656	0.003332	3.608
31°32'	169982.4261	30.797619	1560.5470	0.016885	19.524
	37909.7931	0.112272	272.5655	0.003336	3.613
31°33'	171830.2832	30.797699	1561.5601	0.016891	19.541
	37916.5294	0.112366	272.7657	0.003340	3.617
31°34'	173678.1452	30.797780	1562.5735	0.016897	19.558
	37923.2713	0.112459	272.9661	0.003344	3.622
31°35'	175526.0120	30.797860	1563.5873	0.016903	19.576
	37930.0189	0.112553	273.1668	0.003349	3.627
31°36'	177373.8836	30.797941	1564.6015	0.016909	19.593
	37936.7720	0.112646	273.3677	0.003353	3.632
31°37'	179221.7600	30.798021	1565.6160	0.016915	19.610
	37943.5308	0.112740	273.5688	0.003357	3.637
31°38'	181069.6413	30.798102	1566.6309	0.016921	19.628
	37950.2952	0.112834	273.7702	0.003361	3.642
31°39'	182917.5274	30.798182	1567.6461	0.016926	19.645
	37957.0652	0.112928	273.9719	0.003365	3.647
31°40'	184765.4183	30.798263	1568.6617	0.016932	19.662
	37963.8409	0.113022	274.1738	0.003369	3.652
31°41'	186613.3141	30.798343	1569.6776	0.016938	19.680
	37970.6222	0.113116	274.3760	0.003374	3.657
31°42'	188461.2147	30.798424	1570.6940	0.016944	19.697
	37977.4091	0.113210	274.5784	0.003378	3.662
31°43'	190309.1201	30.798505	1571.7106	0.016950	19.715
	37984.2017	0.113304	274.7810	0.003382	3.667
31°44'	192157.0304	30.798585	1572.7276	0.016956	19.732
	37990.9999	0.113398	274.9840	0.003386	3.672
31°45'	194004.9455	30.798666	1573.7450	0.016962	19.750
	37997.8038	0.113492	275.1871	0.003390	3.677
31°46'	195852.8655	30.798747	1574.7628	0.016968	19.767
	38004.6133	0.113587	275.3905	0.003394	3.682
31°47'	197700.7903	30.798827	1575.7809	0.016974	19.785
	38011.4285	0.113681	275.5942	0.003399	3.688
31°48'	199548.7199	30.798908	1576.7993	0.016980	19.802
	38018.2494	0.113775	275.7981	0.003403	3.693
31°49'	201396.6544	30.798989	1577.8181	0.016986	19.820
	38025.0759	0.113870	276.0023	0.003407	3.698

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°50'	203244.5937	30.799069	1578.8373	0.016992	19.837
	38031.9081	0.113965	276.2067	0.003411	3.703
31°51'	205092.5379	30.799150	1579.8569	0.016998	19.855
	38038.7460	0.114059	276.4114	0.003416	3.708
31°52'	206940.4869	30.799231	1580.8768	0.017004	19.872
	38045.5895	0.114154	276.6163	0.003420	3.713
31°53'	208788.4407	30.799312	1581.8970	0.017011	19.890
	38052.4388	0.114249	276.8215	0.003424	3.718
31°54'	210636.3995	30.799393	1582.9177	0.017017	19.908
	38059.2937	0.114344	277.0270	0.003428	3.723
31°55'	212484.3630	30.799474	1583.9387	0.017023	19.925
	38066.1543	0.114439	277.2327	0.003433	3.728
31°56'	214332.3314	30.799555	1584.9600	0.017029	19.943
	38073.0207	0.114534	277.4386	0.003437	3.734
31°57'	216180.3047	30.799636	1585.9817	0.017035	19.961
	38079.8927	0.114629	277.6448	0.003441	3.739
31°58'	218028.2829	30.799717	1587.0038	0.017041	19.978
	38086.7704	0.114724	277.8513	0.003445	3.744
31°59'	219876.2659	30.799798	1588.0263	0.017047	19.996
	38093.6539	0.114819	278.0580	0.003450	3.749
32° 0'	221724.2537	30.799879	1589.0491	0.017053	20.014
	38100.5430	0.114915	278.2650	0.003454	3.754
32° 1'	223572.2464	30.799960	1590.0723	0.017059	20.031
	38107.4379	0.115010	278.4722	0.003458	3.759
32° 2'	225420.2440	30.800041	1591.0958	0.017065	20.049
	38114.3385	0.115106	278.6797	0.003462	3.765
32° 3'	227268.2464	30.800122	1592.1197	0.017071	20.067
	38121.2448	0.115201	278.8875	0.003467	3.770
32° 4'	229116.2537	30.800203	1593.1440	0.017077	20.085
	38128.1569	0.115297	279.0955	0.003471	3.775
32° 5'	230964.2659	30.800284	1594.1686	0.017083	20.102
	38135.0747	0.115392	279.3037	0.003475	3.780
32° 6'	232812.2829	30.800365	1595.1936	0.017090	20.120
	38141.9983	0.115488	279.5122	0.003480	3.785
32° 7'	234660.3049	30.800446	1596.2190	0.017096	20.138
	38148.9276	0.115584	279.7210	0.003484	3.791
32° 8'	236508.3316	30.800527	1597.2448	0.017102	20.156
	38155.8626	0.115680	279.9301	0.003488	3.796
32° 9'	238356.3633	30.800609	1598.2709	0.017108	20.174
	38162.8034	0.115776	280.1394	0.003493	3.801
32°10'	240204.3998	30.800690	1599.2974	0.017114	20.192
	38169.7500	0.115872	280.3489	0.003497	3.806
32°11'	242052.4412	30.800771	1600.3242	0.017120	20.210
	38176.7023	0.115968	280.5588	0.003501	3.812

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°12'	243900.4875	30.800853	1601.3514	0.017126	20.227
	38183.6604	0.116064	280.7688	0.003506	3.817
32°13'	245748.5386	30.800934	1602.3790	0.017133	20.245
	38190.6242	0.116161	280.9792	0.003510	3.822
32°14'	247596.5947	30.801015	1603.4070	0.017139	20.263
	38197.5938	0.116257	281.1898	0.003514	3.828
32°15'	249444.6556	30.801097	1604.4353	0.017145	20.281
	38204.5693	0.116353	281.4007	0.003519	3.833
32°16'	251292.7214	30.801178	1605.4640	0.017151	20.299
	38211.5505	0.116450	281.6118	0.003523	3.838
32°17'	253140.7920	30.801259	1606.4931	0.017157	20.317
	38218.5374	0.116546	281.8232	0.003528	3.844
32°18'	254988.8676	30.801341	1607.5225	0.017164	20.335
	38225.5302	0.116643	282.0348	0.003532	3.849
32°19'	256836.9480	30.801422	1608.5523	0.017170	20.353
	38232.5288	0.116740	282.2468	0.003536	3.854
32°20'	258685.0334	30.801504	1609.5825	0.017176	20.371
	38239.5332	0.116836	282.4589	0.003541	3.860
32°21'	260533.1236	30.801585	1610.6131	0.017182	20.389
	38246.5434	0.116933	282.6714	0.003545	3.865
32°22'	262381.2187	30.801667	1611.6440	0.017188	20.407
	38253.5594	0.117030	282.8841	0.003550	3.870
32°23'	264229.3187	30.801748	1612.6753	0.017195	20.425
	38260.5812	0.117127	283.0971	0.003554	3.876
32°24'	266077.4236	30.801830	1613.7070	0.017201	20.444
	38267.6088	0.117224	283.3103	0.003558	3.881
32°25'	267925.5334	30.801911	1614.7391	0.017207	20.462
	38274.6423	0.117321	283.5238	0.003563	3.887
32°26'	269773.6481	30.801993	1615.7715	0.017213	20.480
	38281.6816	0.117419	283.7376	0.003567	3.892
32°27'	271621.7676	30.802075	1616.8043	0.017220	20.498
	38288.7267	0.117516	283.9516	0.003572	3.897
32°28'	273469.8921	30.802156	1617.8375	0.017226	20.516
	38295.7777	0.117613	284.1660	0.003576	3.903
32°29'	275318.0215	30.802238	1618.8710	0.017232	20.534
	38302.8345	0.117711	284.3805	0.003581	3.908
32°30'	277166.1558	30.802320	1619.9050	0.017238	20.552
	38309.8971	0.117808	284.5954	0.003585	3.914
32°31'	279014.2950	30.802401	1620.9393	0.017245	20.571
	38316.9656	0.117906	284.8105	0.003590	3.919
32°32'	280862.4390	30.802483	1621.9739	0.017251	20.589
	38324.0400	0.118004	285.0259	0.003594	3.925
32°33'	282710.5880	30.802565	1623.0090	0.017257	20.607
	38331.1202	0.118101	285.2415	0.003599	3.930

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°34'	284558.7419	30.802647	1624.0444	0.017264	20.625
	38338.2063	0.118199	285.4574	0.003603	3.936
32°35'	286406.9007	30.802729	1625.0803	0.017270	20.644
	38345.2982	0.118297	285.6736	0.003608	3.941
32°36'	288255.0644	30.802810	1626.1165	0.017276	20.662
	38352.3960	0.118395	285.8901	0.003612	3.947
32°37'	290103.2331	30.802892	1627.1530	0.017283	20.680
	38359.4997	0.118493	286.1068	0.003617	3.952
32°38'	291951.4066	30.802974	1628.1900	0.017289	20.699
	38366.6093	0.118591	286.3238	0.003621	3.958
32°39'	293799.5850	30.803056	1629.2273	0.017295	20.717
	38373.7248	0.118689	286.5411	0.003626	3.963
32°40'	295647.7684	30.803138	1630.2650	0.017302	20.735
	38380.8462	0.118788	286.7586	0.003630	3.969
32°41'	297495.9567	30.803220	1631.3031	0.017308	20.754
	38387.9734	0.118886	286.9764	0.003635	3.975
32°42'	299344.1499	30.803302	1632.3416	0.017314	20.772
	38395.1066	0.118984	287.1945	0.003639	3.980
32°43'	301192.3480	30.803384	1633.3805	0.017321	20.791
	38402.2456	0.119083	287.4128	0.003644	3.986
32°44'	303040.5510	30.803466	1634.4197	0.017327	20.809
	38409.3906	0.119181	287.6315	0.003648	3.991
32°45'	304888.7589	30.803548	1635.4593	0.017333	20.827
	38416.5415	0.119280	287.8504	0.003653	3.997
32°46'	306736.9718	30.803630	1636.4993	0.017340	20.846
	38423.6983	0.119379	288.0695	0.003657	4.003
32°47'	308585.1896	30.803712	1637.5397	0.017346	20.864
	38430.8610	0.119478	288.2890	0.003662	4.008
32°48'	310433.4123	30.803794	1638.5805	0.017353	20.883
	38438.0297	0.119576	288.5087	0.003667	4.014
32°49'	312281.6400	30.803876	1639.6216	0.017359	20.901
	38445.2043	0.119675	288.7287	0.003671	4.019
32°50'	314129.8726	30.803958	1640.6632	0.017365	20.920
	38452.3848	0.119774	288.9490	0.003676	4.025
32°51'	315978.1101	30.804041	1641.7051	0.017372	20.938
	38459.5713	0.119874	289.1695	0.003680	4.031
32°52'	317826.3525	30.804123	1642.7474	0.017378	20.957
	38466.7637	0.119973	289.3904	0.003685	4.036
32°53'	319674.5999	30.804205	1643.7901	0.017385	20.976
	38473.9620	0.120072	289.6115	0.003690	4.042
32°54'	321522.8521	30.804287	1644.8331	0.017391	20.994
	38481.1664	0.120171	289.8328	0.003694	4.048
32°55'	323371.1094	30.804369	1645.8766	0.017397	21.013
	38488.3766	0.120271	290.0545	0.003699	4.054

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°56'	325219.3715	30.804452	1646.9204	0.017404	21.031
	38495.5929	0.120370	290.2764	0.003704	4.059
32°57'	327067.6386	30.804534	1647.9647	0.017410	21.050
	38502.8151	0.120470	290.4986	0.003708	4.065
32°58'	328915.9107	30.804616	1649.0093	0.017417	21.069
	38510.0433	0.120569	290.7211	0.003713	4.071
32°59'	330764.1877	30.804699	1650.0543	0.017423	21.087
	38517.2775	0.120669	290.9439	0.003717	4.076
33° 0'	332612.4696	30.804781	1651.0997	0.017430	21.106
	38524.5176	0.120769	291.1669	0.003722	4.082
33° 1'	334460.7564	30.804863	1652.1455	0.017436	21.125
	38531.7637	0.120869	291.3903	0.003727	4.088
33° 2'	336309.0483	30.804946	1653.1917	0.017443	21.144
	38539.0159	0.120969	291.6139	0.003731	4.094
33° 3'	338157.3450	30.805028	1654.2382	0.017449	21.162
	38546.2740	0.121069	291.8378	0.003736	4.100
33° 4'	340005.6467	30.805111	1655.2852	0.017456	21.181
	38553.5381	0.121169	292.0619	0.003741	4.105
33° 5'	341853.9533	30.805193	1656.3325	0.017462	21.200
	38560.8082	0.121269	292.2864	0.003745	4.111
33° 6'	343702.2649	30.805276	1657.3802	0.017469	21.219
	38568.0844	0.121369	292.5111	0.003750	4.117
33° 7'	345550.5815	30.805358	1658.4284	0.017475	21.237
	38575.3665	0.121470	292.7361	0.003755	4.123
33° 8'	347398.9030	30.805441	1659.4769	0.017482	21.256
	38582.6547	0.121570	292.9614	0.003760	4.129
33° 9'	349247.2294	30.805523	1660.5258	0.017488	21.275
	38589.9489	0.121670	293.1870	0.003764	4.134
33°10'	351095.5608	30.805606	1661.5751	0.017495	21.294
	38597.2491	0.121771	293.4128	0.003769	4.140
33°11'	352943.8972	30.805688	1662.6248	0.017501	21.313
	38604.5554	0.121872	293.6390	0.003774	4.146
33°12'	354792.2385	30.805771	1663.6748	0.017508	21.332
	38611.8677	0.121972	293.8654	0.003779	4.152
33°13'	356640.5847	30.805854	1664.7253	0.017514	21.351
	38619.1860	0.122073	294.0921	0.003783	4.158
33°14'	358488.9360	30.805936	1665.7762	0.017521	21.370
	38626.5104	0.122174	294.3191	0.003788	4.164
33°15'	360337.2921	30.806019	1666.8274	0.017528	21.389
	38633.8409	0.122275	294.5464	0.003793	4.170
33°16'	362185.6533	30.806102	1667.8791	0.017534	21.408
	38641.1774	0.122376	294.7740	0.003798	4.176
33°17'	364034.0194	30.806185	1668.9312	0.017541	21.427
	38648.5200	0.122477	295.0018	0.003802	4.182

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°18'	365882.3905	30.806267	1669.9836	0.017547	21.446
	38655.8686	0.122578	295.2300	0.003807	4.188
33°19'	367730.7665	30.806350	1671.0364	0.017554	21.465
	38663.2233	0.122680	295.4584	0.003812	4.194
33°20'	369579.1475	30.806433	1672.0897	0.017561	21.484
	38670.5841	0.122781	295.6871	0.003817	4.200
33°21'	371427.5335	30.806516	1673.1433	0.017567	21.503
	38677.9509	0.122882	295.9161	0.003821	4.205
33°22'	373275.9244	30.806598	1674.1973	0.017574	21.522
	38685.3239	0.122984	296.1454	0.003826	4.211
33°23'	375124.3203	30.806681	1675.2518	0.017580	21.541
	38692.7029	0.123086	296.3750	0.003831	4.217
33°24'	376972.7212	30.806764	1676.3066	0.017587	21.560
	38700.0881	0.123187	296.6048	0.003836	4.223
33°25'	378821.1271	30.806847	1677.3618	0.017594	21.579
	38707.4793	0.123289	296.8350	0.003841	4.229
33°26'	380669.5379	30.806930	1678.4174	0.017600	21.598
	38714.8766	0.123391	297.0654	0.003846	4.236
33°27'	382517.9537	30.807013	1679.4735	0.017607	21.618
	38722.2801	0.123493	297.2962	0.003850	4.242
33°28'	384366.3745	30.807096	1680.5299	0.017614	21.637
	38729.6896	0.123595	297.5272	0.003855	4.248
33°29'	386214.8002	30.807179	1681.5867	0.017620	21.656
	38737.1053	0.123697	297.7585	0.003860	4.254
33°30'	388063.2310	30.807262	1682.6439	0.017627	21.675
	38744.5271	0.123799	297.9901	0.003865	4.260
33°31'	389911.6667	30.807345	1683.7015	0.017634	21.694
	38751.9551	0.123901	298.2220	0.003870	4.266
33°32'	391760.1074	30.807428	1684.7595	0.017640	21.714
	38759.3891	0.124003	298.4542	0.003875	4.272
33°33'	393608.5530	30.807511	1685.8180	0.017647	21.733
	38766.8293	0.124106	298.6867	0.003880	4.278
33°34'	395457.0037	30.807594	1686.8768	0.017654	21.752
	38774.2757	0.124208	298.9195	0.003884	4.284
33°35'	397305.4594	30.807677	1687.9360	0.017660	21.772
	38781.7282	0.124311	299.1525	0.003889	4.290
33°36'	399153.9200	30.807760	1688.9956	0.017667	21.791
	38789.1868	0.124413	299.3859	0.003894	4.296
33°37'	401002.3856	30.807844	1690.0557	0.017674	21.810
	38796.6517	0.124516	299.6196	0.003899	4.303
33°38'	402850.8562	30.807927	1691.1161	0.017681	21.830
	38804.1226	0.124619	299.8535	0.003904	4.309
33°39'	404699.3318	30.808010	1692.1769	0.017687	21.849
	38811.5998	0.124722	300.0878	0.003909	4.315

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°40'	406547.8124	30.808093	1693.2382	0.017694	21.868
	38819.0831	0.124825	300.3223	0.003914	4.321
33°41'	408396.2980	30.808176	1694.2998	0.017701	21.888
	38826.5726	0.124928	300.5571	0.003919	4.327
33°42'	410244.7886	30.808260	1695.3619	0.017708	21.907
	38834.0682	0.125031	300.7923	0.003924	4.333
33°43'	412093.2842	30.808343	1696.4243	0.017714	21.927
	38841.5701	0.125134	301.0277	0.003929	4.340
33°44'	413941.7847	30.808426	1697.4872	0.017721	21.946
	38849.0781	0.125237	301.2634	0.003934	4.346
33°45'	415790.2903	30.808509	1698.5505	0.017728	21.966
	38856.5924	0.125341	301.4995	0.003939	4.352
33°46'	417638.8009	30.808593	1699.6141	0.017735	21.985
	38864.1128	0.125444	301.7358	0.003944	4.358
33°47'	419487.3164	30.808676	1700.6782	0.017741	22.005
	38871.6395	0.125548	301.9724	0.003949	4.365
33°48'	421335.8370	30.808760	1701.7427	0.017748	22.024
	38879.1724	0.125651	302.2093	0.003954	4.371
33°49'	423184.3626	30.808843	1702.8076	0.017755	22.044
	38886.7114	0.125755	302.4466	0.003959	4.377
33°50'	425032.8931	30.808926	1703.8729	0.017762	22.064
	38894.2568	0.125859	302.6841	0.003964	4.384
33°51'	426881.4287	30.809010	1704.9386	0.017769	22.083
	38901.8083	0.125963	302.9219	0.003969	4.390
33°52'	428729.9693	30.809093	1706.0047	0.017776	22.103
	38909.3660	0.126067	303.1600	0.003974	4.396
33°53'	430578.5149	30.809177	1707.0713	0.017782	22.122
	38916.9300	0.126171	303.3984	0.003979	4.402
33°54'	432427.0655	30.809260	1708.1382	0.017789	22.142
	38924.5003	0.126275	303.6372	0.003984	4.409
33°55'	434275.6211	30.809344	1709.2056	0.017796	22.162
	38932.0768	0.126379	303.8762	0.003989	4.415
33°56'	436124.1817	30.809427	1710.2733	0.017803	22.181
	38939.6595	0.126483	304.1155	0.003994	4.422
33°57'	437972.7474	30.809511	1711.3415	0.017810	22.201
	38947.2485	0.126588	304.3552	0.003999	4.428
33°58'	439821.3180	30.809594	1712.4101	0.017817	22.221
	38954.8437	0.126692	304.5951	0.004004	4.434
33°59'	441669.8937	30.809678	1713.4791	0.017824	22.241
	38962.4453	0.126796	304.8353	0.004009	4.441
34° 0'	443518.4744	30.809762	1714.5485	0.017830	22.260
	38970.0531	0.126901	305.0759	0.004014	4.447
34° 1'	445367.0600	30.809845	1715.6183	0.017837	22.280
	38977.6671	0.127006	305.3167	0.004019	4.454

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34° 2'	447215.6508	30.809929	1716.6885	0.017844	22.300
	38985.2875	0.127111	305.5579	0.004024	4.460
34° 3'	449064.2465	30.810013	1717.7592	0.017851	22.320
	38992.9141	0.127215	305.7993	0.004029	4.466
34° 4'	450912.8472	30.810096	1718.8303	0.017858	22.340
	39000.5470	0.127320	306.0411	0.004035	4.473
34° 5'	452761.4530	30.810180	1719.9017	0.017865	22.360
	39008.1862	0.127425	306.2832	0.004040	4.479
34° 6'	454610.0638	30.810264	1720.9736	0.017872	22.380
	39015.8318	0.127530	306.5256	0.004045	4.486
34° 7'	456458.6796	30.810347	1722.0459	0.017879	22.399
	39023.4836	0.127636	306.7682	0.004050	4.492
34° 8'	458307.3005	30.810431	1723.1187	0.017886	22.419
	39031.1417	0.127741	307.0112	0.004055	4.499
34° 9'	460155.9264	30.810515	1724.1918	0.017893	22.439
	39038.8062	0.127846	307.2545	0.004060	4.505
34°10'	462004.5573	30.810599	1725.2654	0.017900	22.459
	39046.4769	0.127952	307.4981	0.004065	4.512
34°11'	463853.1932	30.810683	1726.3393	0.017907	22.479
	39054.1540	0.128057	307.7421	0.004070	4.518
34°12'	465701.8342	30.810767	1727.4137	0.017914	22.499
	39061.8375	0.128163	307.9863	0.004076	4.525
34°13'	467550.4801	30.810850	1728.4886	0.017921	22.519
	39069.5272	0.128268	308.2308	0.004081	4.531
34°14'	469399.1312	30.810934	1729.5638	0.017927	22.539
	39077.2233	0.128374	308.4757	0.004086	4.538
34°15'	471247.7872	30.811018	1730.6394	0.017934	22.559
	39084.9258	0.128480	308.7208	0.004091	4.545
34°16'	473096.4483	30.811102	1731.7155	0.017941	22.579
	39092.6346	0.128586	308.9663	0.004096	4.551
34°17'	474945.1144	30.811186	1732.7920	0.017948	22.600
	39100.3498	0.128692	309.2121	0.004102	4.558
34°18'	476793.7856	30.811270	1733.8689	0.017955	22.620
	39108.0713	0.128798	309.4582	0.004107	4.564
34°19'	478642.4618	30.811354	1734.9462	0.017963	22.640
	39115.7992	0.128904	309.7046	0.004112	4.571
34°20'	480491.1431	30.811438	1736.0240	0.017970	22.660
	39123.5334	0.129011	309.9513	0.004117	4.578
34°21'	482339.8293	30.811522	1737.1022	0.017977	22.680
	39131.2741	0.129117	310.1983	0.004122	4.584
34°22'	484188.5207	30.811606	1738.1807	0.017984	22.700
	39139.0211	0.129223	310.4457	0.004128	4.591
34°23'	486037.2170	30.811690	1739.2598	0.017991	22.721
	39146.7745	0.129330	310.6934	0.004133	4.598

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°24'	487885.9185	30.811774	1740.3392	0.017998	22.741
	39154.5343	0.129437	310.9413	0.004138	4.604
34°25'	489734.6249	30.811858	1741.4191	0.018005	22.761
	39162.3005	0.129543	311.1896	0.004143	4.611
34°26'	491583.3364	30.811943	1742.4993	0.018012	22.781
	39170.0731	0.129650	311.4382	0.004149	4.618
34°27'	493432.0530	30.812027	1743.5801	0.018019	22.802
	39177.8521	0.129757	311.6872	0.004154	4.625
34°28'	495280.7746	30.812111	1744.6612	0.018026	22.822
	39185.6375	0.129864	311.9364	0.004159	4.631
34°29'	497129.5012	30.812195	1745.7428	0.018033	22.842
	39193.4294	0.129971	312.1860	0.004165	4.638
34°30'	498978.2329	30.812279	1746.8247	0.018040	22.863
	39201.2276	0.130078	312.4358	0.004170	4.645
34°31'	500826.9697	30.812363	1747.9072	0.018047	22.883
	39209.0323	0.130185	312.6860	0.004175	4.652
34°32'	502675.7115	30.812448	1748.9900	0.018054	22.903
	39216.8434	0.130293	312.9365	0.004181	4.658
34°33'	504524.4584	30.812532	1750.0733	0.018062	22.924
	39224.6610	0.130400	313.1874	0.004186	4.665
34°34'	506373.2103	30.812616	1751.1569	0.018069	22.944
	39232.4850	0.130508	313.4385	0.004191	4.672
34°35'	508221.9673	30.812701	1752.2411	0.018076	22.965
	39240.3155	0.130615	313.6900	0.004197	4.679
34°36'	510070.7293	30.812785	1753.3256	0.018083	22.985
	39248.1524	0.130723	313.9418	0.004202	4.686
34°37'	511919.4964	30.812869	1754.4106	0.018090	23.006
	39255.9957	0.130831	314.1939	0.004207	4.693
34°38'	513768.2685	30.812954	1755.4960	0.018097	23.026
	39263.8456	0.130938	314.4463	0.004213	4.699
34°39'	515617.0457	30.813038	1756.5818	0.018104	23.047
	39271.7019	0.131046	314.6991	0.004218	4.706
34°40'	517465.8280	30.813122	1757.6681	0.018112	23.067
	39279.5647	0.131154	314.9522	0.004223	4.713
34°41'	519314.6154	30.813207	1758.7548	0.018119	23.088
	39287.4339	0.131262	315.2056	0.004229	4.720
34°42'	521163.4078	30.813291	1759.8419	0.018126	23.108
	39295.3097	0.131371	315.4593	0.004234	4.727
34°43'	523012.2052	30.813376	1760.9295	0.018133	23.129
	39303.1919	0.131479	315.7134	0.004240	4.734
34°44'	524861.0078	30.813460	1762.0175	0.018140	23.150
	39311.0806	0.131587	315.9677	0.004245	4.741
34°45'	526709.8154	30.813545	1763.1059	0.018148	23.170
	39318.9759	0.131696	316.2224	0.004250	4.748

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°46'	528558.6281	30.813629	1764.1947	0.018155	23.191
	39326.8776	0.131804	316.4774	0.004256	4.755
34°47'	530407.4458	30.813714	1765.2840	0.018162	23.212
	39334.7859	0.131913	316.7328	0.004261	4.762
34°48'	532256.2686	30.813798	1766.3737	0.018169	23.232
	39342.7006	0.132022	316.9885	0.004267	4.769
34°49'	534105.0965	30.813883	1767.4639	0.018176	23.253
	39350.6219	0.132130	317.2445	0.004272	4.776
34°50'	535953.9295	30.813967	1768.5545	0.018184	23.274
	39358.5498	0.132239	317.5008	0.004278	4.783
34°51'	537802.7675	30.814052	1769.6455	0.018191	23.295
	39366.4841	0.132348	317.7575	0.004283	4.790
34°52'	539651.6106	30.814137	1770.7370	0.018198	23.316
	39374.4250	0.132457	318.0145	0.004289	4.797
34°53'	541500.4588	30.814221	1771.8289	0.018205	23.336
	39382.3725	0.132566	318.2718	0.004294	4.804
34°54'	543349.3121	30.814306	1772.9212	0.018213	23.357
	39390.3264	0.132676	318.5294	0.004300	4.811
34°55'	545198.1705	30.814391	1774.0139	0.018220	23.378
	39398.2870	0.132785	318.7874	0.004305	4.818
34°56'	547047.0339	30.814475	1775.1072	0.018227	23.399
	39406.2541	0.132894	319.0457	0.004311	4.825
34°57'	548895.9024	30.814560	1776.2008	0.018235	23.420
	39414.2278	0.133004	319.3043	0.004316	4.832
34°58'	550744.7760	30.814645	1777.2949	0.018242	23.441
	39422.2080	0.133114	319.5633	0.004322	4.839
34°59'	552593.6547	30.814729	1778.3894	0.018249	23.462
	39430.1948	0.133223	319.8226	0.004327	4.847
35° 0'	554442.5384	30.814814	1779.4843	0.018257	23.483
	39438.1882	0.133333	320.0822	0.004333	4.854
35° 1'	556291.4273	30.814899	1780.5797	0.018264	23.504
	39446.1882	0.133443	320.3422	0.004338	4.861
35° 2'	558140.3212	30.814984	1781.6756	0.018271	23.525
	39454.1948	0.133553	320.6025	0.004344	4.868
35° 3'	559989.2203	30.815069	1782.7719	0.018279	23.546
	39462.2079	0.133663	320.8631	0.004349	4.875
35° 4'	561838.1244	30.815153	1783.8686	0.018286	23.567
	39470.2277	0.133773	321.1241	0.004355	4.882
35° 5'	563687.0336	30.815238	1784.9657	0.018293	23.588
	39478.2541	0.133883	321.3853	0.004361	4.890
35° 6'	565535.9479	30.815323	1786.0633	0.018301	23.609
	39486.2871	0.133994	321.6470	0.004366	4.897
35° 7'	567384.8673	30.815408	1787.1614	0.018308	23.630
	39494.3267	0.134104	321.9089	0.004372	4.904

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35° 8'	569233.7918	30.815493	1788.2599	0.018315	23.651
	39502.3730	0.134215	322.1713	0.004377	4.911
35° 9'	571082.7213	30.815578	1789.3588	0.018323	23.672
	39510.4259	0.134325	322.4339	0.004383	4.919
35°10'	572931.6560	30.815663	1790.4581	0.018330	23.693
	39518.4854	0.134436	322.6969	0.004389	4.926
35°11'	574780.5958	30.815748	1791.5580	0.018338	23.714
	39526.5515	0.134547	322.9602	0.004394	4.933
35°12'	576629.5406	30.815833	1792.6582	0.018345	23.736
	39534.6243	0.134658	323.2238	0.004400	4.941
35°13'	578478.4906	30.815918	1793.7589	0.018352	23.757
	39542.7038	0.134768	323.4878	0.004405	4.948
35°14'	580327.4457	30.816003	1794.8601	0.018360	23.778
	39550.7899	0.134880	323.7522	0.004411	4.955
35°15'	582176.4059	30.816088	1795.9617	0.018367	23.799
	39558.8826	0.134991	324.0168	0.004417	4.963
35°16'	584025.3711	30.816173	1797.0637	0.018375	23.821
	39566.9821	0.135102	324.2818	0.004422	4.970
35°17'	585874.3415	30.816258	1798.1662	0.018382	23.842
	39575.0882	0.135213	324.5472	0.004428	4.977
35°18'	587723.3170	30.816343	1799.2691	0.018390	23.863
	39583.2010	0.135325	324.8129	0.004434	4.985
35°19'	589572.2976	30.816428	1800.3725	0.018397	23.885
	39591.3205	0.135436	325.0789	0.004440	4.992
35°20'	591421.2833	30.816513	1801.4763	0.018405	23.906
	39599.4466	0.135548	325.3453	0.004445	4.999

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30° 0'	0.0000	30.790331	5000.0000	0.041983	2.983	
			18656.7458	0.208659	202.736	0.012334
30° 1'	1847.4199	30.790409	5002.5190	0.041976	2.983	
			18669.2654	0.208728	202.940	0.012334
30° 2'	3694.8444	30.790487	5005.0375	0.041968	2.984	
			18681.7891	0.208798	203.145	0.012334
30° 3'	5542.2737	30.790566	5007.5556	0.041961	2.984	
			18694.3170	0.208868	203.349	0.012334
30° 4'	7389.7076	30.790644	5010.0733	0.041954	2.985	
			18706.8491	0.208938	203.554	0.012334
30° 5'	9237.1462	30.790722	5012.5905	0.041947	2.985	
			18719.3853	0.209008	203.760	0.012334
30° 6'	11084.5896	30.790800	5015.1074	0.041940	2.986	
			18731.9258	0.209078	203.965	0.012334
30° 7'	12932.0376	30.790878	5017.6238	0.041933	2.986	
			18744.4705	0.209149	204.171	0.012334
30° 8'	14779.4902	30.790956	5020.1398	0.041926	2.987	
			18757.0195	0.209219	204.377	0.012334
30° 9'	16626.9476	30.791035	5022.6553	0.041919	2.987	
			18769.5726	0.209289	204.583	0.012334
30°10'	18474.4097	30.791113	5025.1705	0.041912	2.988	
			18782.1300	0.209360	204.789	0.012334
30°11'	20321.8765	30.791191	5027.6852	0.041905	2.988	
			18794.6915	0.209430	204.995	0.012333
30°12'	22169.3480	30.791270	5030.1995	0.041898	2.988	
			18807.2574	0.209501	205.202	0.012333
30°13'	24016.8241	30.791348	5032.7133	0.041891	2.989	
			18819.8274	0.209571	205.409	0.012333
30°14'	25864.3050	30.791426	5035.2268	0.041883	2.989	
			18832.4017	0.209642	205.616	0.012333
30°15'	27711.7906	30.791505	5037.7398	0.041876	2.990	
			18844.9802	0.209713	205.823	0.012333
30°16'	29559.2809	30.791583	5040.2524	0.041869	2.990	
			18857.5630	0.209784	206.031	0.012333
30°17'	31406.7759	30.791662	5042.7645	0.041862	2.991	
			18870.1500	0.209855	206.239	0.012333
30°18'	33254.2756	30.791740	5045.2762	0.041855	2.991	
			18882.7413	0.209926	206.447	0.012333
30°19'	35101.7800	30.791819	5047.7875	0.041848	2.992	
			18895.3369	0.209997	206.655	0.012333
30°20'	36949.2891	30.791897	5050.2984	0.041841	2.992	
			18907.9367	0.210068	206.863	0.012333
30°21'	38796.8029	30.791976	5052.8089	0.041834	2.993	
			18920.5407	0.210139	207.072	0.012333

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0005

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30°22'	40644.3215	30.792054	5055.3189	0.041827	2.993	
			18933.1491	0.210210	207.281	0.012333
30°23'	42491.8448	30.792133	5057.8285	0.041819	2.994	
			18945.7617	0.210282	207.490	0.012333
30°24'	44339.3727	30.792212	5060.3376	0.041812	2.994	
			18958.3786	0.210353	207.699	0.012333
30°25'	46186.9054	30.792290	5062.8464	0.041805	2.994	
			18970.9998	0.210425	207.908	0.012333
30°26'	48034.4429	30.792369	5065.3547	0.041798	2.995	
			18983.6253	0.210496	208.118	0.012333
30°27'	49881.9850	30.792448	5067.8626	0.041791	2.995	
			18996.2551	0.210568	208.328	0.012333
30°28'	51729.5319	30.792527	5070.3700	0.041784	2.996	
			19008.8892	0.210640	208.538	0.012333
30°29'	53577.0835	30.792605	5072.8770	0.041777	2.996	
			19021.5275	0.210711	208.748	0.012333
30°30'	55424.6398	30.792684	5075.3836	0.041769	2.997	
			19034.1702	0.210783	208.959	0.012333
30°31'	57272.2008	30.792763	5077.8898	0.041762	2.997	
			19046.8172	0.210855	209.169	0.012333
30°32'	59119.7666	30.792842	5080.3955	0.041755	2.997	
			19059.4685	0.210927	209.380	0.012333
30°33'	60967.3371	30.792921	5082.9008	0.041748	2.998	
			19072.1242	0.210999	209.591	0.012333
30°34'	62814.9124	30.793000	5085.4057	0.041741	2.998	
			19084.7841	0.211072	209.803	0.012333
30°35'	64662.4923	30.793079	5087.9101	0.041734	2.999	
			19097.4484	0.211144	210.014	0.012332
30°36'	66510.0770	30.793157	5090.4142	0.041726	2.999	
			19110.1171	0.211216	210.226	0.012332
30°37'	68357.6665	30.793236	5092.9177	0.041719	3.000	
			19122.7900	0.211288	210.438	0.012332
30°38'	70205.2607	30.793315	5095.4209	0.041712	3.000	
			19135.4673	0.211361	210.650	0.012332
30°39'	72052.8596	30.793394	5097.9236	0.041705	3.000	
			19148.1490	0.211433	210.863	0.012332
30°40'	73900.4633	30.793474	5100.4259	0.041698	3.001	
			19160.8350	0.211506	211.075	0.012332
30°41'	75748.0717	30.793553	5102.9278	0.041690	3.001	
			19173.5254	0.211579	211.288	0.012332
30°42'	77595.6848	30.793632	5105.4292	0.041683	3.002	
			19186.2201	0.211651	211.501	0.012332
30°43'	79443.3028	30.793711	5107.9302	0.041676	3.002	
			19198.9192	0.211724	211.715	0.012332

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0005

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30°44'	81290.9254	30.793790	5110.4307	0.041669	3.003	
			19211.6226	0.211797	211.928	0.012332
30°45'	83138.5528	30.793869	5112.9309	0.041662	3.003	
			19224.3305	0.211870	212.142	0.012332
30°46'	84986.1850	30.793948	5115.4306	0.041654	3.003	
			19237.0427	0.211943	212.356	0.012332
30°47'	86833.8219	30.794028	5117.9298	0.041647	3.004	
			19249.7592	0.212016	212.570	0.012332
30°48'	88681.4635	30.794107	5120.4286	0.041640	3.004	
			19262.4802	0.212089	212.785	0.012332
30°49'	90529.1099	30.794186	5122.9270	0.041633	3.005	
			19275.2056	0.212163	212.999	0.012332
30°50'	92376.7611	30.794266	5125.4250	0.041625	3.005	
			19287.9354	0.212236	213.214	0.012332
30°51'	94224.4170	30.794345	5127.9225	0.041618	3.005	
			19300.6695	0.212309	213.429	0.012332
30°52'	96072.0777	30.794424	5130.4196	0.041611	3.006	
			19313.4081	0.212383	213.645	0.012332
30°53'	97919.7432	30.794504	5132.9163	0.041604	3.006	
			19326.1511	0.212456	213.860	0.012332
30°54'	99767.4134	30.794583	5135.4125	0.041597	3.007	
			19338.8984	0.212530	214.076	0.012332
30°55'	101615.0884	30.794662	5137.9083	0.041589	3.007	
			19351.6503	0.212604	214.292	0.012332
30°56'	103462.7681	30.794742	5140.4037	0.041582	3.007	
			19364.4065	0.212678	214.508	0.012332
30°57'	105310.4527	30.794821	5142.8986	0.041575	3.008	
			19377.1671	0.212751	214.724	0.012332
30°58'	107158.1419	30.794901	5145.3931	0.041568	3.008	
			19389.9322	0.212825	214.941	0.012332
30°59'	109005.8360	30.794980	5147.8871	0.041560	3.009	
			19402.7018	0.212899	215.158	0.012331
31° 0'	110853.5348	30.795060	5150.3807	0.041553	3.009	
			19415.4757	0.212973	215.375	0.012331
31° 1'	112701.2384	30.795140	5152.8739	0.041546	3.009	
			19428.2541	0.213048	215.592	0.012331
31° 2'	114548.9468	30.795219	5155.3667	0.041538	3.010	
			19441.0370	0.213122	215.810	0.012331
31° 3'	116396.6600	30.795299	5157.8590	0.041531	3.010	
			19453.8243	0.213196	216.028	0.012331
31° 4'	118244.3779	30.795379	5160.3509	0.041524	3.011	
			19466.6161	0.213271	216.246	0.012331
31° 5'	120092.1006	30.795458	5162.8423	0.041517	3.011	
			19479.4123	0.213345	216.464	0.012331

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31° 6'	121939.8281	30.795538	5165.3333	0.041509	3.011	
			19492.2130	0.213420	216.682	0.012331
31° 7'	123787.5604	30.795618	5167.8239	0.041502	3.012	
			19505.0182	0.213494	216.901	0.012331
31° 8'	125635.2975	30.795697	5170.3140	0.041495	3.012	
			19517.8278	0.213569	217.120	0.012331
31° 9'	127483.0393	30.795777	5172.8037	0.041487	3.012	
			19530.6419	0.213644	217.339	0.012331
31°10'	129330.7859	30.795857	5175.2929	0.041480	3.013	
			19543.4606	0.213718	217.558	0.012331
31°11'	131178.5374	30.795937	5177.7817	0.041473	3.013	
			19556.2837	0.213793	217.778	0.012331
31°12'	133026.2936	30.796017	5180.2701	0.041466	3.014	
			19569.1113	0.213868	217.998	0.012331
31°13'	134874.0546	30.796097	5182.7580	0.041458	3.014	
			19581.9434	0.213943	218.218	0.012331
31°14'	136721.8204	30.796177	5185.2455	0.041451	3.014	
			19594.7800	0.214018	218.438	0.012331
31°15'	138569.5910	30.796256	5187.7326	0.041444	3.015	
			19607.6211	0.214094	218.658	0.012331
31°16'	140417.3664	30.796336	5190.2192	0.041436	3.015	
			19620.4667	0.214169	218.879	0.012331
31°17'	142265.1465	30.796416	5192.7054	0.041429	3.015	
			19633.3168	0.214244	219.100	0.012331
31°18'	144112.9315	30.796496	5195.1911	0.041422	3.016	
			19646.1715	0.214320	219.321	0.012331
31°19'	145960.7213	30.796576	5197.6764	0.041414	3.016	
			19659.0307	0.214395	219.543	0.012331
31°20'	147808.5159	30.796657	5200.1613	0.041407	3.016	
			19671.8944	0.214471	219.764	0.012331
31°21'	149656.3153	30.796737	5202.6457	0.041400	3.017	
			19684.7627	0.214547	219.986	0.012331
31°22'	151504.1195	30.796817	5205.1297	0.041392	3.017	
			19697.6354	0.214622	220.208	0.012330
31°23'	153351.9285	30.796897	5207.6132	0.041385	3.018	
			19710.5128	0.214698	220.431	0.012330
31°24'	155199.7423	30.796977	5210.0963	0.041378	3.018	
			19723.3947	0.214774	220.653	0.012330
31°25'	157047.5609	30.797057	5212.5790	0.041370	3.018	
			19736.2811	0.214850	220.876	0.012330
31°26'	158895.3844	30.797137	5215.0612	0.041363	3.019	
			19749.1721	0.214926	221.099	0.012330
31°27'	160743.2126	30.797218	5217.5430	0.041356	3.019	
			19762.0677	0.215002	221.322	0.012330

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°28'	162591.0457	30.797298	5220.0243	0.041348	3.019	
			19774.9678	0.215078	221.546	0.012330
31°29'	164438.8835	30.797378	5222.5052	0.041341	3.020	
			19787.8725	0.215155	221.770	0.012330
31°30'	166286.7262	30.797458	5224.9856	0.041333	3.020	
			19800.7818	0.215231	221.994	0.012330
31°31'	168134.5737	30.797539	5227.4657	0.041326	3.020	
			19813.6957	0.215307	222.218	0.012330
31°32'	169982.4261	30.797619	5229.9452	0.041319	3.021	
			19826.6141	0.215384	222.442	0.012330
31°33'	171830.2832	30.797699	5232.4243	0.041311	3.021	
			19839.5372	0.215461	222.667	0.012330
31°34'	173678.1452	30.797780	5234.9030	0.041304	3.021	
			19852.4648	0.215537	222.892	0.012330
31°35'	175526.0120	30.797860	5237.3813	0.041297	3.022	
			19865.3970	0.215614	223.117	0.012330
31°36'	177373.8836	30.797941	5239.8591	0.041289	3.022	
			19878.3339	0.215691	223.342	0.012330
31°37'	179221.7600	30.798021	5242.3364	0.041282	3.022	
			19891.2753	0.215768	223.568	0.012330
31°38'	181069.6413	30.798102	5244.8133	0.041274	3.023	
			19904.2214	0.215845	223.794	0.012330
31°39'	182917.5274	30.798182	5247.2898	0.041267	3.023	
			19917.1721	0.215922	224.020	0.012330
31°40'	184765.4183	30.798263	5249.7658	0.041260	3.023	
			19930.1274	0.215999	224.246	0.012330
31°41'	186613.3141	30.798343	5252.2414	0.041252	3.024	
			19943.0873	0.216076	224.473	0.012330
31°42'	188461.2147	30.798424	5254.7165	0.041245	3.024	
			19956.0519	0.216153	224.700	0.012330
31°43'	190309.1201	30.798505	5257.1912	0.041237	3.024	
			19969.0211	0.216231	224.927	0.012330
31°44'	192157.0304	30.798585	5259.6654	0.041230	3.025	
			19981.9949	0.216308	225.154	0.012330
31°45'	194004.9455	30.798666	5262.1392	0.041223	3.025	
			19994.9734	0.216386	225.381	0.012330
31°46'	195852.8655	30.798747	5264.6126	0.041215	3.025	
			20007.9566	0.216463	225.609	0.012329
31°47'	197700.7903	30.798827	5267.0855	0.041208	3.026	
			20020.9444	0.216541	225.837	0.012329
31°48'	199548.7199	30.798908	5269.5580	0.041200	3.026	
			20033.9368	0.216619	226.066	0.012329
31°49'	201396.6544	30.798989	5272.0300	0.041193	3.026	
			20046.9340	0.216697	226.294	0.012329

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°50'	203244.5937	30.799069	5274.5015	0.041185	3.026	
			20059.9358	0.216775	226.523	0.012329
31°51'	205092.5379	30.799150	5276.9727	0.041178	3.027	
			20072.9423	0.216853	226.752	0.012329
31°52'	206940.4869	30.799231	5279.4433	0.041170	3.027	
			20085.9534	0.216931	226.981	0.012329
31°53'	208788.4407	30.799312	5281.9136	0.041163	3.027	
			20098.9693	0.217009	227.210	0.012329
31°54'	210636.3995	30.799393	5284.3833	0.041156	3.028	
			20111.9898	0.217087	227.440	0.012329
31°55'	212484.3630	30.799474	5286.8527	0.041148	3.028	
			20125.0150	0.217165	227.670	0.012329
31°56'	214332.3314	30.799555	5289.3216	0.041141	3.028	
			20138.0449	0.217244	227.900	0.012329
31°57'	216180.3047	30.799636	5291.7900	0.041133	3.029	
			20151.0796	0.217322	228.131	0.012329
31°58'	218028.2829	30.799717	5294.2580	0.041126	3.029	
			20164.1189	0.217401	228.361	0.012329
31°59'	219876.2659	30.799798	5296.7255	0.041118	3.029	
			20177.1630	0.217479	228.592	0.012329
32° 0'	221724.2537	30.799879	5299.1926	0.041111	3.029	
			20190.2117	0.217558	228.823	0.012329
32° 1'	223572.2464	30.799960	5301.6593	0.041103	3.030	
			20203.2652	0.217637	229.055	0.012329
32° 2'	225420.2440	30.800041	5304.1255	0.041096	3.030	
			20216.3234	0.217716	229.286	0.012329
32° 3'	227268.2464	30.800122	5306.5912	0.041088	3.030	
			20229.3864	0.217795	229.518	0.012329
32° 4'	229116.2537	30.800203	5309.0565	0.041081	3.031	
			20242.4541	0.217874	229.751	0.012329
32° 5'	230964.2659	30.800284	5311.5214	0.041073	3.031	
			20255.5265	0.217953	229.983	0.012329
32° 6'	232812.2829	30.800365	5313.9858	0.041066	3.031	
			20268.6037	0.218032	230.216	0.012329
32° 7'	234660.3049	30.800446	5316.4497	0.041058	3.031	
			20281.6856	0.218111	230.448	0.012329
32° 8'	236508.3316	30.800527	5318.9133	0.041051	3.032	
			20294.7723	0.218191	230.682	0.012329
32° 9'	238356.3633	30.800609	5321.3763	0.041043	3.032	
			20307.8638	0.218270	230.915	0.012328
32°10'	240204.3998	30.800690	5323.8389	0.041036	3.032	
			20320.9600	0.218350	231.149	0.012328
32°11'	242052.4412	30.800771	5326.3011	0.041028	3.033	
			20334.0610	0.218429	231.382	0.012328

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°12'	243900.4875	30.800853	5328.7628	0.041021	3.033	
			20347.1667	0.218509	231.617	0.012328
32°13'	245748.5386	30.800934	5331.2240	0.041013	3.033	
			20360.2773	0.218589	231.851	0.012328
32°14'	247596.5947	30.801015	5333.6848	0.041006	3.033	
			20373.3926	0.218669	232.086	0.012328
32°15'	249444.6556	30.801097	5336.1452	0.040998	3.034	
			20386.5127	0.218749	232.321	0.012328
32°16'	251292.7214	30.801178	5338.6051	0.040991	3.034	
			20399.6376	0.218829	232.556	0.012328
32°17'	253140.7920	30.801259	5341.0645	0.040983	3.034	
			20412.7674	0.218909	232.791	0.012328
32°18'	254988.8676	30.801341	5343.5235	0.040976	3.035	
			20425.9019	0.218989	233.027	0.012328
32°19'	256836.9480	30.801422	5345.9820	0.040968	3.035	
			20439.0412	0.219069	233.263	0.012328
32°20'	258685.0334	30.801504	5348.4401	0.040961	3.035	
			20452.1854	0.219149	233.499	0.012328
32°21'	260533.1236	30.801585	5350.8978	0.040953	3.035	
			20465.3343	0.219230	233.735	0.012328
32°22'	262381.2187	30.801667	5353.3549	0.040946	3.036	
			20478.4881	0.219310	233.972	0.012328
32°23'	264229.3187	30.801748	5355.8117	0.040938	3.036	
			20491.6467	0.219391	234.209	0.012328
32°24'	266077.4236	30.801830	5358.2679	0.040930	3.036	
			20504.8102	0.219472	234.446	0.012328
32°25'	267925.5334	30.801911	5360.7238	0.040923	3.036	
			20517.9785	0.219552	234.683	0.012328
32°26'	269773.6481	30.801993	5363.1791	0.040915	3.037	
			20531.1516	0.219633	234.921	0.012328
32°27'	271621.7676	30.802075	5365.6341	0.040908	3.037	
			20544.3296	0.219714	235.159	0.012328
32°28'	273469.8921	30.802156	5368.0885	0.040900	3.037	
			20557.5124	0.219795	235.397	0.012328
32°29'	275318.0215	30.802238	5370.5425	0.040893	3.037	
			20570.7001	0.219876	235.635	0.012328
32°30'	277166.1558	30.802320	5372.9961	0.040885	3.038	
			20583.8927	0.219957	235.874	0.012328
32°31'	279014.2950	30.802401	5375.4492	0.040877	3.038	
			20597.0901	0.220038	236.113	0.012328
32°32'	280862.4390	30.802483	5377.9018	0.040870	3.038	
			20610.2925	0.220120	236.352	0.012327
32°33'	282710.5880	30.802565	5380.3540	0.040862	3.038	
			20623.4996	0.220201	236.592	0.012327

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°34'	284558.7419	30.802647	5382.8057	0.040855	3.039	
			20636.7117	0.220283	236.831	0.012327
32°35'	286406.9007	30.802729	5385.2570	0.040847	3.039	
			20649.9287	0.220364	237.071	0.012327
32°36'	288255.0644	30.802810	5387.7079	0.040839	3.039	
			20663.1505	0.220446	237.312	0.012327
32°37'	290103.2331	30.802892	5390.1582	0.040832	3.039	
			20676.3773	0.220528	237.552	0.012327
32°38'	291951.4066	30.802974	5392.6081	0.040824	3.039	
			20689.6089	0.220609	237.793	0.012327
32°39'	293799.5850	30.803056	5395.0576	0.040817	3.040	
			20702.8455	0.220691	238.034	0.012327
32°40'	295647.7684	30.803138	5397.5066	0.040809	3.040	
			20716.0870	0.220773	238.275	0.012327
32°41'	297495.9567	30.803220	5399.9551	0.040801	3.040	
			20729.3334	0.220855	238.517	0.012327
32°42'	299344.1499	30.803302	5402.4032	0.040794	3.040	
			20742.5847	0.220937	238.758	0.012327
32°43'	301192.3480	30.803384	5404.8508	0.040786	3.041	
			20755.8409	0.221020	239.001	0.012327
32°44'	303040.5510	30.803466	5407.2980	0.040779	3.041	
			20769.1021	0.221102	239.243	0.012327
32°45'	304888.7589	30.803548	5409.7447	0.040771	3.041	
			20782.3682	0.221184	239.485	0.012327
32°46'	306736.9718	30.803630	5412.1910	0.040763	3.041	
			20795.6393	0.221267	239.728	0.012327
32°47'	308585.1896	30.803712	5414.6368	0.040756	3.041	
			20808.9153	0.221349	239.971	0.012327
32°48'	310433.4123	30.803794	5417.0821	0.040748	3.042	
			20822.1963	0.221432	240.215	0.012327
32°49'	312281.6400	30.803876	5419.5270	0.040740	3.042	
			20835.4822	0.221515	240.458	0.012327
32°50'	314129.8726	30.803958	5421.9714	0.040733	3.042	
			20848.7731	0.221598	240.702	0.012327
32°51'	315978.1101	30.804041	5424.4154	0.040725	3.042	
			20862.0689	0.221681	240.946	0.012327
32°52'	317826.3525	30.804123	5426.8589	0.040717	3.043	
			20875.3698	0.221764	241.191	0.012327
32°53'	319674.5999	30.804205	5429.3019	0.040710	3.043	
			20888.6756	0.221847	241.436	0.012327
32°54'	321522.8521	30.804287	5431.7445	0.040702	3.043	
			20901.9864	0.221930	241.680	0.012327
32°55'	323371.1094	30.804369	5434.1866	0.040694	3.043	
			20915.3022	0.222013	241.926	0.012326

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0006	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°56'	325219.3715	30.804452	5436.6283	0.040687	3.043	
			20928.6229	0.222096	242.171	0.012326
32°57'	327067.6386	30.804534	5439.0695	0.040679	3.044	
			20941.9487	0.222180	242.417	0.012326
32°58'	328915.9107	30.804616	5441.5102	0.040671	3.044	
			20955.2795	0.222263	242.663	0.012326
32°59'	330764.1877	30.804699	5443.9505	0.040664	3.044	
			20968.6153	0.222347	242.909	0.012326
33° 0'	332612.4696	30.804781	5446.3904	0.040656	3.044	
			20981.9561	0.222430	243.156	0.012326
33° 1'	334460.7564	30.804863	5448.8297	0.040648	3.044	
			20995.3019	0.222514	243.403	0.012326
33° 2'	336309.0483	30.804946	5451.2686	0.040641	3.045	
			21008.6528	0.222598	243.650	0.012326
33° 3'	338157.3450	30.805028	5453.7071	0.040633	3.045	
			21022.0086	0.222682	243.897	0.012326
33° 4'	340005.6467	30.805111	5456.1450	0.040625	3.045	
			21035.3696	0.222766	244.145	0.012326
33° 5'	341853.9533	30.805193	5458.5826	0.040618	3.045	
			21048.7355	0.222850	244.393	0.012326
33° 6'	343702.2649	30.805276	5461.0196	0.040610	3.045	
			21062.1065	0.222934	244.641	0.012326
33° 7'	345550.5815	30.805358	5463.4562	0.040602	3.046	
			21075.4826	0.223018	244.889	0.012326
33° 8'	347398.9030	30.805441	5465.8923	0.040594	3.046	
			21088.8637	0.223103	245.138	0.012326
33° 9'	349247.2294	30.805523	5468.3280	0.040587	3.046	
			21102.2498	0.223187	245.387	0.012326
33°10'	351095.5608	30.805606	5470.7632	0.040579	3.046	
			21115.6411	0.223272	245.636	0.012326
33°11'	352943.8972	30.805688	5473.1980	0.040571	3.046	
			21129.0374	0.223356	245.886	0.012326
33°12'	354792.2385	30.805771	5475.6322	0.040564	3.046	
			21142.4387	0.223441	246.136	0.012326
33°13'	356640.5847	30.805854	5478.0661	0.040556	3.047	
			21155.8452	0.223526	246.386	0.012326
33°14'	358488.9360	30.805936	5480.4994	0.040548	3.047	
			21169.2567	0.223611	246.636	0.012326
33°15'	360337.2921	30.806019	5482.9323	0.040540	3.047	
			21182.6734	0.223696	246.887	0.012326
33°16'	362185.6533	30.806102	5485.3647	0.040533	3.047	
			21196.0951	0.223781	247.137	0.012326
33°17'	364034.0194	30.806185	5487.7967	0.040525	3.047	
			21209.5220	0.223866	247.389	0.012325

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0006

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°18'	365882.3905	30.806267	5490.2282	0.040517	3.047	
			21222.9539	0.223951	247.640	0.012325
33°19'	367730.7665	30.806350	5492.6592	0.040509	3.048	
			21236.3910	0.224036	247.892	0.012325
33°20'	369579.1475	30.806433	5495.0898	0.040502	3.048	
			21249.8331	0.224122	248.144	0.012325
33°21'	371427.5335	30.806516	5497.5199	0.040494	3.048	
			21263.2804	0.224207	248.396	0.012325
33°22'	373275.9244	30.806598	5499.9495	0.040486	3.048	
			21276.7329	0.224293	248.649	0.012325
33°23'	375124.3203	30.806681	5502.3787	0.040478	3.048	
			21290.1904	0.224378	248.901	0.012325
33°24'	376972.7212	30.806764	5504.8074	0.040471	3.048	
			21303.6531	0.224464	249.155	0.012325
33°25'	378821.1271	30.806847	5507.2356	0.040463	3.049	
			21317.1210	0.224550	249.408	0.012325
33°26'	380669.5379	30.806930	5509.6634	0.040455	3.049	
			21330.5939	0.224636	249.662	0.012325
33°27'	382517.9537	30.807013	5512.0907	0.040447	3.049	
			21344.0721	0.224722	249.916	0.012325
33°28'	384366.3745	30.807096	5514.5176	0.040440	3.049	
			21357.5554	0.224808	250.170	0.012325
33°29'	386214.8002	30.807179	5516.9439	0.040432	3.049	
			21371.0439	0.224894	250.424	0.012325
33°30'	388063.2310	30.807262	5519.3699	0.040424	3.049	
			21384.5375	0.224980	250.679	0.012325
33°31'	389911.6667	30.807345	5521.7953	0.040416	3.050	
			21398.0363	0.225067	250.934	0.012325
33°32'	391760.1074	30.807428	5524.2203	0.040408	3.050	
			21411.5403	0.225153	251.190	0.012325
33°33'	393608.5530	30.807511	5526.6448	0.040401	3.050	
			21425.0495	0.225240	251.445	0.012325
33°34'	395457.0037	30.807594	5529.0688	0.040393	3.050	
			21438.5639	0.225326	251.701	0.012325
33°35'	397305.4594	30.807677	5531.4924	0.040385	3.050	
			21452.0834	0.225413	251.957	0.012325
33°36'	399153.9200	30.807760	5533.9155	0.040377	3.050	
			21465.6082	0.225500	252.214	0.012325
33°37'	401002.3856	30.807844	5536.3381	0.040369	3.050	
			21479.1382	0.225586	252.471	0.012325
33°38'	402850.8562	30.807927	5538.7603	0.040362	3.051	
			21492.6734	0.225673	252.728	0.012325
33°39'	404699.3318	30.808010	5541.1820	0.040354	3.051	
			21506.2138	0.225761	252.985	0.012325

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°40'	406547.8124	30.808093	5543.6032	0.040346	3.051	
			21519.7594	0.225848	253.243	0.012324
33°41'	408396.2980	30.808176	5546.0240	0.040338	3.051	
			21533.3103	0.225935	253.500	0.012324
33°42'	410244.7886	30.808260	5548.4443	0.040330	3.051	
			21546.8664	0.226022	253.759	0.012324
33°43'	412093.2842	30.808343	5550.8641	0.040323	3.051	
			21560.4277	0.226110	254.017	0.012324
33°44'	413941.7847	30.808426	5553.2834	0.040315	3.051	
			21573.9943	0.226197	254.276	0.012324
33°45'	415790.2903	30.808509	5555.7023	0.040307	3.051	
			21587.5661	0.226285	254.535	0.012324
33°46'	417638.8009	30.808593	5558.1207	0.040299	3.052	
			21601.1432	0.226372	254.794	0.012324
33°47'	419487.3164	30.808676	5560.5387	0.040291	3.052	
			21614.7255	0.226460	255.054	0.012324
33°48'	421335.8370	30.808760	5562.9562	0.040283	3.052	
			21628.3131	0.226548	255.314	0.012324
33°49'	423184.3626	30.808843	5565.3732	0.040275	3.052	
			21641.9060	0.226636	255.574	0.012324
33°50'	425032.8931	30.808926	5567.7897	0.040268	3.052	
			21655.5042	0.226724	255.834	0.012324
33°51'	426881.4287	30.809010	5570.2057	0.040260	3.052	
			21669.1076	0.226812	256.095	0.012324
33°52'	428729.9693	30.809093	5572.6213	0.040252	3.052	
			21682.7163	0.226900	256.356	0.012324
33°53'	430578.5149	30.809177	5575.0364	0.040244	3.052	
			21696.3303	0.226989	256.618	0.012324
33°54'	432427.0655	30.809260	5577.4511	0.040236	3.053	
			21709.9497	0.227077	256.879	0.012324
33°55'	434275.6211	30.809344	5579.8653	0.040228	3.053	
			21723.5743	0.227165	257.141	0.012324
33°56'	436124.1817	30.809427	5582.2790	0.040220	3.053	
			21737.2042	0.227254	257.403	0.012324
33°57'	437972.7474	30.809511	5584.6922	0.040213	3.053	
			21750.8394	0.227343	257.666	0.012324
33°58'	439821.3180	30.809594	5587.1049	0.040205	3.053	
			21764.4800	0.227431	257.929	0.012324
33°59'	441669.8937	30.809678	5589.5172	0.040197	3.053	
			21778.1259	0.227520	258.192	0.012324
34° 0'	443518.4744	30.809762	5591.9290	0.040189	3.053	
			21791.7771	0.227609	258.455	0.012324
34° 1'	445367.0600	30.809845	5594.3404	0.040181	3.053	
			21805.4337	0.227698	258.719	0.012324

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34° 2'	447215.6508	30.809929	5596.7512	0.040173	3.053	
			21819.0956	0.227787	258.983	0.012323
34° 3'	449064.2465	30.810013	5599.1616	0.040165	3.053	
			21832.7628	0.227877	259.247	0.012323
34° 4'	450912.8472	30.810096	5601.5715	0.040157	3.054	
			21846.4354	0.227966	259.512	0.012323
34° 5'	452761.4530	30.810180	5603.9810	0.040149	3.054	
			21860.1134	0.228055	259.777	0.012323
34° 6'	454610.0638	30.810264	5606.3899	0.040142	3.054	
			21873.7967	0.228145	260.042	0.012323
34° 7'	456458.6796	30.810347	5608.7984	0.040134	3.054	
			21887.4854	0.228234	260.307	0.012323
34° 8'	458307.3005	30.810431	5611.2065	0.040126	3.054	
			21901.1794	0.228324	260.573	0.012323
34° 9'	460155.9264	30.810515	5613.6140	0.040118	3.054	
			21914.8789	0.228414	260.839	0.012323
34°10'	462004.5573	30.810599	5616.0211	0.040110	3.054	
			21928.5837	0.228504	261.106	0.012323
34°11'	463853.1932	30.810683	5618.4277	0.040102	3.054	
			21942.2939	0.228594	261.372	0.012323
34°12'	465701.8342	30.810767	5620.8338	0.040094	3.054	
			21956.0095	0.228684	261.639	0.012323
34°13'	467550.4801	30.810850	5623.2394	0.040086	3.054	
			21969.7306	0.228774	261.906	0.012323
34°14'	469399.1312	30.810934	5625.6446	0.040078	3.054	
			21983.4570	0.228864	262.174	0.012323
34°15'	471247.7872	30.811018	5628.0493	0.040070	3.055	
			21997.1888	0.228954	262.442	0.012323
34°16'	473096.4483	30.811102	5630.4535	0.040062	3.055	
			22010.9261	0.229045	262.710	0.012323
34°17'	474945.1144	30.811186	5632.8572	0.040054	3.055	
			22024.6688	0.229135	262.978	0.012323
34°18'	476793.7856	30.811270	5635.2605	0.040046	3.055	
			22038.4169	0.229226	263.247	0.012323
34°19'	478642.4618	30.811354	5637.6633	0.040038	3.055	
			22052.1704	0.229317	263.516	0.012323
34°20'	480491.1431	30.811438	5640.0656	0.040030	3.055	
			22065.9294	0.229407	263.786	0.012323
34°21'	482339.8293	30.811522	5642.4674	0.040023	3.055	
			22079.6939	0.229498	264.055	0.012323
34°22'	484188.5207	30.811606	5644.8688	0.040015	3.055	
			22093.4638	0.229589	264.325	0.012323
34°23'	486037.2170	30.811690	5647.2696	0.040007	3.055	
			22107.2391	0.229680	264.596	0.012323

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°24'	487885.9185	30.811774	5649.6700	0.039999	3.055	
			22121.0199	0.229771	264.866	0.012323
34°25'	489734.6249	30.811858	5652.0700	0.039991	3.055	
			22134.8062	0.229863	265.137	0.012322
34°26'	491583.3364	30.811943	5654.4694	0.039983	3.055	
			22148.5979	0.229954	265.408	0.012322
34°27'	493432.0530	30.812027	5656.8684	0.039975	3.055	
			22162.3952	0.230045	265.680	0.012322
34°28'	495280.7746	30.812111	5659.2668	0.039967	3.055	
			22176.1979	0.230137	265.952	0.012322
34°29'	497129.5012	30.812195	5661.6648	0.039959	3.055	
			22190.0061	0.230228	266.224	0.012322
34°30'	498978.2329	30.812279	5664.0624	0.039951	3.056	
			22203.8198	0.230320	266.496	0.012322
34°31'	500826.9697	30.812363	5666.4594	0.039943	3.056	
			22217.6390	0.230412	266.769	0.012322
34°32'	502675.7115	30.812448	5668.8560	0.039935	3.056	
			22231.4638	0.230504	267.042	0.012322
34°33'	504524.4584	30.812532	5671.2521	0.039927	3.056	
			22245.2940	0.230596	267.315	0.012322
34°34'	506373.2103	30.812616	5673.6477	0.039919	3.056	
			22259.1297	0.230688	267.589	0.012322
34°35'	508221.9673	30.812701	5676.0428	0.039911	3.056	
			22272.9710	0.230780	267.863	0.012322
34°36'	510070.7293	30.812785	5678.4375	0.039903	3.056	
			22286.8178	0.230872	268.137	0.012322
34°37'	511919.4964	30.812869	5680.8316	0.039895	3.056	
			22300.6702	0.230965	268.412	0.012322
34°38'	513768.2685	30.812954	5683.2253	0.039887	3.056	
			22314.5281	0.231057	268.687	0.012322
34°39'	515617.0457	30.813038	5685.6185	0.039879	3.056	
			22328.3915	0.231150	268.962	0.012322
34°40'	517465.8280	30.813122	5688.0112	0.039871	3.056	
			22342.2605	0.231243	269.237	0.012322
34°41'	519314.6154	30.813207	5690.4035	0.039863	3.056	
			22356.1350	0.231335	269.513	0.012322
34°42'	521163.4078	30.813291	5692.7952	0.039855	3.056	
			22370.0152	0.231428	269.789	0.012322
34°43'	523012.2052	30.813376	5695.1865	0.039847	3.056	
			22383.9008	0.231521	270.066	0.012322
34°44'	524861.0078	30.813460	5697.5773	0.039839	3.056	
			22397.7921	0.231614	270.343	0.012322
34°45'	526709.8154	30.813545	5699.9676	0.039831	3.056	
			22411.6890	0.231707	270.620	0.012322

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°46'	528558.6281	30.813629	5702.3575	0.039823	3.056	
			22425.5914	0.231800	270.897	0.012322
34°47'	530407.4458	30.813714	5704.7468	0.039814	3.056	
			22439.4994	0.231894	271.175	0.012321
34°48'	532256.2686	30.813798	5707.1357	0.039806	3.056	
			22453.4130	0.231987	271.453	0.012321
34°49'	534105.0965	30.813883	5709.5241	0.039798	3.056	
			22467.3323	0.232081	271.731	0.012321
34°50'	535953.9295	30.813967	5711.9120	0.039790	3.056	
			22481.2571	0.232174	272.010	0.012321
34°51'	537802.7675	30.814052	5714.2994	0.039782	3.056	
			22495.1876	0.232268	272.289	0.012321
34°52'	539651.6106	30.814137	5716.6863	0.039774	3.056	
			22509.1237	0.232362	272.568	0.012321
34°53'	541500.4588	30.814221	5719.0728	0.039766	3.056	
			22523.0654	0.232456	272.848	0.012321
34°54'	543349.3121	30.814306	5721.4587	0.039758	3.056	
			22537.0127	0.232550	273.128	0.012321
34°55'	545198.1705	30.814391	5723.8442	0.039750	3.056	
			22550.9657	0.232644	273.408	0.012321
34°56'	547047.0339	30.814475	5726.2292	0.039742	3.056	
			22564.9243	0.232738	273.688	0.012321
34°57'	548895.9024	30.814560	5728.6137	0.039734	3.056	
			22578.8886	0.232832	273.969	0.012321
34°58'	550744.7760	30.814645	5730.9978	0.039726	3.056	
			22592.8586	0.232927	274.251	0.012321
34°59'	552593.6547	30.814729	5733.3813	0.039718	3.056	
			22606.8342	0.233021	274.532	0.012321
35° 0'	554442.5384	30.814814	5735.7644	0.039710	3.056	
			22620.8155	0.233116	274.814	0.012321
35° 1'	556291.4273	30.814899	5738.1469	0.039701	3.056	
			22634.8024	0.233210	275.096	0.012321
35° 2'	558140.3212	30.814984	5740.5290	0.039693	3.056	
			22648.7950	0.233305	275.379	0.012321
35° 3'	559989.2203	30.815069	5742.9106	0.039685	3.056	
			22662.7933	0.233400	275.662	0.012321
35° 4'	561838.1244	30.815153	5745.2917	0.039677	3.056	
			22676.7974	0.233495	275.945	0.012321
35° 5'	563687.0336	30.815238	5747.6724	0.039669	3.056	
			22690.8071	0.233590	276.228	0.012321
35° 6'	565535.9479	30.815323	5750.0525	0.039661	3.056	
			22704.8225	0.233685	276.512	0.012321
35° 7'	567384.8673	30.815408	5752.4322	0.039653	3.056	
			22718.8436	0.233781	276.796	0.012321

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ALABAMA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35° 8'	569233.7918	30.815493	5754.8113	0.039645	3.056	
			22732.8704	0.233876	277.081	0.012321
35° 9'	571082.7213	30.815578	5757.1900	0.039637	3.056	
			22746.9030	0.233971	277.365	0.012320
35°10'	572931.6560	30.815663	5759.5682	0.039628	3.056	
			22760.9413	0.234067	277.650	0.012320
35°11'	574780.5958	30.815748	5761.9459	0.039620	3.056	
			22774.9853	0.234163	277.936	0.012320
35°12'	576629.5406	30.815833	5764.3232	0.039612	3.056	
			22789.0351	0.234258	278.222	0.012320
35°13'	578478.4906	30.815918	5766.6999	0.039604	3.056	
			22803.0906	0.234354	278.508	0.012320
35°14'	580327.4457	30.816003	5769.0761	0.039596	3.056	
			22817.1518	0.234450	278.794	0.012320
35°15'	582176.4059	30.816088	5771.4519	0.039588	3.056	
			22831.2188	0.234546	279.081	0.012320
35°16'	584025.3711	30.816173	5773.8272	0.039580	3.056	
			22845.2916	0.234642	279.368	0.012320
35°17'	585874.3415	30.816258	5776.2020	0.039572	3.056	
			22859.3702	0.234739	279.655	0.012320
35°18'	587723.3170	30.816343	5778.5762	0.039563	3.056	
			22873.4545	0.234835	279.943	0.012320
35°19'	589572.2976	30.816428	5780.9500	0.039555	3.056	
			22887.5446	0.234932	280.231	0.012320
35°20'	591421.2833	30.816513	5783.3234	0.039547	3.056	
			22901.6405	0.235028	280.520	0.012320

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

TRANSVERSE MERCATOR PROJECTION

TABLES FOR ALASKA COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 2
ZONE CODE: 5002

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 142° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  54°15'23".54600
  LONGITUDE: 142°12'43".75500

     p = 10^-4 Δλ  =  -0.07637550
TABULAR  (   I) =   27824.0498
   23.54600 sec =     727.9552
   SECOND DIFF  =      -0.0006
         (   I) =   28552.0044
TABULAR  (  II) =    3561.6916
   23.54600 sec =      -0.2710
         (  II) =    3561.4208
TABULAR  ( III) =       0.7361
 N = (I) + (II)p^2 + (III)p^4 =  28572.779 m


TABULAR  (  IV) =  181043.6634
   23.54600 sec =     -28.6453
   SECOND DIFF  =       0.0018
         (  IV) =  181015.0199
TABULAR  (   V) =     -22.4482
   23.54600 sec =      -0.0118
         (   V) =     -22.4601
TABULAR  (  VI) =      -0.0255
 E' = (IV)p +(V)p^3 + (VI)p^5 = -13825.103 m
 E = E0 + E' =                 486174.897 m


TABULAR  ( XII) =    8115.7398
   23.54600 sec =       0.6668
         ( XII) =    8116.4066
TABULAR  (XIII) =       2.1855
C = (XII)p + (XIII)p^3 =     -619".90


  q  = 10^-6 E'   =  -0.01382510
TABULAR  ( XVI) =     0.012267
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99990234
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 142°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 3
ZONE CODE: 5003

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 146° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  54°15'23".54600
  LONGITUDE: 146°12'43".75500

     p = 10^-4 Δλ  =  -0.07637550
TABULAR  (   I) =   27824.0498
   23.54600 sec =     727.9552
   SECOND DIFF  =      -0.0006
         (   I) =   28552.0044
TABULAR  (  II) =    3561.6916
   23.54600 sec =      -0.2710
         (  II) =    3561.4208
TABULAR  ( III) =       0.7361
 N = (I) + (II)p^2 + (III)p^4 =  28572.779 m


TABULAR  (  IV) =  181043.6634
   23.54600 sec =     -28.6453
   SECOND DIFF  =       0.0018
         (  IV) =  181015.0199
TABULAR  (   V) =     -22.4482
   23.54600 sec =      -0.0118
         (   V) =     -22.4601
TABULAR  (  VI) =      -0.0255
 E' = (IV)p +(V)p^3 + (VI)p^5 = -13825.103 m
 E = E0 + E' =                 486174.897 m


TABULAR  ( XII) =    8115.7398
   23.54600 sec =       0.6668
         ( XII) =    8116.4066
TABULAR  (XIII) =       2.1855
C = (XII)p + (XIII)p^3 =     -619".90


  q  = 10^-6 E'   =  -0.01382510
TABULAR  ( XVI) =     0.012267
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99990234
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

```
TABULAR  ( VII) =    3514.8173
   24.21796 sec =       0.8654
         ( VII) =    3515.6827
TABULAR  (VIII) =      77.0817
   24.21796 sec =       0.0394
         (VIII) =      77.1211
```

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

```
TABULAR  (  IX) =   55235.2941
   24.21796 sec =       8.9925
   SECOND DIFF  =      -0.0027
         (  IX) =   55244.2839
TABULAR  (   X) =    1095.4925
   24.21796 sec =       0.6085
         (   X) =    1096.1011
TABULAR  (  XI) =      40.9383
   24.21796 sec =       0.0384
         (  XI) =      40.9768
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 146°12'43''.75500$

```
TABULAR  ( XIV) =   44827.5276
   24.21796 sec =      11.0879
   SECOND DIFF  =      -0.0027
         ( XIV) =   44838.6128
TABULAR  (  XV) =    1070.6903
   24.21796 sec =       0.6143
         (  XV) =    1071.3046
```

$C = (XIV)q - (XV)q^3 = -619''.90$

```
TABULAR  ( XVI) =     0.012267
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 4
ZONE CODE: 5004

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 150° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 54°15'23".54600
LONGITUDE: 150°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.07637550
TABULAR (I) = 27824.0498
23.54600 sec = 727.9552
SECOND DIFF = -0.0006
(I) = 28552.0044
TABULAR (II) = 3561.6916
23.54600 sec = -0.2710
(II) = 3561.4208
TABULAR (III) = 0.7361
$N = (I) + (II)p^2 + (III)p^4$ = 28572.779 m

TABULAR (IV) = 181043.6634
23.54600 sec = -28.6453
SECOND DIFF = 0.0018
(IV) = 181015.0199
TABULAR (V) = -22.4482
23.54600 sec = -0.0118
(V) = -22.4601
TABULAR (VI) = -0.0255
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -13825.103 m
$E = E_0 + E'$ = 486174.897 m

TABULAR (XII) = 8115.7398
23.54600 sec = 0.6668
(XII) = 8116.4066
TABULAR (XIII) = 2.1855
$C = (XII)p + (XIII)p^3$ = -619".90

$q = 10^{-6} E'$ = -0.01382510
TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99990234

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 150°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 5
ZONE CODE: 5005

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 154° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  54°15'23".54600
  LONGITUDE: 154°12'43".75500

     p = 10^-4 Δλ  =  -0.07637550
TABULAR  (   I) =   27824.0498
   23.54600 sec =     727.9552
   SECOND DIFF  =      -0.0006
         (   I) =   28552.0044
TABULAR  (  II) =    3561.6916
   23.54600 sec =      -0.2710
         (  II) =    3561.4208
TABULAR  ( III) =       0.7361
 N = (I) + (II)p^2 + (III)p^4 =  28572.779 m


TABULAR  (  IV) =  181043.6634
   23.54600 sec =     -28.6453
   SECOND DIFF  =       0.0018
         (  IV) =  181015.0199
TABULAR  (   V) =     -22.4482
   23.54600 sec =      -0.0118
         (   V) =     -22.4601
TABULAR  (  VI) =      -0.0255
 E' = (IV)p +(V)p^3 + (VI)p^5 = -13825.103 m
 E = E0 + E' =                 486174.897 m


TABULAR  ( XII) =    8115.7398
   23.54600 sec =       0.6668
         ( XII) =    8116.4066
TABULAR  (XIII) =       2.1855
C = (XII)p + (XIII)p^3 =     -619".90


  q  = 10^-6 E'   =  -0.01382510
TABULAR  ( XVI) =     0.012267
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99990234
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 154°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 6
ZONE CODE: 5006

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 158° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 54°15'23".54600
LONGITUDE: 158°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.07637550
TABULAR (I) = 27824.0498
23.54600 sec = 727.9552
SECOND DIFF = -0.0006
(I) = 28552.0044
TABULAR (II) = 3561.6916
23.54600 sec = -0.2710
(II) = 3561.4208
TABULAR (III) = 0.7361
$N = (I) + (II)p^2 + (III)p^4$ = 28572.779 m

TABULAR (IV) = 181043.6634
23.54600 sec = -28.6453
SECOND DIFF = 0.0018
(IV) = 181015.0199
TABULAR (V) = -22.4482
23.54600 sec = -0.0118
(V) = -22.4601
TABULAR (VI) = -0.0255
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -13825.103 m
$E = E_0 + E'$ = 486174.897 m

TABULAR (XII) = 8115.7398
23.54600 sec = 0.6668
(XII) = 8116.4066
TABULAR (XIII) = 2.1855
$C = (XII)p + (XIII)p^3$ = -619".90

$q = 10^{-6} E'$ = -0.01382510
TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99990234

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 158°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 7
ZONE CODE: 5007

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 162° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  54°15'23".54600
  LONGITUDE: 162°12'43".75500

     p = 10^-4 Δλ  =  -0.07637550
TABULAR  (   I) =   27824.0498
   23.54600 sec =     727.9552
   SECOND DIFF  =      -0.0006
         (   I) =   28552.0044
TABULAR  (  II) =    3561.6916
   23.54600 sec =      -0.2710
         (  II) =    3561.4208
TABULAR  ( III) =       0.7361
 N = (I) + (II)p^2 + (III)p^4 =  28572.779 m


TABULAR  (  IV) =  181043.6634
   23.54600 sec =     -28.6453
   SECOND DIFF  =       0.0018
         (  IV) =  181015.0199
TABULAR  (   V) =     -22.4482
   23.54600 sec =      -0.0118
         (   V) =     -22.4601
TABULAR  (  VI) =      -0.0255
 E' = (IV)p +(V)p^3 + (VI)p^5 = -13825.103 m
 E = E0 + E' =                 486174.897 m


TABULAR  ( XII) =    8115.7398
   23.54600 sec =       0.6668
         ( XII) =    8116.4066
TABULAR  (XIII) =       2.1855
C = (XII)p + (XIII)p^3 =     -619".90


  q  = 10^-6 E'   =  -0.01382510
TABULAR  ( XVI) =     0.012267
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99990234
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 162°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR	(XVI) =	0.012267

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 8
ZONE CODE: 5008

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 166° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  54°15'23".54600
  LONGITUDE: 166°12'43".75500

     p = 10^-4 Δλ  =  -0.07637550
TABULAR  (   I) =   27824.0498
   23.54600 sec =     727.9552
   SECOND DIFF  =      -0.0006
         (   I) =   28552.0044
TABULAR  (  II) =    3561.6916
   23.54600 sec =      -0.2710
         (  II) =    3561.4208
TABULAR  ( III) =       0.7361
 N = (I) + (II)p^2 + (III)p^4 =  28572.779 m


TABULAR  (  IV) =  181043.6634
   23.54600 sec =     -28.6453
   SECOND DIFF  =       0.0018
         (  IV) =  181015.0199
TABULAR  (   V) =     -22.4482
   23.54600 sec =      -0.0118
         (   V) =     -22.4601
TABULAR  (  VI) =      -0.0255
 E' = (IV)p +(V)p^3 + (VI)p^5 = -13825.103 m
 E = E0 + E' =                 486174.897 m


TABULAR  ( XII) =    8115.7398
   23.54600 sec =       0.6668
         ( XII) =    8116.4066
TABULAR  (XIII) =       2.1855
C = (XII)p + (XIII)p^3 =     -619".90


  q  = 10^-6 E'   =  -0.01382510
TABULAR  ( XVI) =     0.012267
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99990234
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 166°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ALASKA 9
ZONE CODE: 5009

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 54° 0' (latitude of grid origin)
λ_b = 170° 0' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 54°00' to ϕ_{max} = 71°25'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 54°15'23".54600
LONGITUDE: 170°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.07637550
TABULAR (I) = 27824.0498
23.54600 sec = 727.9552
SECOND DIFF = -0.0006
(I) = 28552.0044
TABULAR (II) = 3561.6916
23.54600 sec = -0.2710
(II) = 3561.4208
TABULAR (III) = 0.7361
$N = (I) + (II)p^2 + (III)p^4$ = 28572.779 m

TABULAR (IV) = 181043.6634
23.54600 sec = -28.6453
SECOND DIFF = 0.0018
(IV) = 181015.0199
TABULAR (V) = -22.4482
23.54600 sec = -0.0118
(V) = -22.4601
TABULAR (VI) = -0.0255
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -13825.103 m
$E = E_0 + E'$ = 486174.897 m

TABULAR (XII) = 8115.7398
23.54600 sec = 0.6668
(XII) = 8116.4066
TABULAR (XIII) = 2.1855
$C = (XII)p + (XIII)p^3$ = -619".90

$q = 10^{-6} E'$ = -0.01382510
TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99990234

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.01382510$
$\phi' = 54°15'24''.21796$

TABULAR	(VII) =	3514.8173
24.21796 sec	=	0.8654
	(VII) =	3515.6827
TABULAR	(VIII) =	77.0817
24.21796 sec	=	0.0394
	(VIII) =	77.1211

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 54°15'23''.54600$

TABULAR	(IX) =	55235.2941
24.21796 sec	=	8.9925
SECOND DIFF	=	-0.0027
	(IX) =	55244.2839
TABULAR	(X) =	1095.4925
24.21796 sec	=	0.6085
	(X) =	1096.1011
TABULAR	(XI) =	40.9383
24.21796 sec	=	0.0384
	(XI) =	40.9768

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 170°12'43''.75500$

TABULAR	(XIV) =	44827.5276
24.21796 sec	=	11.0879
SECOND DIFF	=	-0.0027
	(XIV) =	44838.6128
TABULAR	(XV) =	1070.6903
24.21796 sec	=	0.6143
	(XV) =	1071.3046

$C = (XIV)q - (XV)q^3 = -619''.90$

TABULAR (XVI) = 0.012267
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99990234$

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
54° 0'	-0.0000	30.915008	3571.9059	-0.011208	0.756
	182136.7116	-1.212684	-21.9911	-0.000513	-0.026
54° 1'	1854.9005	30.915094	3571.2334	-0.011228	0.754
	182063.9505	-1.212944	-22.0218	-0.000512	-0.026
54° 2'	3709.8061	30.915180	3570.5597	-0.011248	0.753
	181991.1739	-1.213203	-22.0526	-0.000511	-0.026
54° 3'	5564.7169	30.915266	3569.8848	-0.011269	0.752
	181918.3817	-1.213463	-22.0832	-0.000511	-0.026
54° 4'	7419.6329	30.915353	3569.2087	-0.011289	0.750
	181845.5740	-1.213722	-22.1139	-0.000510	-0.026
54° 5'	9274.5541	30.915439	3568.5314	-0.011309	0.749
	181772.7506	-1.213981	-22.1445	-0.000509	-0.026
54° 6'	11129.4804	30.915525	3567.8528	-0.011329	0.748
	181699.9118	-1.214240	-22.1750	-0.000509	-0.026
54° 7'	12984.4119	30.915611	3567.1731	-0.011349	0.747
	181627.0574	-1.214499	-22.2056	-0.000508	-0.026
54° 8'	14839.3485	30.915697	3566.4921	-0.011369	0.745
	181554.1874	-1.214758	-22.2360	-0.000507	-0.026
54° 9'	16694.2904	30.915783	3565.8100	-0.011390	0.744
	181481.3020	-1.215017	-22.2665	-0.000507	-0.026
54°10'	18549.2374	30.915869	3565.1266	-0.011410	0.743
	181408.4010	-1.215275	-22.2969	-0.000506	-0.026
54°11'	20404.1895	30.915956	3564.4420	-0.011430	0.741
	181335.4845	-1.215534	-22.3272	-0.000505	-0.026
54°12'	22259.1469	30.916042	3563.7562	-0.011450	0.740
	181262.5525	-1.215792	-22.3575	-0.000505	-0.026
54°13'	24114.1094	30.916128	3563.0692	-0.011470	0.739
	181189.6049	-1.216050	-22.3878	-0.000504	-0.026
54°14'	25969.0770	30.916214	3562.3810	-0.011490	0.737
	181116.6419	-1.216309	-22.4180	-0.000503	-0.025
54°15'	27824.0498	30.916300	3561.6916	-0.011510	0.736
	181043.6634	-1.216567	-22.4482	-0.000502	-0.025
54°16'	29679.0278	30.916386	3561.0010	-0.011530	0.735
	180970.6694	-1.216825	-22.4784	-0.000502	-0.025
54°17'	31534.0110	30.916472	3560.3092	-0.011551	0.734
	180897.6599	-1.217083	-22.5085	-0.000501	-0.025
54°18'	33388.9993	30.916558	3559.6162	-0.011571	0.732
	180824.6349	-1.217341	-22.5386	-0.000500	-0.025
54°19'	35243.9927	30.916644	3558.9219	-0.011591	0.731
	180751.5945	-1.217598	-22.5686	-0.000500	-0.025
54°20'	37098.9913	30.916730	3558.2265	-0.011611	0.730
	180678.5386	-1.217856	-22.5986	-0.000499	-0.025
54°21'	38953.9951	30.916815	3557.5298	-0.011631	0.728
	180605.4672	-1.218113	-22.6285	-0.000498	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0011	0.0017	0.0019

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
54°22'	40809.0040	30.916901	3556.8320	-0.011651	0.727
	180532.3804	-1.218371	-22.6584	-0.000498	-0.025
54°23'	42664.0181	30.916987	3556.1329	-0.011671	0.726
	180459.2782	-1.218628	-22.6883	-0.000497	-0.025
54°24'	44519.0374	30.917073	3555.4326	-0.011691	0.724
	180386.1605	-1.218885	-22.7181	-0.000496	-0.025
54°25'	46374.0617	30.917159	3554.7312	-0.011711	0.723
	180313.0274	-1.219142	-22.7479	-0.000496	-0.025
54°26'	48229.0913	30.917245	3554.0285	-0.011731	0.722
	180239.8789	-1.219399	-22.7776	-0.000495	-0.025
54°27'	50084.1260	30.917331	3553.3246	-0.011751	0.720
	180166.7149	-1.219656	-22.8073	-0.000494	-0.025
54°28'	51939.1658	30.917416	3552.6195	-0.011772	0.719
	180093.5355	-1.219913	-22.8369	-0.000494	-0.025
54°29'	53794.2108	30.917502	3551.9132	-0.011792	0.718
	180020.3407	-1.220170	-22.8665	-0.000493	-0.025
54°30'	55649.2609	30.917588	3551.2057	-0.011812	0.717
	179947.1306	-1.220426	-22.8961	-0.000492	-0.025
54°31'	57504.3162	30.917674	3550.4970	-0.011832	0.715
	179873.9050	-1.220683	-22.9256	-0.000491	-0.025
54°32'	59359.3766	30.917759	3549.7871	-0.011852	0.714
	179800.6640	-1.220939	-22.9551	-0.000491	-0.025
54°33'	61214.4422	30.917845	3549.0760	-0.011872	0.713
	179727.4077	-1.221195	-22.9846	-0.000490	-0.025
54°34'	63069.5129	30.917931	3548.3637	-0.011892	0.711
	179654.1359	-1.221452	-23.0140	-0.000489	-0.025
54°35'	64924.5888	30.918017	3547.6502	-0.011912	0.710
	179580.8488	-1.221708	-23.0433	-0.000489	-0.025
54°36'	66779.6698	30.918102	3546.9354	-0.011932	0.709
	179507.5464	-1.221964	-23.0727	-0.000488	-0.025
54°37'	68634.7559	30.918188	3546.2195	-0.011952	0.708
	179434.2286	-1.222219	-23.1019	-0.000487	-0.025
54°38'	70489.8472	30.918274	3545.5024	-0.011972	0.706
	179360.8954	-1.222475	-23.1312	-0.000487	-0.025
54°39'	72344.9436	30.918359	3544.7841	-0.011992	0.705
	179287.5469	-1.222731	-23.1604	-0.000486	-0.025
54°40'	74200.0451	30.918445	3544.0646	-0.012012	0.704
	179214.1830	-1.222986	-23.1895	-0.000485	-0.025
54°41'	76055.1518	30.918530	3543.3438	-0.012032	0.702
	179140.8038	-1.223242	-23.2186	-0.000485	-0.025
54°42'	77910.2636	30.918616	3542.6219	-0.012052	0.701
	179067.4093	-1.223497	-23.2477	-0.000484	-0.025
54°43'	79765.3806	30.918701	3541.8988	-0.012072	0.700
	178993.9995	-1.223753	-23.2767	-0.000483	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0011	0.0017	0.0019

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
54°44'	81620.5027	30.918787	3541.1744	-0.012092	0.698
	178920.5743	-1.224008	-23.3057	-0.000482	-0.025
54°45'	83475.6299	30.918872	3540.4489	-0.012112	0.697
	178847.1339	-1.224263	-23.3347	-0.000482	-0.025
54°46'	85330.7622	30.918958	3539.7222	-0.012132	0.696
	178773.6781	-1.224518	-23.3636	-0.000481	-0.025
54°47'	87185.8997	30.919043	3538.9942	-0.012152	0.695
	178700.2071	-1.224772	-23.3924	-0.000480	-0.025
54°48'	89041.0423	30.919129	3538.2651	-0.012172	0.693
	178626.7207	-1.225027	-23.4213	-0.000480	-0.025
54°49'	90896.1901	30.919214	3537.5348	-0.012192	0.692
	178553.2191	-1.225282	-23.4500	-0.000479	-0.025
54°50'	92751.3429	30.919300	3536.8032	-0.012212	0.691
	178479.7022	-1.225536	-23.4788	-0.000478	-0.025
54°51'	94606.5009	30.919385	3536.0705	-0.012232	0.689
	178406.1700	-1.225791	-23.5075	-0.000478	-0.025
54°52'	96461.6640	30.919471	3535.3366	-0.012252	0.688
	178332.6225	-1.226045	-23.5361	-0.000477	-0.025
54°53'	98316.8323	30.919556	3534.6015	-0.012272	0.687
	178259.0598	-1.226299	-23.5647	-0.000476	-0.025
54°54'	100172.0056	30.919641	3533.8651	-0.012292	0.686
	178185.4819	-1.226553	-23.5933	-0.000475	-0.025
54°55'	102027.1841	30.919727	3533.1276	-0.012312	0.684
	178111.8887	-1.226807	-23.6218	-0.000475	-0.025
54°56'	103882.3677	30.919812	3532.3889	-0.012332	0.683
	178038.2802	-1.227061	-23.6503	-0.000474	-0.025
54°57'	105737.5564	30.919897	3531.6490	-0.012352	0.682
	177964.6565	-1.227315	-23.6788	-0.000473	-0.025
54°58'	107592.7503	30.919983	3530.9079	-0.012372	0.680
	177891.0176	-1.227569	-23.7072	-0.000473	-0.025
54°59'	109447.9492	30.920068	3530.1655	-0.012392	0.679
	177817.3635	-1.227822	-23.7355	-0.000472	-0.025
55° 0'	111303.1533	30.920153	3529.4220	-0.012412	0.678
	177743.6941	-1.228076	-23.7639	-0.000471	-0.025
55° 1'	113158.3625	30.920238	3528.6773	-0.012432	0.677
	177670.0096	-1.228329	-23.7921	-0.000471	-0.025
55° 2'	115013.5768	30.920324	3527.9314	-0.012452	0.675
	177596.3098	-1.228583	-23.8204	-0.000470	-0.025
55° 3'	116868.7962	30.920409	3527.1843	-0.012472	0.674
	177522.5948	-1.228836	-23.8486	-0.000469	-0.025
55° 4'	118724.0207	30.920494	3526.4360	-0.012492	0.673
	177448.8647	-1.229089	-23.8767	-0.000469	-0.025
55° 5'	120579.2504	30.920579	3525.6865	-0.012511	0.671
	177375.1194	-1.229342	-23.9048	-0.000468	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0011	0.0017	0.0019

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
55° 6'	122434.4851	30.920664	3524.9359	-0.012531	0.670
	177301.3588	-1.229595	-23.9329	-0.000467	-0.024
55° 7'	124289.7250	30.920749	3524.1840	-0.012551	0.669
	177227.5831	-1.229848	-23.9609	-0.000466	-0.024
55° 8'	126144.9699	30.920835	3523.4309	-0.012571	0.668
	177153.7923	-1.230100	-23.9889	-0.000466	-0.024
55° 9'	128000.2200	30.920920	3522.6766	-0.012591	0.666
	177079.9863	-1.230353	-24.0169	-0.000465	-0.024
55°10'	129855.4752	30.921005	3521.9212	-0.012611	0.665
	177006.1651	-1.230605	-24.0448	-0.000464	-0.024
55°11'	131710.7355	30.921090	3521.1645	-0.012631	0.664
	176932.3288	-1.230858	-24.0726	-0.000464	-0.024
55°12'	133566.0008	30.921175	3520.4066	-0.012651	0.662
	176858.4773	-1.231110	-24.1005	-0.000463	-0.024
55°13'	135421.2713	30.921260	3519.6476	-0.012671	0.661
	176784.6107	-1.231362	-24.1282	-0.000462	-0.024
55°14'	137276.5469	30.921345	3518.8874	-0.012691	0.660
	176710.7290	-1.231614	-24.1560	-0.000462	-0.024
55°15'	139131.8276	30.921430	3518.1259	-0.012710	0.659
	176636.8322	-1.231866	-24.1837	-0.000461	-0.024
55°16'	140987.1134	30.921515	3517.3633	-0.012730	0.657
	176562.9202	-1.232118	-24.2113	-0.000460	-0.024
55°17'	142842.4043	30.921600	3516.5995	-0.012750	0.656
	176488.9931	-1.232370	-24.2389	-0.000459	-0.024
55°18'	144697.7003	30.921685	3515.8345	-0.012770	0.655
	176415.0510	-1.232621	-24.2665	-0.000459	-0.024
55°19'	146553.0013	30.921770	3515.0683	-0.012790	0.654
	176341.0937	-1.232873	-24.2940	-0.000458	-0.024
55°20'	148408.3075	30.921854	3514.3009	-0.012810	0.652
	176267.1213	-1.233124	-24.3215	-0.000457	-0.024
55°21'	150263.6188	30.921939	3513.5323	-0.012830	0.651
	176193.1339	-1.233376	-24.3489	-0.000457	-0.024
55°22'	152118.9351	30.922024	3512.7625	-0.012849	0.650
	176119.1313	-1.233627	-24.3763	-0.000456	-0.024
55°23'	153974.2566	30.922109	3511.9915	-0.012869	0.648
	176045.1137	-1.233878	-24.4037	-0.000455	-0.024
55°24'	155829.5831	30.922194	3511.2194	-0.012889	0.647
	175971.0810	-1.234129	-24.4310	-0.000455	-0.024
55°25'	157684.9148	30.922279	3510.4460	-0.012909	0.646
	175897.0333	-1.234380	-24.4583	-0.000454	-0.024
55°26'	159540.2515	30.922363	3509.6715	-0.012929	0.645
	175822.9705	-1.234631	-24.4855	-0.000453	-0.024
55°27'	161395.5933	30.922448	3508.8957	-0.012949	0.643
	175748.8927	-1.234881	-24.5127	-0.000452	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0010	0.0017	0.0019

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
55°28'	163250.9402	30.922533	3508.1188	-0.012969	0.642
	175674.7998	-1.235132	-24.5398	-0.000452	-0.024
55°29'	165106.2922	30.922618	3507.3407	-0.012988	0.641
	175600.6919	-1.235382	-24.5669	-0.000451	-0.024
55°30'	166961.6492	30.922702	3506.5614	-0.013008	0.640
	175526.5689	-1.235633	-24.5940	-0.000450	-0.024
55°31'	168817.0114	30.922787	3505.7809	-0.013028	0.638
	175452.4310	-1.235883	-24.6210	-0.000450	-0.024
55°32'	170672.3786	30.922872	3504.9993	-0.013048	0.637
	175378.2780	-1.236133	-24.6480	-0.000449	-0.024
55°33'	172527.7509	30.922956	3504.2164	-0.013068	0.636
	175304.1100	-1.236383	-24.6749	-0.000448	-0.024
55°34'	174383.1283	30.923041	3503.4323	-0.013087	0.634
	175229.9270	-1.236633	-24.7018	-0.000448	-0.024
55°35'	176238.5107	30.923126	3502.6471	-0.013107	0.633
	175155.7290	-1.236883	-24.7287	-0.000447	-0.024
55°36'	178093.8983	30.923210	3501.8607	-0.013127	0.632
	175081.5160	-1.237133	-24.7555	-0.000446	-0.024
55°37'	179949.2909	30.923295	3501.0730	-0.013147	0.631
	175007.2880	-1.237383	-24.7822	-0.000445	-0.024
55°38'	181804.6886	30.923379	3500.2842	-0.013167	0.629
	174933.0451	-1.237632	-24.8090	-0.000445	-0.024
55°39'	183660.0913	30.923464	3499.4942	-0.013186	0.628
	174858.7871	-1.237882	-24.8357	-0.000444	-0.024
55°40'	185515.4992	30.923548	3498.7031	-0.013206	0.627
	174784.5142	-1.238131	-24.8623	-0.000443	-0.024
55°41'	187370.9121	30.923633	3497.9107	-0.013226	0.626
	174710.2264	-1.238380	-24.8889	-0.000443	-0.024
55°42'	189226.3300	30.923717	3497.1172	-0.013246	0.624
	174635.9236	-1.238629	-24.9154	-0.000442	-0.024
55°43'	191081.7531	30.923802	3496.3224	-0.013265	0.623
	174561.6058	-1.238878	-24.9420	-0.000441	-0.024
55°44'	192937.1812	30.923886	3495.5265	-0.013285	0.622
	174487.2731	-1.239127	-24.9684	-0.000440	-0.024
55°45'	194792.6144	30.923971	3494.7294	-0.013305	0.621
	174412.9255	-1.239376	-24.9949	-0.000440	-0.024
55°46'	196648.0526	30.924055	3493.9311	-0.013325	0.619
	174338.5629	-1.239625	-25.0212	-0.000439	-0.024
55°47'	198503.4960	30.924140	3493.1316	-0.013344	0.618
	174264.1854	-1.239873	-25.0476	-0.000438	-0.024
55°48'	200358.9443	30.924224	3492.3310	-0.013364	0.617
	174189.7930	-1.240122	-25.0739	-0.000438	-0.024
55°49'	202214.3978	30.924308	3491.5291	-0.013384	0.616
	174115.3857	-1.240370	-25.1001	-0.000437	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0010	0.0017	0.0019

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
55°50'	204069.8563	30.924393	3490.7261	-0.013404	0.614
	174040.9635	-1.240619	-25.1264	-0.000436	-0.024
55°51'	205925.3198	30.924477	3489.9219	-0.013423	0.613
	173966.5263	-1.240867	-25.1525	-0.000436	-0.024
55°52'	207780.7884	30.924561	3489.1165	-0.013443	0.612
	173892.0743	-1.241115	-25.1787	-0.000435	-0.024
55°53'	209636.2621	30.924646	3488.3099	-0.013463	0.611
	173817.6074	-1.241363	-25.2048	-0.000434	-0.024
55°54'	211491.7408	30.924730	3487.5021	-0.013482	0.609
	173743.1256	-1.241611	-25.2308	-0.000433	-0.024
55°55'	213347.2246	30.924814	3486.6932	-0.013502	0.608
	173668.6290	-1.241859	-25.2568	-0.000433	-0.023
55°56'	215202.7135	30.924898	3485.8831	-0.013522	0.607
	173594.1175	-1.242106	-25.2828	-0.000432	-0.023
55°57'	217058.2074	30.924982	3485.0718	-0.013542	0.605
	173519.5911	-1.242354	-25.3087	-0.000431	-0.023
55°58'	218913.7063	30.925067	3484.2593	-0.013561	0.604
	173445.0498	-1.242601	-25.3346	-0.000431	-0.023
55°59'	220769.2103	30.925151	3483.4456	-0.013581	0.603
	173370.4938	-1.242849	-25.3604	-0.000430	-0.023
56° 0'	222624.7194	30.925235	3482.6307	-0.013601	0.602
	173295.9228	-1.243096	-25.3862	-0.000429	-0.023
56° 1'	224480.2335	30.925319	3481.8147	-0.013620	0.600
	173221.3371	-1.243343	-25.4119	-0.000428	-0.023
56° 2'	226335.7526	30.925403	3480.9975	-0.013640	0.599
	173146.7365	-1.243590	-25.4377	-0.000428	-0.023
56° 3'	228191.2768	30.925487	3480.1791	-0.013660	0.598
	173072.1211	-1.243837	-25.4633	-0.000427	-0.023
56° 4'	230046.8060	30.925571	3479.3595	-0.013679	0.597
	172997.4908	-1.244084	-25.4889	-0.000426	-0.023
56° 5'	231902.3403	30.925655	3478.5388	-0.013699	0.595
	172922.8458	-1.244331	-25.5145	-0.000426	-0.023
56° 6'	233757.8796	30.925739	3477.7168	-0.013719	0.594
	172848.1859	-1.244577	-25.5401	-0.000425	-0.023
56° 7'	235613.4240	30.925823	3476.8937	-0.013738	0.593
	172773.5113	-1.244824	-25.5656	-0.000424	-0.023
56° 8'	237468.9734	30.925907	3476.0694	-0.013758	0.592
	172698.8219	-1.245070	-25.5910	-0.000424	-0.023
56° 9'	239324.5278	30.925991	3475.2440	-0.013778	0.590
	172624.1176	-1.245317	-25.6164	-0.000423	-0.023
56°10'	241180.0873	30.926075	3474.4173	-0.013797	0.589
	172549.3986	-1.245563	-25.6418	-0.000422	-0.023
56°11'	243035.6518	30.926159	3473.5895	-0.013817	0.588
	172474.6649	-1.245809	-25.6671	-0.000421	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0010	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
56°12'	244891.2214	30.926243	3472.7605	-0.013836	0.587
	172399.9163	-1.246055	-25.6924	-0.000421	-0.023
56°13'	246746.7960	30.926327	3471.9303	-0.013856	0.586
	172325.1530	-1.246301	-25.7176	-0.000420	-0.023
56°14'	248602.3756	30.926411	3471.0989	-0.013876	0.584
	172250.3750	-1.246547	-25.7428	-0.000419	-0.023
56°15'	250457.9602	30.926495	3470.2664	-0.013895	0.583
	172175.5822	-1.246792	-25.7680	-0.000419	-0.023
56°16'	252313.5499	30.926579	3469.4327	-0.013915	0.582
	172100.7746	-1.247038	-25.7931	-0.000418	-0.023
56°17'	254169.1446	30.926662	3468.5978	-0.013934	0.581
	172025.9523	-1.247283	-25.8182	-0.000417	-0.023
56°18'	256024.7444	30.926746	3467.7617	-0.013954	0.579
	171951.1153	-1.247529	-25.8432	-0.000416	-0.023
56°19'	257880.3491	30.926830	3466.9245	-0.013974	0.578
	171876.2636	-1.247774	-25.8682	-0.000416	-0.023
56°20'	259735.9589	30.926914	3466.0860	-0.013993	0.577
	171801.3971	-1.248019	-25.8931	-0.000415	-0.023
56°21'	261591.5737	30.926997	3465.2464	-0.014013	0.576
	171726.5160	-1.248264	-25.9180	-0.000414	-0.023
56°22'	263447.1936	30.927081	3464.4057	-0.014032	0.574
	171651.6201	-1.248509	-25.9429	-0.000414	-0.023
56°23'	265302.8184	30.927165	3463.5637	-0.014052	0.573
	171576.7096	-1.248754	-25.9677	-0.000413	-0.023
56°24'	267158.4483	30.927248	3462.7206	-0.014072	0.572
	171501.7843	-1.248999	-25.9925	-0.000412	-0.023
56°25'	269014.0832	30.927332	3461.8763	-0.014091	0.571
	171426.8444	-1.249244	-26.0172	-0.000411	-0.023
56°26'	270869.7232	30.927416	3461.0308	-0.014111	0.569
	171351.8898	-1.249488	-26.0419	-0.000411	-0.023
56°27'	272725.3681	30.927499	3460.1842	-0.014130	0.568
	171276.9205	-1.249732	-26.0665	-0.000410	-0.023
56°28'	274581.0181	30.927583	3459.3364	-0.014150	0.567
	171201.9366	-1.249977	-26.0911	-0.000409	-0.023
56°29'	276436.6730	30.927666	3458.4874	-0.014169	0.566
	171126.9379	-1.250221	-26.1157	-0.000409	-0.023
56°30'	278292.3330	30.927750	3457.6372	-0.014189	0.564
	171051.9247	-1.250465	-26.1402	-0.000408	-0.023
56°31'	280147.9980	30.927834	3456.7859	-0.014208	0.563
	170976.8968	-1.250709	-26.1647	-0.000407	-0.023
56°32'	282003.6680	30.927917	3455.9334	-0.014228	0.562
	170901.8542	-1.250953	-26.1891	-0.000406	-0.023
56°33'	283859.3430	30.928001	3455.0797	-0.014248	0.561
	170826.7970	-1.251197	-26.2135	-0.000406	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0010	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
56°34'	285715.0231	30.928084	3454.2249	-0.014267	0.560
	170751.7252	-1.251441	-26.2378	-0.000405	-0.023
56°35'	287570.7081	30.928167	3453.3688	-0.014287	0.558
	170676.6388	-1.251684	-26.2621	-0.000404	-0.023
56°36'	289426.3982	30.928251	3452.5116	-0.014306	0.557
	170601.5378	-1.251928	-26.2864	-0.000404	-0.023
56°37'	291282.0932	30.928334	3451.6533	-0.014326	0.556
	170526.4221	-1.252171	-26.3106	-0.000403	-0.023
56°38'	293137.7933	30.928418	3450.7938	-0.014345	0.555
	170451.2919	-1.252414	-26.3348	-0.000402	-0.023
56°39'	294993.4983	30.928501	3449.9330	-0.014365	0.553
	170376.1470	-1.252657	-26.3589	-0.000401	-0.023
56°40'	296849.2084	30.928584	3449.0712	-0.014384	0.552
	170300.9876	-1.252900	-26.3830	-0.000401	-0.023
56°41'	298704.9235	30.928668	3448.2081	-0.014404	0.551
	170225.8135	-1.253143	-26.4070	-0.000400	-0.023
56°42'	300560.6435	30.928751	3447.3439	-0.014423	0.550
	170150.6249	-1.253386	-26.4310	-0.000399	-0.022
56°43'	302416.3686	30.928834	3446.4785	-0.014443	0.548
	170075.4217	-1.253629	-26.4550	-0.000399	-0.022
56°44'	304272.0986	30.928918	3445.6120	-0.014462	0.547
	170000.2040	-1.253872	-26.4789	-0.000398	-0.022
56°45'	306127.8337	30.929001	3444.7443	-0.014481	0.546
	169924.9717	-1.254114	-26.5028	-0.000397	-0.022
56°46'	307983.5737	30.929084	3443.8754	-0.014501	0.545
	169849.7249	-1.254357	-26.5266	-0.000396	-0.022
56°47'	309839.3188	30.929167	3443.0053	-0.014520	0.544
	169774.4635	-1.254599	-26.5504	-0.000396	-0.022
56°48'	311695.0688	30.929250	3442.1341	-0.014540	0.542
	169699.1875	-1.254841	-26.5741	-0.000395	-0.022
56°49'	313550.8238	30.929334	3441.2617	-0.014559	0.541
	169623.8971	-1.255083	-26.5978	-0.000394	-0.022
56°50'	315406.5838	30.929417	3440.3881	-0.014579	0.540
	169548.5921	-1.255325	-26.6215	-0.000394	-0.022
56°51'	317262.3488	30.929500	3439.5134	-0.014598	0.539
	169473.2726	-1.255567	-26.6451	-0.000393	-0.022
56°52'	319118.1188	30.929583	3438.6375	-0.014618	0.537
	169397.9385	-1.255809	-26.6687	-0.000392	-0.022
56°53'	320973.8938	30.929666	3437.7605	-0.014637	0.536
	169322.5900	-1.256051	-26.6922	-0.000391	-0.022
56°54'	322829.6737	30.929749	3436.8822	-0.014656	0.535
	169247.2270	-1.256292	-26.7157	-0.000391	-0.022
56°55'	324685.4587	30.929832	3436.0028	-0.014676	0.534
	169171.8494	-1.256534	-26.7392	-0.000390	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0010	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
56°56'	326541.2486	30.929915	3435.1223	-0.014695	0.533
	169096.4574	-1.256775	-26.7626	-0.000389	-0.022
56°57'	328397.0435	30.929998	3434.2406	-0.014715	0.531
	169021.0509	-1.257016	-26.7859	-0.000389	-0.022
56°58'	330252.8434	30.930081	3433.3577	-0.014734	0.530
	168945.6299	-1.257257	-26.8092	-0.000388	-0.022
56°59'	332108.6482	30.930164	3432.4736	-0.014754	0.529
	168870.1945	-1.257498	-26.8325	-0.000387	-0.022
57° 0'	333964.4581	30.930247	3431.5884	-0.014773	0.528
	168794.7446	-1.257739	-26.8557	-0.000386	-0.022
57° 1'	335820.2729	30.930330	3430.7020	-0.014792	0.527
	168719.2802	-1.257980	-26.8789	-0.000386	-0.022
57° 2'	337676.0927	30.930413	3429.8145	-0.014812	0.525
	168643.8014	-1.258221	-26.9021	-0.000385	-0.022
57° 3'	339531.9174	30.930495	3428.9258	-0.014831	0.524
	168568.3082	-1.258462	-26.9252	-0.000384	-0.022
57° 4'	341387.7471	30.930578	3428.0359	-0.014850	0.523
	168492.8005	-1.258702	-26.9482	-0.000384	-0.022
57° 5'	343243.5818	30.930661	3427.1449	-0.014870	0.522
	168417.2783	-1.258943	-26.9712	-0.000383	-0.022
57° 6'	345099.4215	30.930744	3426.2527	-0.014889	0.520
	168341.7418	-1.259183	-26.9942	-0.000382	-0.022
57° 7'	346955.2662	30.930827	3425.3594	-0.014909	0.519
	168266.1908	-1.259423	-27.0171	-0.000381	-0.022
57° 8'	348811.1158	30.930909	3424.4648	-0.014928	0.518
	168190.6254	-1.259663	-27.0400	-0.000381	-0.022
57° 9'	350666.9703	30.930992	3423.5692	-0.014947	0.517
	168115.0456	-1.259903	-27.0629	-0.000380	-0.022
57°10'	352522.8299	30.931075	3422.6723	-0.014967	0.516
	168039.4515	-1.260143	-27.0857	-0.000379	-0.022
57°11'	354378.6944	30.931158	3421.7743	-0.014986	0.514
	167963.8429	-1.260383	-27.1084	-0.000379	-0.022
57°12'	356234.5638	30.931240	3420.8752	-0.015005	0.513
	167888.2199	-1.260622	-27.1311	-0.000378	-0.022
57°13'	358090.4382	30.931323	3419.9748	-0.015025	0.512
	167812.5826	-1.260862	-27.1538	-0.000377	-0.022
57°14'	359946.3176	30.931406	3419.0734	-0.015044	0.511
	167736.9308	-1.261101	-27.1764	-0.000376	-0.022
57°15'	361802.2019	30.931488	3418.1707	-0.015063	0.510
	167661.2648	-1.261341	-27.1990	-0.000376	-0.022
57°16'	363658.0912	30.931571	3417.2669	-0.015083	0.508
	167585.5843	-1.261580	-27.2216	-0.000375	-0.022
57°17'	365513.9855	30.931653	3416.3620	-0.015102	0.507
	167509.8895	-1.261819	-27.2441	-0.000374	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.001	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
57°18'	367369.8847	30.931736	3415.4559	-0.015121	0.506
	167434.1804	-1.262058	-27.2665	-0.000374	-0.022
57°19'	369225.7888	30.931818	3414.5486	-0.015141	0.505
	167358.4569	-1.262297	-27.2889	-0.000373	-0.022
57°20'	371081.6979	30.931901	3413.6401	-0.015160	0.504
	167282.7190	-1.262536	-27.3113	-0.000372	-0.022
57°21'	372937.6120	30.931983	3412.7306	-0.015179	0.502
	167206.9669	-1.262775	-27.3336	-0.000371	-0.022
57°22'	374793.5310	30.932066	3411.8198	-0.015198	0.501
	167131.2004	-1.263013	-27.3559	-0.000371	-0.022
57°23'	376649.4549	30.932148	3410.9079	-0.015218	0.500
	167055.4196	-1.263252	-27.3781	-0.000370	-0.022
57°24'	378505.3838	30.932231	3409.9948	-0.015237	0.499
	166979.6245	-1.263490	-27.4003	-0.000369	-0.022
57°25'	380361.3177	30.932313	3409.0806	-0.015256	0.498
	166903.8151	-1.263728	-27.4225	-0.000369	-0.022
57°26'	382217.2565	30.932395	3408.1652	-0.015276	0.496
	166827.9914	-1.263967	-27.4446	-0.000368	-0.022
57°27'	384073.2002	30.932478	3407.2487	-0.015295	0.495
	166752.1534	-1.264205	-27.4667	-0.000367	-0.021
57°28'	385929.1488	30.932560	3406.3310	-0.015314	0.494
	166676.3011	-1.264443	-27.4887	-0.000366	-0.021
57°29'	387785.1025	30.932642	3405.4122	-0.015333	0.493
	166600.4345	-1.264681	-27.5107	-0.000366	-0.021
57°30'	389641.0610	30.932725	3404.4922	-0.015353	0.492
	166524.5537	-1.264918	-27.5326	-0.000365	-0.021
57°31'	391497.0245	30.932807	3403.5710	-0.015372	0.490
	166448.6586	-1.265156	-27.5545	-0.000364	-0.021
57°32'	393352.9929	30.932889	3402.6487	-0.015391	0.489
	166372.7493	-1.265393	-27.5764	-0.000363	-0.021
57°33'	395208.9662	30.932971	3401.7253	-0.015410	0.488
	166296.8256	-1.265631	-27.5982	-0.000363	-0.021
57°34'	397064.9445	30.933054	3400.8006	-0.015429	0.487
	166220.8878	-1.265868	-27.6199	-0.000362	-0.021
57°35'	398920.9277	30.933136	3399.8749	-0.015449	0.486
	166144.9357	-1.266105	-27.6417	-0.000361	-0.021
57°36'	400776.9159	30.933218	3398.9480	-0.015468	0.484
	166068.9694	-1.266343	-27.6633	-0.000361	-0.021
57°37'	402632.9090	30.933300	3398.0199	-0.015487	0.483
	165992.9888	-1.266580	-27.6850	-0.000360	-0.021
57°38'	404488.9070	30.933382	3397.0907	-0.015506	0.482
	165916.9940	-1.266816	-27.7066	-0.000359	-0.021
57°39'	406344.9099	30.933464	3396.1603	-0.015526	0.481
	165840.9851	-1.267053	-27.7281	-0.000358	-0.021

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.001	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
57°40'	408200.9177	30.933546	3395.2287	-0.015545	0.480
	165764.9619	-1.267290	-27.7496	-0.000358	-0.021
57°41'	410056.9305	30.933628	3394.2961	-0.015564	0.479
	165688.9245	-1.267527	-27.7711	-0.000357	-0.021
57°42'	411912.9482	30.933710	3393.3622	-0.015583	0.477
	165612.8729	-1.267763	-27.7925	-0.000356	-0.021
57°43'	413768.9708	30.933792	3392.4272	-0.015602	0.476
	165536.8071	-1.267999	-27.8139	-0.000356	-0.021
57°44'	415624.9984	30.933874	3391.4911	-0.015621	0.475
	165460.7271	-1.268236	-27.8352	-0.000355	-0.021
57°45'	417481.0308	30.933956	3390.5538	-0.015641	0.474
	165384.6330	-1.268472	-27.8565	-0.000354	-0.021
57°46'	419337.0682	30.934038	3389.6154	-0.015660	0.473
	165308.5247	-1.268708	-27.8777	-0.000353	-0.021
57°47'	421193.1105	30.934120	3388.6758	-0.015679	0.471
	165232.4022	-1.268944	-27.8989	-0.000353	-0.021
57°48'	423049.1577	30.934202	3387.7351	-0.015698	0.470
	165156.2656	-1.269180	-27.9201	-0.000352	-0.021
57°49'	424905.2098	30.934284	3386.7932	-0.015717	0.469
	165080.1148	-1.269415	-27.9412	-0.000351	-0.021
57°50'	426761.2668	30.934366	3385.8501	-0.015736	0.468
	165003.9499	-1.269651	-27.9623	-0.000350	-0.021
57°51'	428617.3288	30.934447	3384.9060	-0.015756	0.467
	164927.7709	-1.269886	-27.9833	-0.000350	-0.021
57°52'	430473.3956	30.934529	3383.9606	-0.015775	0.466
	164851.5777	-1.270122	-28.0043	-0.000349	-0.021
57°53'	432329.4674	30.934611	3383.0142	-0.015794	0.464
	164775.3704	-1.270357	-28.0252	-0.000348	-0.021
57°54'	434185.5440	30.934693	3382.0665	-0.015813	0.463
	164699.1489	-1.270592	-28.0461	-0.000348	-0.021
57°55'	436041.6256	30.934774	3381.1178	-0.015832	0.462
	164622.9134	-1.270827	-28.0670	-0.000347	-0.021
57°56'	437897.7121	30.934856	3380.1678	-0.015851	0.461
	164546.6638	-1.271062	-28.0878	-0.000346	-0.021
57°57'	439753.8034	30.934938	3379.2168	-0.015870	0.460
	164470.4000	-1.271297	-28.1086	-0.000345	-0.021
57°58'	441609.8997	30.935019	3378.2646	-0.015889	0.458
	164394.1222	-1.271532	-28.1293	-0.000345	-0.021
57°59'	443466.0009	30.935101	3377.3112	-0.015908	0.457
	164317.8303	-1.271767	-28.1500	-0.000344	-0.021
58° 0'	445322.1069	30.935183	3376.3567	-0.015927	0.456
	164241.5243	-1.272001	-28.1706	-0.000343	-0.021
58° 1'	447178.2179	30.935264	3375.4010	-0.015947	0.455
	164165.2042	-1.272236	-28.1912	-0.000343	-0.021

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.001	0.0016	0.0018

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
58° 2'	449034.3338	30.935346	3374.4443	-0.015966	0.454
	164088.8701	-1.272470	-28.2118	-0.000342	-0.021
58° 3'	450890.4545	30.935427	3373.4863	-0.015985	0.453
	164012.5219	-1.272704	-28.2323	-0.000341	-0.021
58° 4'	452746.5802	30.935509	3372.5272	-0.016004	0.451
	163936.1596	-1.272938	-28.2528	-0.000340	-0.021
58° 5'	454602.7107	30.935590	3371.5670	-0.016023	0.450
	163859.7834	-1.273172	-28.2732	-0.000340	-0.021
58° 6'	456458.8461	30.935672	3370.6056	-0.016042	0.449
	163783.3930	-1.273406	-28.2936	-0.000339	-0.021
58° 7'	458314.9864	30.935753	3369.6431	-0.016061	0.448
	163706.9887	-1.273640	-28.3139	-0.000338	-0.021
58° 8'	460171.1316	30.935835	3368.6795	-0.016080	0.447
	163630.5703	-1.273874	-28.3342	-0.000337	-0.021
58° 9'	462027.2817	30.935916	3367.7147	-0.016099	0.446
	163554.1378	-1.274107	-28.3544	-0.000337	-0.021
58°10'	463883.4367	30.935998	3366.7487	-0.016118	0.444
	163477.6914	-1.274341	-28.3746	-0.000336	-0.021
58°11'	465739.5965	30.936079	3365.7816	-0.016137	0.443
	163401.2310	-1.274574	-28.3948	-0.000335	-0.020
58°12'	467595.7613	30.936160	3364.8134	-0.016156	0.442
	163324.7565	-1.274807	-28.4149	-0.000335	-0.020
58°13'	469451.9309	30.936242	3363.8440	-0.016175	0.441
	163248.2681	-1.275040	-28.4350	-0.000334	-0.020
58°14'	471308.1054	30.936323	3362.8735	-0.016194	0.440
	163171.7657	-1.275273	-28.4550	-0.000333	-0.020
58°15'	473164.2848	30.936404	3361.9019	-0.016213	0.439
	163095.2493	-1.275506	-28.4750	-0.000332	-0.020
58°16'	475020.4690	30.936485	3360.9291	-0.016232	0.437
	163018.7189	-1.275739	-28.4950	-0.000332	-0.020
58°17'	476876.6581	30.936567	3359.9552	-0.016251	0.436
	162942.1745	-1.275972	-28.5149	-0.000331	-0.020
58°18'	478732.8521	30.936648	3358.9801	-0.016270	0.435
	162865.6162	-1.276205	-28.5347	-0.000330	-0.020
58°19'	480589.0510	30.936729	3358.0039	-0.016289	0.434
	162789.0439	-1.276437	-28.5545	-0.000330	-0.020
58°20'	482445.2547	30.936810	3357.0265	-0.016308	0.433
	162712.4577	-1.276669	-28.5743	-0.000329	-0.020
58°21'	484301.4633	30.936891	3356.0480	-0.016327	0.432
	162635.8576	-1.276902	-28.5940	-0.000328	-0.020
58°22'	486157.6768	30.936972	3355.0684	-0.016346	0.430
	162559.2435	-1.277134	-28.6137	-0.000327	-0.020
58°23'	488013.8951	30.937053	3354.0877	-0.016365	0.429
	162482.6154	-1.277366	-28.6334	-0.000327	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.001	0.0015	0.0017

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
58°24'	489870.1183	30.937134	3353.1058	-0.016384	0.428
	162405.9735	-1.277598	-28.6530	-0.000326	-0.020
58°25'	491726.3464	30.937215	3352.1227	-0.016403	0.427
	162329.3176	-1.277830	-28.6725	-0.000325	-0.020
58°26'	493582.5793	30.937296	3351.1385	-0.016422	0.426
	162252.6478	-1.278061	-28.6920	-0.000324	-0.020
58°27'	495438.8171	30.937377	3350.1532	-0.016441	0.425
	162175.9641	-1.278293	-28.7115	-0.000324	-0.020
58°28'	497295.0598	30.937458	3349.1668	-0.016460	0.424
	162099.2665	-1.278525	-28.7309	-0.000323	-0.020
58°29'	499151.3073	30.937539	3348.1792	-0.016479	0.422
	162022.5551	-1.278756	-28.7503	-0.000322	-0.020
58°30'	501007.5596	30.937620	3347.1905	-0.016498	0.421
	161945.8297	-1.278987	-28.7696	-0.000322	-0.020
58°31'	502863.8168	30.937701	3346.2006	-0.016517	0.420
	161869.0905	-1.279219	-28.7889	-0.000321	-0.020
58°32'	504720.0789	30.937782	3345.2096	-0.016535	0.419
	161792.3373	-1.279450	-28.8082	-0.000320	-0.020
58°33'	506576.3458	30.937863	3344.2175	-0.016554	0.418
	161715.5704	-1.279681	-28.8274	-0.000319	-0.020
58°34'	508432.6176	30.937944	3343.2242	-0.016573	0.417
	161638.7895	-1.279912	-28.8465	-0.000319	-0.020
58°35'	510288.8942	30.938024	3342.2298	-0.016592	0.416
	161561.9948	-1.280142	-28.8657	-0.000318	-0.020
58°36'	512145.1757	30.938105	3341.2343	-0.016611	0.414
	161485.1863	-1.280373	-28.8847	-0.000317	-0.020
58°37'	514001.4620	30.938186	3340.2376	-0.016630	0.413
	161408.3639	-1.280604	-28.9038	-0.000316	-0.020
58°38'	515857.7532	30.938267	3339.2399	-0.016649	0.412
	161331.5277	-1.280834	-28.9228	-0.000316	-0.020
58°39'	517714.0492	30.938347	3338.2409	-0.016668	0.411
	161254.6777	-1.281064	-28.9417	-0.000315	-0.020
58°40'	519570.3500	30.938428	3337.2409	-0.016687	0.410
	161177.8138	-1.281295	-28.9606	-0.000314	-0.020
58°41'	521426.6557	30.938509	3336.2397	-0.016705	0.409
	161100.9361	-1.281525	-28.9795	-0.000314	-0.020
58°42'	523282.9662	30.938589	3335.2373	-0.016724	0.408
	161024.0446	-1.281755	-28.9983	-0.000313	-0.020
58°43'	525139.2816	30.938670	3334.2339	-0.016743	0.406
	160947.1394	-1.281985	-29.0170	-0.000312	-0.020
58°44'	526995.6018	30.938751	3333.2293	-0.016762	0.405
	160870.2203	-1.282214	-29.0358	-0.000311	-0.020
58°45'	528851.9268	30.938831	3332.2236	-0.016781	0.404
	160793.2874	-1.282444	-29.0544	-0.000311	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.001	0.0015	0.0017

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
58°46'	530708.2567	30.938912	3331.2167	-0.016800	0.403
	160716.3408	-1.282674	-29.0731	-0.000310	-0.020
58°47'	532564.5914	30.938992	3330.2087	-0.016818	0.402
	160639.3804	-1.282903	-29.0917	-0.000309	-0.020
58°48'	534420.9309	30.939073	3329.1996	-0.016837	0.401
	160562.4062	-1.283132	-29.1102	-0.000308	-0.020
58°49'	536277.2752	30.939153	3328.1894	-0.016856	0.400
	160485.4182	-1.283362	-29.1287	-0.000308	-0.020
58°50'	538133.6244	30.939233	3327.1780	-0.016875	0.398
	160408.4165	-1.283591	-29.1472	-0.000307	-0.020
58°51'	539989.9784	30.939314	3326.1655	-0.016894	0.397
	160331.4011	-1.283820	-29.1656	-0.000306	-0.020
58°52'	541846.3373	30.939394	3325.1519	-0.016913	0.396
	160254.3719	-1.284049	-29.1840	-0.000306	-0.020
58°53'	543702.7009	30.939475	3324.1372	-0.016931	0.395
	160177.3289	-1.284278	-29.2023	-0.000305	-0.020
58°54'	545559.0694	30.939555	3323.1213	-0.016950	0.394
	160100.2723	-1.284506	-29.2206	-0.000304	-0.020
58°55'	547415.4427	30.939635	3322.1043	-0.016969	0.393
	160023.2019	-1.284735	-29.2389	-0.000303	-0.019
58°56'	549271.8208	30.939716	3321.0861	-0.016988	0.392
	159946.1178	-1.284964	-29.2571	-0.000303	-0.019
58°57'	551128.2038	30.939796	3320.0669	-0.017006	0.391
	159869.0200	-1.285192	-29.2752	-0.000302	-0.019
58°58'	552984.5915	30.939876	3319.0465	-0.017025	0.389
	159791.9085	-1.285420	-29.2934	-0.000301	-0.019
58°59'	554840.9841	30.939956	3318.0250	-0.017044	0.388
	159714.7833	-1.285648	-29.3114	-0.000300	-0.019
59° 0'	556697.3815	30.940036	3317.0023	-0.017063	0.387
	159637.6444	-1.285876	-29.3295	-0.000300	-0.019
59° 1'	558553.7837	30.940117	3315.9786	-0.017082	0.386
	159560.4918	-1.286104	-29.3475	-0.000299	-0.019
59° 2'	560410.1907	30.940197	3314.9537	-0.017100	0.385
	159483.3255	-1.286332	-29.3654	-0.000298	-0.019
59° 3'	562266.6025	30.940277	3313.9277	-0.017119	0.384
	159406.1456	-1.286560	-29.3833	-0.000298	-0.019
59° 4'	564123.0191	30.940357	3312.9005	-0.017138	0.383
	159328.9520	-1.286788	-29.4011	-0.000297	-0.019
59° 5'	565979.4405	30.940437	3311.8723	-0.017156	0.382
	159251.7447	-1.287015	-29.4190	-0.000296	-0.019
59° 6'	567835.8667	30.940517	3310.8429	-0.017175	0.380
	159174.5238	-1.287243	-29.4367	-0.000295	-0.019
59° 7'	569692.2977	30.940597	3309.8124	-0.017194	0.379
	159097.2893	-1.287470	-29.4545	-0.000295	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0015	0.0017

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
59° 8'	571548.7336	30.940677	3308.7807	-0.017213	0.378
	159020.0411	-1.287697	-29.4721	-0.000294	-0.019
59° 9'	573405.1742	30.940757	3307.7480	-0.017231	0.377
	158942.7793	-1.287924	-29.4898	-0.000293	-0.019
59°10'	575261.6196	30.940837	3306.7141	-0.017250	0.376
	158865.5038	-1.288151	-29.5074	-0.000292	-0.019
59°11'	577118.0699	30.940917	3305.6791	-0.017269	0.375
	158788.2147	-1.288378	-29.5249	-0.000292	-0.019
59°12'	578974.5249	30.940997	3304.6430	-0.017287	0.374
	158710.9121	-1.288605	-29.5424	-0.000291	-0.019
59°13'	580830.9847	30.941077	3303.6057	-0.017306	0.373
	158633.5958	-1.288831	-29.5599	-0.000290	-0.019
59°14'	582687.4493	30.941157	3302.5674	-0.017325	0.371
	158556.2659	-1.289058	-29.5773	-0.000290	-0.019
59°15'	584543.9187	30.941236	3301.5279	-0.017343	0.370
	158478.9224	-1.289284	-29.5947	-0.000289	-0.019
59°16'	586400.3929	30.941316	3300.4873	-0.017362	0.369
	158401.5654	-1.289511	-29.6120	-0.000288	-0.019
59°17'	588256.8718	30.941396	3299.4456	-0.017381	0.368
	158324.1947	-1.289737	-29.6293	-0.000287	-0.019
59°18'	590113.3556	30.941476	3298.4027	-0.017399	0.367
	158246.8105	-1.289963	-29.6465	-0.000287	-0.019
59°19'	591969.8441	30.941555	3297.3588	-0.017418	0.366
	158169.4128	-1.290189	-29.6637	-0.000286	-0.019
59°20'	593826.3375	30.941635	3296.3137	-0.017437	0.365
	158092.0014	-1.290415	-29.6809	-0.000285	-0.019
59°21'	595682.8356	30.941715	3295.2675	-0.017455	0.364
	158014.5765	-1.290641	-29.6980	-0.000284	-0.019
59°22'	597539.3385	30.941794	3294.2202	-0.017474	0.363
	157937.1381	-1.290866	-29.7151	-0.000284	-0.019
59°23'	599395.8461	30.941874	3293.1717	-0.017493	0.361
	157859.6861	-1.291092	-29.7321	-0.000283	-0.019
59°24'	601252.3586	30.941954	3292.1222	-0.017511	0.360
	157782.2206	-1.291317	-29.7491	-0.000282	-0.019
59°25'	603108.8758	30.942033	3291.0715	-0.017530	0.359
	157704.7416	-1.291543	-29.7660	-0.000282	-0.019
59°26'	604965.3978	30.942113	3290.0197	-0.017548	0.358
	157627.2490	-1.291768	-29.7829	-0.000281	-0.019
59°27'	606821.9246	30.942192	3288.9668	-0.017567	0.357
	157549.7430	-1.291993	-29.7998	-0.000280	-0.019
59°28'	608678.4561	30.942272	3287.9128	-0.017586	0.356
	157472.2234	-1.292218	-29.8166	-0.000279	-0.019
59°29'	610534.9924	30.942351	3286.8577	-0.017604	0.355
	157394.6903	-1.292443	-29.8333	-0.000279	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0015	0.0017

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
59°30'	612391.5335	30.942431	3285.8014	-0.017623	0.354
	157317.1437	-1.292668	-29.8500	-0.000278	-0.019
59°31'	614248.0793	30.942510	3284.7441	-0.017641	0.353
	157239.5837	-1.292892	-29.8667	-0.000277	-0.019
59°32'	616104.6299	30.942590	3283.6856	-0.017660	0.352
	157162.0101	-1.293117	-29.8834	-0.000276	-0.019
59°33'	617961.1853	30.942669	3282.6260	-0.017678	0.350
	157084.4231	-1.293341	-29.8999	-0.000276	-0.019
59°34'	619817.7454	30.942748	3281.5653	-0.017697	0.349
	157006.8226	-1.293566	-29.9165	-0.000275	-0.019
59°35'	621674.3103	30.942828	3280.5035	-0.017716	0.348
	156929.2087	-1.293790	-29.9330	-0.000274	-0.019
59°36'	623530.8800	30.942907	3279.4405	-0.017734	0.347
	156851.5813	-1.294014	-29.9494	-0.000274	-0.019
59°37'	625387.4544	30.942986	3278.3765	-0.017753	0.346
	156773.9404	-1.294238	-29.9659	-0.000273	-0.018
59°38'	627244.0336	30.943065	3277.3113	-0.017771	0.345
	156696.2862	-1.294462	-29.9822	-0.000272	-0.018
59°39'	629100.6175	30.943145	3276.2451	-0.017790	0.344
	156618.6184	-1.294686	-29.9985	-0.000271	-0.018
59°40'	630957.2062	30.943224	3275.1777	-0.017808	0.343
	156540.9373	-1.294910	-30.0148	-0.000271	-0.018
59°41'	632813.7996	30.943303	3274.1092	-0.017827	0.342
	156463.2427	-1.295133	-30.0311	-0.000270	-0.018
59°42'	634670.3978	30.943382	3273.0396	-0.017845	0.341
	156385.5347	-1.295357	-30.0473	-0.000269	-0.018
59°43'	636527.0007	30.943461	3271.9689	-0.017864	0.339
	156307.8133	-1.295580	-30.0634	-0.000268	-0.018
59°44'	638383.6084	30.943540	3270.8970	-0.017882	0.338
	156230.0785	-1.295803	-30.0795	-0.000268	-0.018
59°45'	640240.2208	30.943619	3269.8241	-0.017901	0.337
	156152.3303	-1.296026	-30.0956	-0.000267	-0.018
59°46'	642096.8379	30.943698	3268.7501	-0.017919	0.336
	156074.5687	-1.296249	-30.1116	-0.000266	-0.018
59°47'	643953.4598	30.943777	3267.6749	-0.017938	0.335
	155996.7938	-1.296472	-30.1276	-0.000266	-0.018
59°48'	645810.0865	30.943856	3266.5987	-0.017956	0.334
	155919.0054	-1.296695	-30.1435	-0.000265	-0.018
59°49'	647666.7179	30.943935	3265.5213	-0.017975	0.333
	155841.2037	-1.296918	-30.1594	-0.000264	-0.018
59°50'	649523.3540	30.944014	3264.4428	-0.017993	0.332
	155763.3886	-1.297141	-30.1752	-0.000263	-0.018
59°51'	651379.9948	30.944093	3263.3632	-0.018012	0.331
	155685.5602	-1.297363	-30.1910	-0.000263	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0015	0.0017

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
59°52'	653236.6404	30.944172	3262.2825	-0.018030	0.330
	155607.7184	-1.297585	-30.2068	-0.000262	-0.018
59°53'	655093.2908	30.944251	3261.2007	-0.018048	0.329
	155529.8633	-1.297808	-30.2225	-0.000261	-0.018
59°54'	656949.9458	30.944330	3260.1178	-0.018067	0.328
	155451.9948	-1.298030	-30.2382	-0.000260	-0.018
59°55'	658806.6056	30.944409	3259.0338	-0.018085	0.326
	155374.1130	-1.298252	-30.2538	-0.000260	-0.018
59°56'	660663.2701	30.944487	3257.9487	-0.018104	0.325
	155296.2179	-1.298474	-30.2694	-0.000259	-0.018
59°57'	662519.9393	30.944566	3256.8625	-0.018122	0.324
	155218.3095	-1.298696	-30.2849	-0.000258	-0.018
59°58'	664376.6133	30.944645	3255.7751	-0.018141	0.323
	155140.3878	-1.298917	-30.3004	-0.000258	-0.018
59°59'	666233.2920	30.944724	3254.6867	-0.018159	0.322
	155062.4527	-1.299139	-30.3159	-0.000257	-0.018
60° 0'	668089.9754	30.944802	3253.5972	-0.018177	0.321
	154984.5044	-1.299361	-30.3313	-0.000256	-0.018
60° 1'	669946.6635	30.944881	3252.5065	-0.018196	0.320
	154906.5427	-1.299582	-30.3466	-0.000255	-0.018
60° 2'	671803.3564	30.944959	3251.4148	-0.018214	0.319
	154828.5678	-1.299803	-30.3620	-0.000255	-0.018
60° 3'	673660.0540	30.945038	3250.3219	-0.018233	0.318
	154750.5796	-1.300024	-30.3772	-0.000254	-0.018
60° 4'	675516.7562	30.945117	3249.2280	-0.018251	0.317
	154672.5782	-1.300245	-30.3925	-0.000253	-0.018
60° 5'	677373.4632	30.945195	3248.1329	-0.018269	0.316
	154594.5634	-1.300466	-30.4077	-0.000252	-0.018
60° 6'	679230.1749	30.945274	3247.0368	-0.018288	0.315
	154516.5355	-1.300687	-30.4228	-0.000252	-0.018
60° 7'	681086.8914	30.945352	3245.9395	-0.018306	0.314
	154438.4942	-1.300908	-30.4379	-0.000251	-0.018
60° 8'	682943.6125	30.945431	3244.8412	-0.018324	0.312
	154360.4397	-1.301129	-30.4530	-0.000250	-0.018
60° 9'	684800.3383	30.945509	3243.7417	-0.018343	0.311
	154282.3720	-1.301349	-30.4680	-0.000249	-0.018
60°10'	686657.0689	30.945587	3242.6411	-0.018361	0.310
	154204.2911	-1.301570	-30.4829	-0.000249	-0.018
60°11'	688513.8041	30.945666	3241.5395	-0.018379	0.309
	154126.1969	-1.301790	-30.4979	-0.000248	-0.018
60°12'	690370.5441	30.945744	3240.4367	-0.018398	0.308
	154048.0895	-1.302010	-30.5127	-0.000247	-0.018
60°13'	692227.2887	30.945823	3239.3329	-0.018416	0.307
	153969.9689	-1.302230	-30.5276	-0.000247	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0015	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
60°14'	694084.0381	30.945901	3238.2279	-0.018434	0.306
	153891.8351	-1.302450	-30.5424	-0.000246	-0.018
60°15'	695940.7921	30.945979	3237.1218	-0.018453	0.305
	153813.6881	-1.302670	-30.5571	-0.000245	-0.018
60°16'	697797.5509	30.946057	3236.0147	-0.018471	0.304
	153735.5279	-1.302890	-30.5718	-0.000244	-0.018
60°17'	699654.3143	30.946136	3234.9064	-0.018489	0.303
	153657.3545	-1.303109	-30.5865	-0.000244	-0.018
60°18'	701511.0825	30.946214	3233.7971	-0.018508	0.302
	153579.1680	-1.303329	-30.6011	-0.000243	-0.018
60°19'	703367.8553	30.946292	3232.6866	-0.018526	0.301
	153500.9683	-1.303548	-30.6157	-0.000242	-0.018
60°20'	705224.6328	30.946370	3231.5751	-0.018544	0.300
	153422.7554	-1.303768	-30.6302	-0.000241	-0.017
60°21'	707081.4150	30.946448	3230.4624	-0.018562	0.299
	153344.5293	-1.303987	-30.6447	-0.000241	-0.017
60°22'	708938.2019	30.946526	3229.3487	-0.018581	0.298
	153266.2901	-1.304206	-30.6592	-0.000240	-0.017
60°23'	710794.9935	30.946604	3228.2339	-0.018599	0.297
	153188.0378	-1.304425	-30.6736	-0.000239	-0.017
60°24'	712651.7898	30.946682	3227.1179	-0.018617	0.295
	153109.7723	-1.304644	-30.6879	-0.000239	-0.017
60°25'	714508.5907	30.946760	3226.0009	-0.018635	0.294
	153031.4937	-1.304862	-30.7022	-0.000238	-0.017
60°26'	716365.3963	30.946838	3224.8828	-0.018654	0.293
	152953.2019	-1.305081	-30.7165	-0.000237	-0.017
60°27'	718222.2066	30.946916	3223.7636	-0.018672	0.292
	152874.8971	-1.305300	-30.7307	-0.000236	-0.017
60°28'	720079.0216	30.946994	3222.6433	-0.018690	0.291
	152796.5791	-1.305518	-30.7449	-0.000236	-0.017
60°29'	721935.8413	30.947072	3221.5218	-0.018708	0.290
	152718.2480	-1.305736	-30.7590	-0.000235	-0.017
60°30'	723792.6656	30.947150	3220.3994	-0.018726	0.289
	152639.9038	-1.305954	-30.7731	-0.000234	-0.017
60°31'	725649.4946	30.947228	3219.2758	-0.018745	0.288
	152561.5466	-1.306173	-30.7872	-0.000233	-0.017
60°32'	727506.3283	30.947306	3218.1511	-0.018763	0.287
	152483.1762	-1.306391	-30.8012	-0.000233	-0.017
60°33'	729363.1667	30.947384	3217.0253	-0.018781	0.286
	152404.7928	-1.306608	-30.8151	-0.000232	-0.017
60°34'	731220.0097	30.947461	3215.8984	-0.018799	0.285
	152326.3963	-1.306826	-30.8291	-0.000231	-0.017
60°35'	733076.8574	30.947539	3214.7705	-0.018817	0.284
	152247.9867	-1.307044	-30.8429	-0.000231	-0.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
60°36'	734933.7097	30.947617	3213.6414	-0.018836	0.283
	152169.5641	-1.307261	-30.8568	-0.000230	-0.017
60°37'	736790.5667	30.947695	3212.5113	-0.018854	0.282
	152091.1284	-1.307479	-30.8706	-0.000229	-0.017
60°38'	738647.4284	30.947772	3211.3801	-0.018872	0.281
	152012.6797	-1.307696	-30.8843	-0.000228	-0.017
60°39'	740504.2947	30.947850	3210.2478	-0.018890	0.280
	151934.2179	-1.307913	-30.8980	-0.000228	-0.017
60°40'	742361.1657	30.947927	3209.1144	-0.018908	0.279
	151855.7431	-1.308130	-30.9117	-0.000227	-0.017
60°41'	744218.0414	30.948005	3207.9799	-0.018926	0.278
	151777.2553	-1.308347	-30.9253	-0.000226	-0.017
60°42'	746074.9217	30.948083	3206.8443	-0.018945	0.277
	151698.7544	-1.308564	-30.9388	-0.000225	-0.017
60°43'	747931.8066	30.948160	3205.7076	-0.018963	0.276
	151620.2406	-1.308781	-30.9524	-0.000225	-0.017
60°44'	749788.6962	30.948238	3204.5698	-0.018981	0.275
	151541.7137	-1.308998	-30.9658	-0.000224	-0.017
60°45'	751645.5905	30.948315	3203.4310	-0.018999	0.274
	151463.1739	-1.309214	-30.9793	-0.000223	-0.017
60°46'	753502.4894	30.948393	3202.2911	-0.019017	0.273
	151384.6210	-1.309431	-30.9927	-0.000222	-0.017
60°47'	755359.3929	30.948470	3201.1500	-0.019035	0.271
	151306.0552	-1.309647	-31.0060	-0.000222	-0.017
60°48'	757216.3011	30.948547	3200.0079	-0.019053	0.270
	151227.4764	-1.309863	-31.0193	-0.000221	-0.017
60°49'	759073.2140	30.948625	3198.8647	-0.019071	0.269
	151148.8846	-1.310079	-31.0326	-0.000220	-0.017
60°50'	760930.1315	30.948702	3197.7204	-0.019089	0.268
	151070.2798	-1.310295	-31.0458	-0.000220	-0.017
60°51'	762787.0536	30.948779	3196.5751	-0.019107	0.267
	150991.6621	-1.310511	-31.0590	-0.000219	-0.017
60°52'	764643.9803	30.948857	3195.4286	-0.019126	0.266
	150913.0315	-1.310727	-31.0721	-0.000218	-0.017
60°53'	766500.9117	30.948934	3194.2811	-0.019144	0.265
	150834.3879	-1.310942	-31.0852	-0.000217	-0.017
60°54'	768357.8478	30.949011	3193.1325	-0.019162	0.264
	150755.7313	-1.311158	-31.0982	-0.000217	-0.017
60°55'	770214.7884	30.949088	3191.9828	-0.019180	0.263
	150677.0618	-1.311373	-31.1112	-0.000216	-0.017
60°56'	772071.7337	30.949165	3190.8320	-0.019198	0.262
	150598.3794	-1.311589	-31.1242	-0.000215	-0.017
60°57'	773928.6837	30.949243	3189.6801	-0.019216	0.261
	150519.6841	-1.311804	-31.1371	-0.000214	-0.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
60°58'	775785.6382	30.949320	3188.5272	-0.019234	0.260
	150440.9759	-1.312019	-31.1500	-0.000214	-0.017
60°59'	777642.5974	30.949397	3187.3731	-0.019252	0.259
	150362.2547	-1.312234	-31.1628	-0.000213	-0.017
61° 0'	779499.5612	30.949474	3186.2180	-0.019270	0.258
	150283.5207	-1.312449	-31.1756	-0.000212	-0.017
61° 1'	781356.5296	30.949551	3185.0618	-0.019288	0.257
	150204.7738	-1.312664	-31.1883	-0.000212	-0.017
61° 2'	783213.5027	30.949628	3183.9046	-0.019306	0.256
	150126.0139	-1.312878	-31.2010	-0.000211	-0.016
61° 3'	785070.4804	30.949705	3182.7462	-0.019324	0.255
	150047.2412	-1.313093	-31.2136	-0.000210	-0.016
61° 4'	786927.4627	30.949782	3181.5868	-0.019342	0.254
	149968.4557	-1.313307	-31.2262	-0.000209	-0.016
61° 5'	788784.4496	30.949859	3180.4262	-0.019360	0.253
	149889.6572	-1.313522	-31.2388	-0.000209	-0.016
61° 6'	790641.4411	30.949936	3179.2646	-0.019378	0.252
	149810.8459	-1.313736	-31.2513	-0.000208	-0.016
61° 7'	792498.4372	30.950013	3178.1020	-0.019396	0.251
	149732.0218	-1.313950	-31.2638	-0.000207	-0.016
61° 8'	794355.4380	30.950089	3176.9382	-0.019414	0.250
	149653.1848	-1.314164	-31.2762	-0.000206	-0.016
61° 9'	796212.4434	30.950166	3175.7734	-0.019432	0.249
	149574.3350	-1.314378	-31.2886	-0.000206	-0.016
61°10'	798069.4533	30.950243	3174.6075	-0.019450	0.248
	149495.4723	-1.314591	-31.3010	-0.000205	-0.016
61°11'	799926.4679	30.950320	3173.4405	-0.019468	0.247
	149416.5968	-1.314805	-31.3132	-0.000204	-0.016
61°12'	801783.4871	30.950396	3172.2724	-0.019486	0.246
	149337.7085	-1.315019	-31.3255	-0.000204	-0.016
61°13'	803640.5109	30.950473	3171.1033	-0.019504	0.245
	149258.8074	-1.315232	-31.3377	-0.000203	-0.016
61°14'	805497.5393	30.950550	3169.9331	-0.019522	0.244
	149179.8934	-1.315445	-31.3499	-0.000202	-0.016
61°15'	807354.5722	30.950626	3168.7618	-0.019539	0.243
	149100.9667	-1.315659	-31.3620	-0.000201	-0.016
61°16'	809211.6098	30.950703	3167.5894	-0.019557	0.242
	149022.0272	-1.315872	-31.3741	-0.000201	-0.016
61°17'	811068.6520	30.950780	3166.4160	-0.019575	0.241
	148943.0749	-1.316085	-31.3861	-0.000200	-0.016
61°18'	812925.6988	30.950856	3165.2414	-0.019593	0.240
	148864.1098	-1.316298	-31.3981	-0.000199	-0.016
61°19'	814782.7502	30.950933	3164.0659	-0.019611	0.239
	148785.1320	-1.316510	-31.4101	-0.000198	-0.016

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
61°20'	816639.8061	30.951009	3162.8892	-0.019629	0.238
	148706.1413	-1.316723	-31.4220	-0.000198	-0.016
61°21'	818496.8667	30.951086	3161.7115	-0.019647	0.237
	148627.1380	-1.316935	-31.4338	-0.000197	-0.016
61°22'	820353.9318	30.951162	3160.5326	-0.019665	0.236
	148548.1218	-1.317148	-31.4456	-0.000196	-0.016
61°23'	822211.0016	30.951239	3159.3528	-0.019683	0.235
	148469.0930	-1.317360	-31.4574	-0.000195	-0.016
61°24'	824068.0759	30.951315	3158.1718	-0.019700	0.234
	148390.0513	-1.317572	-31.4691	-0.000195	-0.016
61°25'	825925.1548	30.951391	3156.9898	-0.019718	0.233
	148310.9970	-1.317785	-31.4808	-0.000194	-0.016
61°26'	827782.2382	30.951468	3155.8067	-0.019736	0.232
	148231.9299	-1.317996	-31.4925	-0.000193	-0.016
61°27'	829639.3263	30.951544	3154.6225	-0.019754	0.231
	148152.8501	-1.318208	-31.5041	-0.000193	-0.016
61°28'	831496.4189	30.951620	3153.4373	-0.019772	0.230
	148073.7576	-1.318420	-31.5156	-0.000192	-0.016
61°29'	833353.5162	30.951696	3152.2509	-0.019790	0.229
	147994.6524	-1.318632	-31.5271	-0.000191	-0.016
61°30'	835210.6179	30.951773	3151.0636	-0.019808	0.228
	147915.5345	-1.318843	-31.5386	-0.000190	-0.016
61°31'	837067.7243	30.951849	3149.8751	-0.019825	0.227
	147836.4039	-1.319055	-31.5500	-0.000190	-0.016
61°32'	838924.8352	30.951925	3148.6856	-0.019843	0.226
	147757.2607	-1.319266	-31.5614	-0.000189	-0.016
61°33'	840781.9507	30.952001	3147.4950	-0.019861	0.225
	147678.1047	-1.319477	-31.5727	-0.000188	-0.016
61°34'	842639.0708	30.952077	3146.3033	-0.019879	0.224
	147598.9361	-1.319688	-31.5840	-0.000187	-0.016
61°35'	844496.1954	30.952153	3145.1106	-0.019897	0.223
	147519.7548	-1.319899	-31.5953	-0.000187	-0.016
61°36'	846353.3246	30.952229	3143.9168	-0.019914	0.222
	147440.5608	-1.320110	-31.6065	-0.000186	-0.016
61°37'	848210.4584	30.952305	3142.7220	-0.019932	0.221
	147361.3542	-1.320321	-31.6176	-0.000185	-0.016
61°38'	850067.5967	30.952381	3141.5260	-0.019950	0.220
	147282.1350	-1.320531	-31.6288	-0.000185	-0.016
61°39'	851924.7396	30.952457	3140.3290	-0.019968	0.219
	147202.9031	-1.320742	-31.6398	-0.000184	-0.016
61°40'	853781.8871	30.952533	3139.1310	-0.019985	0.218
	147123.6586	-1.320952	-31.6509	-0.000183	-0.016
61°41'	855639.0391	30.952609	3137.9319	-0.020003	0.217
	147044.4014	-1.321163	-31.6618	-0.000182	-0.016

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
61°42'	857496.1956	30.952685	3136.7317	-0.020021	0.216
	146965.1316	-1.321373	-31.6728	-0.000182	-0.016
61°43'	859353.3567	30.952761	3135.5304	-0.020039	0.215
	146885.8493	-1.321583	-31.6837	-0.000181	-0.016
61°44'	861210.5224	30.952837	3134.3281	-0.020056	0.214
	146806.5543	-1.321793	-31.6945	-0.000180	-0.015
61°45'	863067.6926	30.952913	3133.1247	-0.020074	0.213
	146727.2467	-1.322003	-31.7053	-0.000179	-0.015
61°46'	864924.8673	30.952988	3131.9203	-0.020092	0.212
	146647.9266	-1.322213	-31.7161	-0.000179	-0.015
61°47'	866782.0466	30.953064	3130.7148	-0.020110	0.211
	146568.5938	-1.322422	-31.7268	-0.000178	-0.015
61°48'	868639.2305	30.953140	3129.5082	-0.020127	0.210
	146489.2485	-1.322632	-31.7375	-0.000177	-0.015
61°49'	870496.4188	30.953215	3128.3006	-0.020145	0.209
	146409.8906	-1.322841	-31.7482	-0.000177	-0.015
61°50'	872353.6118	30.953291	3127.0919	-0.020163	0.208
	146330.5201	-1.323050	-31.7587	-0.000176	-0.015
61°51'	874210.8092	30.953367	3125.8821	-0.020180	0.207
	146251.1371	-1.323260	-31.7693	-0.000175	-0.015
61°52'	876068.0112	30.953442	3124.6713	-0.020198	0.206
	146171.7415	-1.323469	-31.7798	-0.000174	-0.015
61°53'	877925.2177	30.953518	3123.4594	-0.020216	0.205
	146092.3334	-1.323678	-31.7903	-0.000174	-0.015
61°54'	879782.4288	30.953593	3122.2465	-0.020233	0.204
	146012.9128	-1.323886	-31.8007	-0.000173	-0.015
61°55'	881639.6444	30.953669	3121.0325	-0.020251	0.203
	145933.4796	-1.324095	-31.8110	-0.000172	-0.015
61°56'	883496.8645	30.953744	3119.8174	-0.020269	0.202
	145854.0339	-1.324304	-31.8214	-0.000171	-0.015
61°57'	885354.0892	30.953820	3118.6013	-0.020286	0.201
	145774.5757	-1.324512	-31.8317	-0.000171	-0.015
61°58'	887211.3184	30.953895	3117.3841	-0.020304	0.200
	145695.1049	-1.324721	-31.8419	-0.000170	-0.015
61°59'	889068.5521	30.953970	3116.1659	-0.020321	0.199
	145615.6217	-1.324929	-31.8521	-0.000169	-0.015
62° 0'	890925.7903	30.954046	3114.9466	-0.020339	0.199
	145536.1260	-1.325137	-31.8623	-0.000169	-0.015
62° 1'	892783.0331	30.954121	3113.7263	-0.020357	0.198
	145456.6177	-1.325345	-31.8724	-0.000168	-0.015
62° 2'	894640.2803	30.954196	3112.5049	-0.020374	0.197
	145377.0970	-1.325553	-31.8824	-0.000167	-0.015
62° 3'	896497.5321	30.954272	3111.2824	-0.020392	0.196
	145297.5638	-1.325761	-31.8925	-0.000166	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0016

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
62° 4'	898354.7884	30.954347	3110.0589	-0.020410	0.195
	145218.0182	-1.325969	-31.9024	-0.000166	-0.015
62° 5'	900212.0492	30.954422	3108.8343	-0.020427	0.194
	145138.4601	-1.326176	-31.9124	-0.000165	-0.015
62° 6'	902069.3146	30.954497	3107.6087	-0.020445	0.193
	145058.8895	-1.326384	-31.9223	-0.000164	-0.015
62° 7'	903926.5844	30.954572	3106.3820	-0.020462	0.192
	144979.3065	-1.326591	-31.9321	-0.000163	-0.015
62° 8'	905783.8588	30.954648	3105.1543	-0.020480	0.191
	144899.7110	-1.326798	-31.9419	-0.000163	-0.015
62° 9'	907641.1376	30.954723	3103.9255	-0.020497	0.190
	144820.1031	-1.327005	-31.9517	-0.000162	-0.015
62°10'	909498.4210	30.954798	3102.6956	-0.020515	0.189
	144740.4828	-1.327213	-31.9614	-0.000161	-0.015
62°11'	911355.7088	30.954873	3101.4647	-0.020532	0.188
	144660.8500	-1.327419	-31.9711	-0.000161	-0.015
62°12'	913213.0012	30.954948	3100.2328	-0.020550	0.187
	144581.2049	-1.327626	-31.9807	-0.000160	-0.015
62°13'	915070.2981	30.955023	3098.9998	-0.020568	0.186
	144501.5473	-1.327833	-31.9903	-0.000159	-0.015
62°14'	916927.5994	30.955098	3097.7657	-0.020585	0.185
	144421.8773	-1.328040	-31.9999	-0.000158	-0.015
62°15'	918784.9053	30.955173	3096.5306	-0.020603	0.184
	144342.1949	-1.328246	-32.0094	-0.000158	-0.015
62°16'	920642.2157	30.955247	3095.2945	-0.020620	0.183
	144262.5002	-1.328452	-32.0188	-0.000157	-0.015
62°17'	922499.5305	30.955322	3094.0573	-0.020638	0.182
	144182.7930	-1.328659	-32.0282	-0.000156	-0.015
62°18'	924356.8498	30.955397	3092.8190	-0.020655	0.181
	144103.0735	-1.328865	-32.0376	-0.000155	-0.015
62°19'	926214.1737	30.955472	3091.5797	-0.020673	0.180
	144023.3416	-1.329071	-32.0469	-0.000155	-0.015
62°20'	928071.5020	30.955547	3090.3393	-0.020690	0.179
	143943.5974	-1.329277	-32.0562	-0.000154	-0.015
62°21'	929928.8348	30.955621	3089.0979	-0.020708	0.178
	143863.8408	-1.329483	-32.0654	-0.000153	-0.015
62°22'	931786.1721	30.955696	3087.8555	-0.020725	0.178
	143784.0718	-1.329688	-32.0746	-0.000153	-0.015
62°23'	933643.5138	30.955771	3086.6120	-0.020742	0.177
	143704.2905	-1.329894	-32.0838	-0.000152	-0.015
62°24'	935500.8601	30.955845	3085.3674	-0.020760	0.176
	143624.4969	-1.330099	-32.0929	-0.000151	-0.015
62°25'	937358.2108	30.955920	3084.1218	-0.020777	0.175
	143544.6910	-1.330305	-32.1020	-0.000150	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0009	0.0014	0.0015

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
62°26'	939215.5660	30.955995	3082.8752	-0.020795	0.174
	143464.8727	-1.330510	-32.1110	-0.000150	-0.015
62°27'	941072.9257	30.956069	3081.6275	-0.020812	0.173
	143385.0421	-1.330715	-32.1200	-0.000149	-0.014
62°28'	942930.2898	30.956144	3080.3788	-0.020830	0.172
	143305.1992	-1.330920	-32.1289	-0.000148	-0.014
62°29'	944787.6585	30.956218	3079.1290	-0.020847	0.171
	143225.3440	-1.331125	-32.1378	-0.000147	-0.014
62°30'	946645.0316	30.956293	3077.8782	-0.020865	0.170
	143145.4765	-1.331330	-32.1466	-0.000147	-0.014
62°31'	948502.4091	30.956367	3076.6263	-0.020882	0.169
	143065.5967	-1.331534	-32.1554	-0.000146	-0.014
62°32'	950359.7911	30.956441	3075.3734	-0.020899	0.168
	142985.7047	-1.331739	-32.1642	-0.000145	-0.014
62°33'	952217.1776	30.956516	3074.1194	-0.020917	0.167
	142905.8003	-1.331943	-32.1729	-0.000145	-0.014
62°34'	954074.5686	30.956590	3072.8644	-0.020934	0.166
	142825.8837	-1.332148	-32.1816	-0.000144	-0.014
62°35'	955931.9640	30.956665	3071.6084	-0.020951	0.165
	142745.9549	-1.332352	-32.1902	-0.000143	-0.014
62°36'	957789.3639	30.956739	3070.3513	-0.020969	0.164
	142666.0138	-1.332556	-32.1988	-0.000142	-0.014
62°37'	959646.7682	30.956813	3069.0931	-0.020986	0.164
	142586.0604	-1.332760	-32.2073	-0.000142	-0.014
62°38'	961504.1770	30.956887	3067.8340	-0.021004	0.163
	142506.0948	-1.332964	-32.2158	-0.000141	-0.014
62°39'	963361.5902	30.956961	3066.5737	-0.021021	0.162
	142426.1170	-1.333168	-32.2243	-0.000140	-0.014
62°40'	965219.0079	30.957036	3065.3125	-0.021038	0.161
	142346.1269	-1.333371	-32.2327	-0.000139	-0.014
62°41'	967076.4300	30.957110	3064.0502	-0.021056	0.160
	142266.1246	-1.333575	-32.2411	-0.000139	-0.014
62°42'	968933.8566	30.957184	3062.7869	-0.021073	0.159
	142186.1101	-1.333778	-32.2494	-0.000138	-0.014
62°43'	970791.2877	30.957258	3061.5225	-0.021090	0.158
	142106.0834	-1.333982	-32.2577	-0.000137	-0.014
62°44'	972648.7231	30.957332	3060.2571	-0.021108	0.157
	142026.0445	-1.334185	-32.2659	-0.000137	-0.014
62°45'	974506.1631	30.957406	3058.9906	-0.021125	0.156
	141945.9935	-1.334388	-32.2741	-0.000136	-0.014
62°46'	976363.6074	30.957480	3057.7231	-0.021142	0.155
	141865.9302	-1.334591	-32.2822	-0.000135	-0.014
62°47'	978221.0562	30.957554	3056.4546	-0.021159	0.154
	141785.8547	-1.334794	-32.2904	-0.000134	-0.014

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0008	0.0014	0.0015

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
62°48'	980078.5094	30.957628	3055.1850	-0.021177	0.153
	141705.7671	-1.334996	-32.2984	-0.000134	-0.014
62°49'	981935.9671	30.957702	3053.9144	-0.021194	0.152
	141625.6673	-1.335199	-32.3064	-0.000133	-0.014
62°50'	983793.4292	30.957776	3052.6428	-0.021211	0.152
	141545.5554	-1.335402	-32.3144	-0.000132	-0.014
62°51'	985650.8957	30.957849	3051.3701	-0.021229	0.151
	141465.4313	-1.335604	-32.3223	-0.000131	-0.014
62°52'	987508.3667	30.957923	3050.0964	-0.021246	0.150
	141385.2950	-1.335806	-32.3302	-0.000131	-0.014
62°53'	989365.8421	30.957997	3048.8216	-0.021263	0.149
	141305.1466	-1.336009	-32.3381	-0.000130	-0.014
62°54'	991223.3219	30.958071	3047.5459	-0.021280	0.148
	141224.9861	-1.336211	-32.3459	-0.000129	-0.014
62°55'	993080.8062	30.958144	3046.2690	-0.021298	0.147
	141144.8135	-1.336413	-32.3536	-0.000129	-0.014
62°56'	994938.2948	30.958218	3044.9912	-0.021315	0.146
	141064.6288	-1.336614	-32.3614	-0.000128	-0.014
62°57'	996795.7879	30.958292	3043.7123	-0.021332	0.145
	140984.4319	-1.336816	-32.3690	-0.000127	-0.014
62°58'	998653.2854	30.958365	3042.4324	-0.021349	0.144
	140904.2229	-1.337018	-32.3767	-0.000126	-0.014
62°59'	1000510.7873	30.958439	3041.1514	-0.021366	0.143
	140824.0019	-1.337219	-32.3842	-0.000126	-0.014
63° 0'	1002368.2937	30.958512	3039.8694	-0.021384	0.142
	140743.7687	-1.337421	-32.3918	-0.000125	-0.014
63° 1'	1004225.8044	30.958586	3038.5864	-0.021401	0.142
	140663.5235	-1.337622	-32.3993	-0.000124	-0.014
63° 2'	1006083.3196	30.958659	3037.3024	-0.021418	0.141
	140583.2662	-1.337823	-32.4067	-0.000124	-0.014
63° 3'	1007940.8391	30.958733	3036.0173	-0.021435	0.140
	140502.9968	-1.338024	-32.4141	-0.000123	-0.014
63° 4'	1009798.3631	30.958806	3034.7312	-0.021452	0.139
	140422.7153	-1.338225	-32.4215	-0.000122	-0.014
63° 5'	1011655.8915	30.958880	3033.4440	-0.021469	0.138
	140342.4218	-1.338426	-32.4288	-0.000121	-0.014
63° 6'	1013513.4243	30.958953	3032.1559	-0.021487	0.137
	140262.1163	-1.338627	-32.4361	-0.000121	-0.014
63° 7'	1015370.9614	30.959026	3030.8667	-0.021504	0.136
	140181.7987	-1.338827	-32.4433	-0.000120	-0.014
63° 8'	1017228.5030	30.959100	3029.5764	-0.021521	0.135
	140101.4691	-1.339028	-32.4505	-0.000119	-0.014
63° 9'	1019086.0490	30.959173	3028.2852	-0.021538	0.134
	140021.1274	-1.339228	-32.4577	-0.000118	-0.013

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0015

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
63°10'	1020943.5994	30.959246	3026.9929	-0.021555	0.133
	139940.7737	-1.339428	-32.4648	-0.000118	-0.013
63°11'	1022801.1542	30.959319	3025.6996	-0.021572	0.133
	139860.4080	-1.339628	-32.4719	-0.000117	-0.013
63°12'	1024658.7133	30.959393	3024.4053	-0.021589	0.132
	139780.0303	-1.339828	-32.4789	-0.000116	-0.013
63°13'	1026516.2769	30.959466	3023.1099	-0.021607	0.131
	139699.6406	-1.340028	-32.4859	-0.000116	-0.013
63°14'	1028373.8448	30.959539	3021.8135	-0.021624	0.130
	139619.2389	-1.340228	-32.4928	-0.000115	-0.013
63°15'	1030231.4172	30.959612	3020.5161	-0.021641	0.129
	139538.8252	-1.340428	-32.4997	-0.000114	-0.013
63°16'	1032088.9939	30.959685	3019.2176	-0.021658	0.128
	139458.3996	-1.340627	-32.5065	-0.000113	-0.013
63°17'	1033946.5750	30.959758	3017.9182	-0.021675	0.127
	139377.9619	-1.340827	-32.5133	-0.000113	-0.013
63°18'	1035804.1605	30.959831	3016.6177	-0.021692	0.126
	139297.5123	-1.341026	-32.5201	-0.000112	-0.013
63°19'	1037661.7503	30.959904	3015.3162	-0.021709	0.125
	139217.0507	-1.341225	-32.5268	-0.000111	-0.013
63°20'	1039519.3446	30.959977	3014.0136	-0.021726	0.125
	139136.5772	-1.341424	-32.5335	-0.000111	-0.013
63°21'	1041376.9432	30.960050	3012.7101	-0.021743	0.124
	139056.0917	-1.341623	-32.5401	-0.000110	-0.013
63°22'	1043234.5462	30.960123	3011.4055	-0.021760	0.123
	138975.5943	-1.341822	-32.5467	-0.000109	-0.013
63°23'	1045092.1535	30.960196	3010.0999	-0.021777	0.122
	138895.0850	-1.342021	-32.5532	-0.000108	-0.013
63°24'	1046949.7653	30.960268	3008.7932	-0.021794	0.121
	138814.5637	-1.342220	-32.5597	-0.000108	-0.013
63°25'	1048807.3814	30.960341	3007.4856	-0.021811	0.120
	138734.0305	-1.342418	-32.5662	-0.000107	-0.013
63°26'	1050665.0018	30.960414	3006.1769	-0.021828	0.119
	138653.4854	-1.342617	-32.5726	-0.000106	-0.013
63°27'	1052522.6266	30.960487	3004.8672	-0.021845	0.118
	138572.9284	-1.342815	-32.5790	-0.000105	-0.013
63°28'	1054380.2558	30.960559	3003.5565	-0.021862	0.118
	138492.3595	-1.343013	-32.5853	-0.000105	-0.013
63°29'	1056237.8894	30.960632	3002.2448	-0.021879	0.117
	138411.7787	-1.343211	-32.5916	-0.000104	-0.013
63°30'	1058095.5273	30.960704	3000.9320	-0.021896	0.116
	138331.1860	-1.343409	-32.5978	-0.000103	-0.013
63°31'	1059953.1696	30.960777	2999.6182	-0.021913	0.115
	138250.5815	-1.343607	-32.6040	-0.000103	-0.013

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0015

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
63°32'	1061810.8162	30.960850	2998.3034	-0.021930	0.114
	138169.9650	-1.343805	-32.6102	-0.000102	-0.013
63°33'	1063668.4672	30.960922	2996.9876	-0.021947	0.113
	138089.3367	-1.344003	-32.6163	-0.000101	-0.013
63°34'	1065526.1225	30.960995	2995.6708	-0.021964	0.112
	138008.6966	-1.344200	-32.6224	-0.000100	-0.013
63°35'	1067383.7822	30.961067	2994.3530	-0.021981	0.111
	137928.0446	-1.344398	-32.6284	-0.00010	-0.013
63°36'	1069241.4462	30.961139	2993.0341	-0.021998	0.111
	137847.3807	-1.344595	-32.6344	-0.000099	-0.013
63°37'	1071099.1146	30.961212	2991.7142	-0.022015	0.110
	137766.7050	-1.344792	-32.6403	-0.000098	-0.013
63°38'	1072956.7873	30.961284	2990.3933	-0.022032	0.109
	137686.0175	-1.344989	-32.6462	-0.000098	-0.013
63°39'	1074814.4643	30.961357	2989.0714	-0.022049	0.108
	137605.3182	-1.345186	-32.6521	-0.000097	-0.013
63°40'	1076672.1457	30.961429	2987.7485	-0.022066	0.107
	137524.6070	-1.345383	-32.6579	-0.000096	-0.013
63°41'	1078529.8315	30.961501	2986.4246	-0.022082	0.106
	137443.8841	-1.345580	-32.6636	-0.000095	-0.013
63°42'	1080387.5215	30.961573	2985.0996	-0.022099	0.105
	137363.1493	-1.345776	-32.6693	-0.000095	-0.013
63°43'	1082245.2159	30.961646	2983.7737	-0.022116	0.105
	137282.4027	-1.345973	-32.6750	-0.000094	-0.013
63°44'	1084102.9147	30.961718	2982.4467	-0.022133	0.104
	137201.6444	-1.346169	-32.6807	-0.000093	-0.013
63°45'	1085960.6177	30.961790	2981.1187	-0.022150	0.103
	137120.8742	-1.346365	-32.6863	-0.000092	-0.013
63°46'	1087818.3251	30.961862	2979.7897	-0.022167	0.102
	137040.0923	-1.346561	-32.6918	-0.000092	-0.013
63°47'	1089676.0368	30.961934	2978.4597	-0.022184	0.101
	136959.2986	-1.346757	-32.6973	-0.000091	-0.013
63°48'	1091533.7529	30.962006	2977.1287	-0.022201	0.100
	136878.4932	-1.346953	-32.7028	-0.000090	-0.013
63°49'	1093391.4733	30.962078	2975.7966	-0.022217	0.099
	136797.6760	-1.347149	-32.7082	-0.000090	-0.013
63°50'	1095249.1979	30.962150	2974.4636	-0.022234	0.099
	136716.8470	-1.347345	-32.7136	-0.000089	-0.013
63°51'	1097106.9269	30.962222	2973.1295	-0.022251	0.098
	136636.0063	-1.347540	-32.7189	-0.000088	-0.013
63°52'	1098964.6603	30.962294	2971.7945	-0.022268	0.097
	136555.1539	-1.347736	-32.7242	-0.000087	-0.012
63°53'	1100822.3979	30.962366	2970.4584	-0.022285	0.096
	136474.2898	-1.347931	-32.7294	-0.000087	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0015

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
63°54'	1102680.1399	30.962438	2969.1213	-0.022301	0.095
	136393.4139	-1.348126	-32.7346	-0.000086	-0.012
63°55'	1104537.8861	30.962510	2967.7832	-0.022318	0.094
	136312.5263	-1.348322	-32.7398	-0.000085	-0.012
63°56'	1106395.6367	30.962581	2966.4441	-0.022335	0.093
	136231.6270	-1.348517	-32.7449	-0.000085	-0.012
63°57'	1108253.3916	30.962653	2965.1040	-0.022352	0.093
	136150.7160	-1.348711	-32.7500	-0.000084	-0.012
63°58'	1110111.1507	30.962725	2963.7629	-0.022369	0.092
	136069.7933	-1.348906	-32.7550	-0.000083	-0.012
63°59'	1111968.9142	30.962796	2962.4208	-0.022385	0.091
	135988.8590	-1.349101	-32.7600	-0.000082	-0.012
64° 0'	1113826.6820	30.962868	2961.0777	-0.022402	0.090
	135907.9129	-1.349295	-32.7650	-0.000082	-0.012
64° 1'	1115684.4541	30.962940	2959.7336	-0.022419	0.089
	135826.9552	-1.349490	-32.7699	-0.000081	-0.012
64° 2'	1117542.2305	30.963011	2958.3884	-0.022436	0.088
	135745.9858	-1.349684	-32.7747	-0.000080	-0.012
64° 3'	1119400.0112	30.963083	2957.0423	-0.022452	0.088
	135665.0048	-1.349878	-32.7795	-0.000080	-0.012
64° 4'	1121257.7961	30.963154	2955.6951	-0.022469	0.087
	135584.0121	-1.350072	-32.7843	-0.000079	-0.012
64° 5'	1123115.5854	30.963226	2954.3470	-0.022486	0.086
	135503.0077	-1.350266	-32.7890	-0.000078	-0.012
64° 6'	1124973.3790	30.963297	2952.9979	-0.022502	0.085
	135421.9917	-1.350460	-32.7937	-0.000077	-0.012
64° 7'	1126831.1768	30.963369	2951.6477	-0.022519	0.084
	135340.9641	-1.350654	-32.7984	-0.000077	-0.012
64° 8'	1128688.9789	30.963440	2950.2966	-0.022536	0.083
	135259.9249	-1.350848	-32.8030	-0.000076	-0.012
64° 9'	1130546.7853	30.963512	2948.9444	-0.022553	0.083
	135178.8740	-1.351041	-32.8075	-0.000075	-0.012
64°10'	1132404.5960	30.963583	2947.5912	-0.022569	0.082
	135097.8116	-1.351234	-32.8120	-0.000075	-0.012
64°11'	1134262.4110	30.963654	2946.2371	-0.022586	0.081
	135016.7375	-1.351428	-32.8165	-0.000074	-0.012
64°12'	1136120.2303	30.963725	2944.8819	-0.022603	0.080
	134935.6518	-1.351621	-32.8209	-0.000073	-0.012
64°13'	1137978.0538	30.963797	2943.5258	-0.022619	0.079
	134854.5546	-1.351814	-32.8253	-0.000072	-0.012
64°14'	1139835.8816	30.963868	2942.1686	-0.022636	0.078
	134773.4457	-1.352007	-32.8297	-0.000072	-0.012
64°15'	1141693.7137	30.963939	2940.8105	-0.022653	0.078
	134692.3253	-1.352200	-32.8340	-0.000071	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0014

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
64°16'	1143551.5500	30.964010	2939.4513	-0.022669	0.077
	134611.1933	-1.352392	-32.8382	-0.000070	-0.012
64°17'	1145409.3906	30.964081	2938.0912	-0.022686	0.076
	134530.0498	-1.352585	-32.8424	-0.000070	-0.012
64°18'	1147267.2355	30.964152	2936.7300	-0.022702	0.075
	134448.8947	-1.352777	-32.8466	-0.000069	-0.012
64°19'	1149125.0846	30.964223	2935.3679	-0.022719	0.074
	134367.7280	-1.352970	-32.8507	-0.000068	-0.012
64°20'	1150982.9380	30.964294	2934.0047	-0.022736	0.073
	134286.5498	-1.353162	-32.8548	-0.000067	-0.012
64°21'	1152840.7957	30.964365	2932.6406	-0.022752	0.073
	134205.3601	-1.353354	-32.8589	-0.000067	-0.012
64°22'	1154698.6576	30.964436	2931.2755	-0.022769	0.072
	134124.1589	-1.353546	-32.8629	-0.000066	-0.012
64°23'	1156556.5238	30.964507	2929.9093	-0.022785	0.071
	134042.9461	-1.353738	-32.8668	-0.000065	-0.012
64°24'	1158414.3943	30.964578	2928.5422	-0.022802	0.070
	133961.7218	-1.353930	-32.8707	-0.000065	-0.012
64°25'	1160272.2689	30.964649	2927.1741	-0.022819	0.069
	133880.4860	-1.354122	-32.8746	-0.000064	-0.012
64°26'	1162130.1479	30.964720	2925.8050	-0.022835	0.069
	133799.2387	-1.354313	-32.8784	-0.000063	-0.012
64°27'	1163988.0311	30.964791	2924.4349	-0.022852	0.068
	133717.9799	-1.354505	-32.8822	-0.000062	-0.012
64°28'	1165845.9185	30.964861	2923.0638	-0.022868	0.067
	133636.7096	-1.354696	-32.8860	-0.000062	-0.012
64°29'	1167703.8102	30.964932	2921.6917	-0.022885	0.066
	133555.4279	-1.354887	-32.8897	-0.000061	-0.012
64°30'	1169561.7061	30.965003	2920.3186	-0.022901	0.065
	133474.1347	-1.355078	-32.8933	-0.000060	-0.012
64°31'	1171419.6063	30.965073	2918.9445	-0.022918	0.064
	133392.8300	-1.355269	-32.8969	-0.000060	-0.012
64°32'	1173277.5107	30.965144	2917.5695	-0.022934	0.064
	133311.5138	-1.355460	-32.9005	-0.000059	-0.012
64°33'	1175135.4193	30.965215	2916.1934	-0.022951	0.063
	133230.1862	-1.355651	-32.9040	-0.000058	-0.012
64°34'	1176993.3322	30.965285	2914.8164	-0.022967	0.062
	133148.8472	-1.355841	-32.9075	-0.000057	-0.012
64°35'	1178851.2493	30.965356	2913.4383	-0.022984	0.061
	133067.4967	-1.356032	-32.9109	-0.000057	-0.012
64°36'	1180709.1706	30.965426	2912.0593	-0.023000	0.060
	132986.1348	-1.356222	-32.9143	-0.000056	-0.011
64°37'	1182567.0962	30.965496	2910.6793	-0.023017	0.060
	132904.7614	-1.356413	-32.9177	-0.000055	-0.011

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0014

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
64°38'	1184425.0259	30.965567	2909.2983	-0.023033	0.059
	132823.3767	-1.356603	-32.9210	-0.000055	-0.011
64°39'	1186282.9600	30.965637	2907.9163	-0.023050	0.058
	132741.9805	-1.356793	-32.9243	-0.000054	-0.011
64°40'	1188140.8982	30.965708	2906.5333	-0.023066	0.057
	132660.5729	-1.356983	-32.9275	-0.000053	-0.011
64°41'	1189998.8407	30.965778	2905.1493	-0.023083	0.056
	132579.1540	-1.357173	-32.9307	-0.000052	-0.011
64°42'	1191856.7873	30.965848	2903.7644	-0.023099	0.056
	132497.7236	-1.357362	-32.9338	-0.000052	-0.011
64°43'	1193714.7382	30.965918	2902.3785	-0.023115	0.055
	132416.2819	-1.357552	-32.9369	-0.000051	-0.011
64°44'	1195572.6933	30.965989	2900.9915	-0.023132	0.054
	132334.8288	-1.357741	-32.9400	-0.000050	-0.011
64°45'	1197430.6526	30.966059	2899.6036	-0.023148	0.053
	132253.3643	-1.357931	-32.9430	-0.000050	-0.011
64°46'	1199288.6162	30.966129	2898.2147	-0.023165	0.052
	132171.8884	-1.358120	-32.9460	-0.000049	-0.011
64°47'	1201146.5839	30.966199	2896.8249	-0.023181	0.052
	132090.4012	-1.358309	-32.9489	-0.000048	-0.011
64°48'	1203004.5559	30.966269	2895.4340	-0.023197	0.051
	132008.9027	-1.358498	-32.9518	-0.000047	-0.011
64°49'	1204862.5320	30.966339	2894.0422	-0.023214	0.050
	131927.3928	-1.358687	-32.9546	-0.000047	-0.011
64°50'	1206720.5124	30.966409	2892.6493	-0.023230	0.049
	131845.8716	-1.358876	-32.9574	-0.000046	-0.011
64°51'	1208578.4969	30.966479	2891.2555	-0.023246	0.049
	131764.3390	-1.359064	-32.9602	-0.000045	-0.011
64°52'	1210436.4857	30.966549	2889.8607	-0.023263	0.048
	131682.7952	-1.359253	-32.9629	-0.000045	-0.011
64°53'	1212294.4786	30.966619	2888.4650	-0.023279	0.047
	131601.2400	-1.359441	-32.9656	-0.000044	-0.011
64°54'	1214152.4758	30.966689	2887.0682	-0.023296	0.046
	131519.6735	-1.359630	-32.9682	-0.000043	-0.011
64°55'	1216010.4771	30.966759	2885.6705	-0.023312	0.045
	131438.0957	-1.359818	-32.9708	-0.000042	-0.011
64°56'	1217868.4826	30.966829	2884.2718	-0.023328	0.045
	131356.5066	-1.360006	-32.9734	-0.000042	-0.011
64°57'	1219726.4923	30.966898	2882.8721	-0.023345	0.044
	131274.9063	-1.360194	-32.9759	-0.000041	-0.011
64°58'	1221584.5062	30.966968	2881.4714	-0.023361	0.043
	131193.2946	-1.360382	-32.9783	-0.000040	-0.011
64°59'	1223442.5243	30.967038	2880.0698	-0.023377	0.042
	131111.6717	-1.360570	-32.9807	-0.000040	-0.011

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0013	0.0014

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
65° 0'	1225300.5466	30.967107	2878.6671	-0.023393	0.041
	131030.0375	-1.360757	-32.9831	-0.000039	-0.011
65° 1'	1227158.5731	30.967177	2877.2635	-0.023410	0.041
	130948.3921	-1.360945	-32.9854	-0.000038	-0.011
65° 2'	1229016.6037	30.967247	2875.8589	-0.023426	0.040
	130866.7354	-1.361132	-32.9877	-0.000037	-0.011
65° 3'	1230874.6385	30.967316	2874.4534	-0.023442	0.039
	130785.0675	-1.361319	-32.9900	-0.000037	-0.011
65° 4'	1232732.6775	30.967386	2873.0468	-0.023458	0.038
	130703.3883	-1.361507	-32.9922	-0.000036	-0.011
65° 5'	1234590.7206	30.967455	2871.6393	-0.023475	0.038
	130621.6979	-1.361694	-32.9943	-0.000035	-0.011
65° 6'	1236448.7679	30.967525	2870.2309	-0.023491	0.037
	130539.9963	-1.361881	-32.9965	-0.000035	-0.011
65° 7'	1238306.8194	30.967594	2868.8214	-0.023507	0.036
	130458.2834	-1.362067	-32.9985	-0.000034	-0.011
65° 8'	1240164.8751	30.967664	2867.4110	-0.023523	0.035
	130376.5594	-1.362254	-33.0006	-0.000033	-0.011
65° 9'	1242022.9349	30.967733	2865.9996	-0.023540	0.035
	130294.8241	-1.362441	-33.0026	-0.000032	-0.011
65°10'	1243880.9989	30.967802	2864.5872	-0.023556	0.034
	130213.0777	-1.362627	-33.0045	-0.000032	-0.011
65°11'	1245739.0670	30.967872	2863.1738	-0.023572	0.033
	130131.3201	-1.362814	-33.0064	-0.000031	-0.011
65°12'	1247597.1393	30.967941	2861.7595	-0.023588	0.032
	130049.5513	-1.363000	-33.0083	-0.000030	-0.011
65°13'	1249455.2158	30.968010	2860.3442	-0.023604	0.031
	129967.7713	-1.363186	-33.0101	-0.000030	-0.011
65°14'	1251313.2964	30.968079	2858.9279	-0.023621	0.031
	129885.9801	-1.363372	-33.0119	-0.000029	-0.011
65°15'	1253171.3812	30.968149	2857.5107	-0.023637	0.030
	129804.1778	-1.363558	-33.0136	-0.000028	-0.011
65°16'	1255029.4701	30.968218	2856.0925	-0.023653	0.029
	129722.3643	-1.363744	-33.0153	-0.000028	-0.011
65°17'	1256887.5631	30.968287	2854.6733	-0.023669	0.028
	129640.5397	-1.363929	-33.0170	-0.000027	-0.011
65°18'	1258745.6603	30.968356	2853.2532	-0.023685	0.028
	129558.7040	-1.364115	-33.0186	-0.000026	-0.011
65°19'	1260603.7617	30.968425	2851.8320	-0.023701	0.027
	129476.8571	-1.364300	-33.0201	-0.000025	-0.011
65°20'	1262461.8672	30.968494	2850.4100	-0.023718	0.026
	129394.9991	-1.364485	-33.0217	-0.000025	-0.011
65°21'	1264319.9768	30.968563	2848.9869	-0.023734	0.025
	129313.1300	-1.364671	-33.0231	-0.000024	-0.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0012	0.0014

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
65°22'	1266178.0906	30.968632	2847.5629	-0.023750	0.025
	129231.2497	-1.364856	-33.0246	-0.000023	-0.010
65°23'	1268036.2085	30.968701	2846.1379	-0.023766	0.024
	129149.3584	-1.365041	-33.0260	-0.000023	-0.010
65°24'	1269894.3305	30.968770	2844.7119	-0.023782	0.023
	129067.4559	-1.365226	-33.0273	-0.000022	-0.010
65°25'	1271752.4567	30.968838	2843.2850	-0.023798	0.022
	128985.5424	-1.365410	-33.0286	-0.000021	-0.010
65°26'	1273610.5870	30.968907	2841.8571	-0.023814	0.022
	128903.6178	-1.365595	-33.0299	-0.000020	-0.010
65°27'	1275468.7214	30.968976	2840.4283	-0.023830	0.021
	128821.6821	-1.365779	-33.0311	-0.000020	-0.010
65°28'	1277326.8600	30.969045	2838.9985	-0.023846	0.020
	128739.7353	-1.365964	-33.0323	-0.000019	-0.010
65°29'	1279185.0027	30.969113	2837.5677	-0.023862	0.019
	128657.7775	-1.366148	-33.0335	-0.000018	-0.010
65°30'	1281043.1495	30.969182	2836.1359	-0.023878	0.019
	128575.8086	-1.366332	-33.0346	-0.000018	-0.010
65°31'	1282901.3004	30.969251	2834.7032	-0.023894	0.018
	128493.8287	-1.366516	-33.0356	-0.000017	-0.010
65°32'	1284759.4554	30.969319	2833.2696	-0.023911	0.017
	128411.8377	-1.366700	-33.0366	-0.000016	-0.010
65°33'	1286617.6146	30.969388	2831.8349	-0.023927	0.016
	128329.8357	-1.366884	-33.0376	-0.000016	-0.010
65°34'	1288475.7778	30.969456	2830.3993	-0.023943	0.016
	128247.8227	-1.367068	-33.0386	-0.000015	-0.010
65°35'	1290333.9452	30.969525	2828.9628	-0.023959	0.015
	128165.7986	-1.367251	-33.0394	-0.000014	-0.010
65°36'	1292192.1167	30.969593	2827.5253	-0.023975	0.014
	128083.7636	-1.367435	-33.0403	-0.000013	-0.010
65°37'	1294050.2923	30.969662	2826.0868	-0.023991	0.013
	128001.7175	-1.367618	-33.0411	-0.000013	-0.010
65°38'	1295908.4720	30.969730	2824.6474	-0.024007	0.013
	127919.6604	-1.367801	-33.0419	-0.000012	-0.010
65°39'	1297766.6557	30.969798	2823.2070	-0.024023	0.012
	127837.5923	-1.367984	-33.0426	-0.000011	-0.010
65°40'	1299624.8436	30.969867	2821.7656	-0.024039	0.011
	127755.5133	-1.368167	-33.0433	-0.000011	-0.010
65°41'	1301483.0356	30.969935	2820.3233	-0.024054	0.011
	127673.4233	-1.368350	-33.0439	-0.00001	-0.010
65°42'	1303341.2317	30.970003	2818.8800	-0.024070	0.01
	127591.3223	-1.368533	-33.0445	-0.000009	-0.010
65°43'	1305199.4319	30.970071	2817.4358	-0.024086	0.009
	127509.2103	-1.368715	-33.0450	-0.000008	-0.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IV)	0.0000	0.0008	0.0012	0.0014

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
65°44'	1307057.6362	30.970139	2815.9906	-0.024102	0.008
	127427.0874	-1.368898	-33.0455	-0.000008	-0.01
65°45'	1308915.8445	30.970208	2814.5445	-0.024118	0.008
	127344.9535	-1.369080	-33.0460	-0.000007	-0.01
65°46'	1310774.0570	30.970276	2813.0974	-0.024134	0.007
	127262.8087	-1.369263	-33.0464	-0.000006	-0.01
65°47'	1312632.2735	30.970344	2811.6494	-0.024150	0.006
	127180.6529	-1.369445	-33.0468	-0.000006	-0.01
65°48'	1314490.4942	30.970412	2810.2003	-0.024166	0.005
	127098.4862	-1.369627	-33.0472	-0.000005	-0.01
65°49'	1316348.7189	30.970480	2808.7504	-0.024182	0.005
	127016.3086	-1.369809	-33.0475	-0.000004	-0.01
65°50'	1318206.9477	30.970548	2807.2995	-0.024198	0.004
	126934.1201	-1.369991	-33.0477	-0.000004	-0.01
65°51'	1320065.1805	30.970616	2805.8476	-0.024214	0.003
	126851.9206	-1.370172	-33.0479	-0.000003	-0.01
65°52'	1321923.4175	30.970684	2804.3948	-0.024230	0.003
	126769.7103	-1.370354	-33.0481	-0.000002	-0.01
65°53'	1323781.6585	30.970751	2802.9410	-0.024245	0.002
	126687.4891	-1.370535	-33.0482	-0.000001	-0.01
65°54'	1325639.9035	30.970819	2801.4863	-0.024261	0.001
	126605.2570	-1.370717	-33.0483	-0.000001	-0.01
65°55'	1327498.1527	30.970887	2800.0306	-0.024277	0.000
	126523.0140	-1.370898	-33.0484	-0.000000	-0.01
65°56'	1329356.4059	30.970955	2798.5740	-0.024293	-0.000
	126440.7601	-1.371079	-33.0484	0.000001	-0.01
65°57'	1331214.6632	30.971022	2797.1164	-0.024309	-0.001
	126358.4953	-1.371260	-33.0483	0.000001	-0.01
65°58'	1333072.9245	30.971090	2795.6579	-0.024325	-0.002
	126276.2197	-1.371441	-33.0483	0.000002	-0.01
65°59'	1334931.1899	30.971158	2794.1984	-0.024340	-0.002
	126193.9333	-1.371622	-33.0481	0.000003	-0.01
66° 0'	1336789.4594	30.971225	2792.7380	-0.024356	-0.003
	126111.6360	-1.371802	-33.0480	0.000003	-0.01
66° 1'	1338647.7329	30.971293	2791.2766	-0.024372	-0.004
	126029.3278	-1.371983	-33.0478	0.000004	-0.01
66° 2'	1340506.0105	30.971360	2789.8143	-0.024388	-0.005
	125947.0089	-1.372163	-33.0475	0.000005	-0.01
66° 3'	1342364.2921	30.971428	2788.3510	-0.024404	-0.005
	125864.6791	-1.372344	-33.0472	0.000006	-0.01
66° 4'	1344222.5778	30.971495	2786.8868	-0.024419	-0.006
	125782.3385	-1.372524	-33.0469	0.000006	-0.01
66° 5'	1346080.8675	30.971563	2785.4217	-0.024435	-0.007
	125699.9870	-1.372704	-33.0465	0.000007	-0.01

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0012	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
66° 6'	1347939.1613	30.971630	2783.9555	-0.024451	-0.007
	125617.6248	-1.372884	-33.0461	0.000008	-0.01
66° 7'	1349797.4591	30.971698	2782.4885	-0.024467	-0.008
	125535.2518	-1.373064	-33.0456	0.000008	-0.009
66° 8'	1351655.7610	30.971765	2781.0205	-0.024482	-0.009
	125452.8680	-1.373243	-33.0452	0.000009	-0.009
66° 9'	1353514.0669	30.971832	2779.5516	-0.024498	-0.009
	125370.4734	-1.373423	-33.0446	0.00001	-0.009
66°10'	1355372.3768	30.971899	2778.0817	-0.024514	-0.010
	125288.0680	-1.373602	-33.0440	0.000010	-0.009
66°11'	1357230.6908	30.971967	2776.6108	-0.024530	-0.011
	125205.6519	-1.373782	-33.0434	0.000011	-0.009
66°12'	1359089.0088	30.972034	2775.1391	-0.024545	-0.012
	125123.2250	-1.373961	-33.0427	0.000012	-0.009
66°13'	1360947.3308	30.972101	2773.6664	-0.024561	-0.012
	125040.7873	-1.374140	-33.0420	0.000013	-0.009
66°14'	1362805.6569	30.972168	2772.1927	-0.024577	-0.013
	124958.3389	-1.374319	-33.0413	0.000013	-0.009
66°15'	1364663.9870	30.972235	2770.7181	-0.024592	-0.014
	124875.8797	-1.374498	-33.0405	0.000014	-0.009
66°16'	1366522.3211	30.972302	2769.2426	-0.024608	-0.014
	124793.4099	-1.374677	-33.0396	0.000015	-0.009
66°17'	1368380.6592	30.972369	2767.7661	-0.024624	-0.015
	124710.9293	-1.374855	-33.0388	0.000015	-0.009
66°18'	1370239.0014	30.972436	2766.2887	-0.024639	-0.016
	124628.4379	-1.375034	-33.0379	0.000016	-0.009
66°19'	1372097.3475	30.972503	2764.8103	-0.024655	-0.016
	124545.9359	-1.375212	-33.0369	0.000017	-0.009
66°20'	1373955.6977	30.972570	2763.3310	-0.024671	-0.017
	124463.4231	-1.375391	-33.0359	0.000017	-0.009
66°21'	1375814.0519	30.972637	2761.8508	-0.024686	-0.018
	124380.8997	-1.375569	-33.0349	0.000018	-0.009
66°22'	1377672.4102	30.972704	2760.3696	-0.024702	-0.018
	124298.3656	-1.375747	-33.0338	0.000019	-0.009
66°23'	1379530.7724	30.972771	2758.8875	-0.024717	-0.019
	124215.8208	-1.375925	-33.0326	0.000019	-0.009
66°24'	1381389.1386	30.972837	2757.4044	-0.024733	-0.020
	124133.2653	-1.376103	-33.0315	0.000020	-0.009
66°25'	1383247.5089	30.972904	2755.9204	-0.024749	-0.021
	124050.6991	-1.376280	-33.0303	0.000021	-0.009
66°26'	1385105.8831	30.972971	2754.4355	-0.024764	-0.021
	123968.1223	-1.376458	-33.0290	0.000022	-0.009
66°27'	1386964.2613	30.973037	2752.9497	-0.024780	-0.022
	123885.5348	-1.376636	-33.0277	0.000022	-0.009

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0012	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
66°28'	1388822.6436	30.973104	2751.4629	-0.024795	-0.023
	123802.9366	-1.376813	-33.0264	0.000023	-0.009
66°29'	1390681.0298	30.973171	2749.9751	-0.024811	-0.023
	123720.3279	-1.376990	-33.0250	0.000024	-0.009
66°30'	1392539.4201	30.973237	2748.4865	-0.024827	-0.024
	123637.7085	-1.377167	-33.0236	0.000024	-0.009
66°31'	1394397.8143	30.973304	2746.9969	-0.024842	-0.025
	123555.0784	-1.377344	-33.0221	0.000025	-0.009
66°32'	1396256.2125	30.973370	2745.5064	-0.024858	-0.025
	123472.4378	-1.377521	-33.0206	0.000026	-0.009
66°33'	1398114.6147	30.973437	2744.0149	-0.024873	-0.026
	123389.7865	-1.377698	-33.0191	0.000026	-0.009
66°34'	1399973.0209	30.973503	2742.5225	-0.024889	-0.027
	123307.1246	-1.377875	-33.0175	0.000027	-0.009
66°35'	1401831.4311	30.973569	2741.0292	-0.024904	-0.027
	123224.4521	-1.378051	-33.0159	0.000028	-0.009
66°36'	1403689.8452	30.973636	2739.5349	-0.024920	-0.028
	123141.7690	-1.378228	-33.0142	0.000028	-0.009
66°37'	1405548.2634	30.973702	2738.0397	-0.024935	-0.029
	123059.0754	-1.378404	-33.0125	0.000029	-0.009
66°38'	1407406.6855	30.973768	2736.5436	-0.024951	-0.029
	122976.3712	-1.378580	-33.0107	0.000030	-0.009
66°39'	1409265.1116	30.973834	2735.0466	-0.024966	-0.030
	122893.6563	-1.378756	-33.0090	0.000031	-0.009
66°40'	1411123.5416	30.973901	2733.5486	-0.024982	-0.031
	122810.9310	-1.378932	-33.0071	0.000031	-0.009
66°41'	1412981.9756	30.973967	2732.0497	-0.024997	-0.031
	122728.1950	-1.379108	-33.0052	0.000032	-0.009
66°42'	1414840.4137	30.974033	2730.5499	-0.025013	-0.032
	122645.4486	-1.379284	-33.0033	0.000033	-0.009
66°43'	1416698.8556	30.974099	2729.0491	-0.025028	-0.033
	122562.6915	-1.379459	-33.0014	0.000033	-0.009
66°44'	1418557.3016	30.974165	2727.5474	-0.025043	-0.033
	122479.9240	-1.379635	-32.9994	0.000034	-0.009
66°45'	1420415.7514	30.974231	2726.0448	-0.025059	-0.034
	122397.1459	-1.379810	-32.9973	0.000035	-0.009
66°46'	1422274.2053	30.974297	2724.5413	-0.025074	-0.035
	122314.3573	-1.379985	-32.9952	0.000035	-0.009
66°47'	1424132.6631	30.974363	2723.0368	-0.025090	-0.035
	122231.5581	-1.380161	-32.9931	0.000036	-0.009
66°48'	1425991.1249	30.974429	2721.5314	-0.025105	-0.036
	122148.7485	-1.380336	-32.9910	0.000037	-0.009
66°49'	1427849.5906	30.974495	2720.0251	-0.025121	-0.037
	122065.9284	-1.380511	-32.9887	0.000037	-0.009

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0012	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
66°50'	1429708.0603	30.974560	2718.5179	-0.025136	-0.037
	121983.0977	-1.380685	-32.9865	0.000038	-0.009
66°51'	1431566.5339	30.974626	2717.0097	-0.025151	-0.038
	121900.2566	-1.380860	-32.9842	0.000039	-0.009
66°52'	1433425.0115	30.974692	2715.5007	-0.025167	-0.039
	121817.4050	-1.381035	-32.9819	0.000040	-0.009
66°53'	1435283.4930	30.974758	2713.9907	-0.025182	-0.039
	121734.5429	-1.381209	-32.9795	0.000040	-0.009
66°54'	1437141.9784	30.974823	2712.4797	-0.025197	-0.040
	121651.6704	-1.381383	-32.9771	0.000041	-0.008
66°55'	1439000.4678	30.974889	2710.9679	-0.025213	-0.040
	121568.7874	-1.381557	-32.9746	0.000042	-0.008
66°56'	1440858.9612	30.974955	2709.4551	-0.025228	-0.041
	121485.8939	-1.381732	-32.9721	0.000042	-0.008
66°57'	1442717.4584	30.975020	2707.9414	-0.025243	-0.042
	121402.9901	-1.381906	-32.9696	0.000043	-0.008
66°58'	1444575.9596	30.975086	2706.4268	-0.025259	-0.042
	121320.0757	-1.382079	-32.9670	0.000044	-0.008
66°59'	1446434.4648	30.975151	2704.9113	-0.025274	-0.043
	121237.1510	-1.382253	-32.9644	0.000044	-0.008
67° 0'	1448292.9738	30.975217	2703.3949	-0.025289	-0.044
	121154.2158	-1.382427	-32.9617	0.000045	-0.008
67° 1'	1450151.4868	30.975282	2701.8775	-0.025305	-0.044
	121071.2702	-1.382600	-32.9590	0.000046	-0.008
67° 2'	1452010.0038	30.975347	2700.3592	-0.025320	-0.045
	120988.3142	-1.382774	-32.9563	0.000046	-0.008
67° 3'	1453868.5246	30.975413	2698.8400	-0.025335	-0.046
	120905.3478	-1.382947	-32.9535	0.000047	-0.008
67° 4'	1455727.0494	30.975478	2697.3199	-0.025351	-0.046
	120822.3709	-1.383120	-32.9507	0.000048	-0.008
67° 5'	1457585.5780	30.975543	2695.7989	-0.025366	-0.047
	120739.3838	-1.383293	-32.9478	0.000048	-0.008
67° 6'	1459444.1106	30.975609	2694.2769	-0.025381	-0.048
	120656.3862	-1.383466	-32.9449	0.000049	-0.008
67° 7'	1461302.6472	30.975674	2692.7541	-0.025396	-0.048
	120573.3782	-1.383639	-32.9419	0.000050	-0.008
67° 8'	1463161.1876	30.975739	2691.2303	-0.025411	-0.049
	120490.3599	-1.383811	-32.9390	0.000051	-0.008
67° 9'	1465019.7319	30.975804	2689.7056	-0.025427	-0.049
	120407.3312	-1.383984	-32.9359	0.000051	-0.008
67°10'	1466878.2802	30.975869	2688.1800	-0.025442	-0.050
	120324.2922	-1.384156	-32.9328	0.000052	-0.008
67°11'	1468736.8323	30.975934	2686.6535	-0.025457	-0.051
	120241.2428	-1.384329	-32.9297	0.000053	-0.008

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
67°12'	1470595.3883	30.975999	2685.1261	-0.025472	-0.051
	120158.1831	-1.384501	-32.9266	0.000053	-0.008
67°13'	1472453.9483	30.976064	2683.5977	-0.025488	-0.052
	120075.1131	-1.384673	-32.9234	0.000054	-0.008
67°14'	1474312.5121	30.976129	2682.0685	-0.025503	-0.053
	119992.0327	-1.384845	-32.9201	0.000055	-0.008
67°15'	1476171.0799	30.976194	2680.5383	-0.025518	-0.053
	119908.9420	-1.385017	-32.9169	0.000055	-0.008
67°16'	1478029.6515	30.976259	2679.0072	-0.025533	-0.054
	119825.8410	-1.385188	-32.9135	0.000056	-0.008
67°17'	1479888.2271	30.976324	2677.4752	-0.025548	-0.054
	119742.7297	-1.385360	-32.9102	0.000057	-0.008
67°18'	1481746.8065	30.976388	2675.9424	-0.025563	-0.055
	119659.6081	-1.385531	-32.9068	0.000057	-0.008
67°19'	1483605.3898	30.976453	2674.4086	-0.025579	-0.056
	119576.4762	-1.385703	-32.9033	0.000058	-0.008
67°20'	1485463.9770	30.976518	2672.8738	-0.025594	-0.056
	119493.3341	-1.385874	-32.8999	0.000059	-0.008
67°21'	1487322.5681	30.976583	2671.3382	-0.025609	-0.057
	119410.1816	-1.386045	-32.8963	0.000059	-0.008
67°22'	1489181.1630	30.976647	2669.8017	-0.025624	-0.058
	119327.0189	-1.386216	-32.8928	0.000060	-0.008
67°23'	1491039.7619	30.976712	2668.2643	-0.025639	-0.058
	119243.8460	-1.386387	-32.8892	0.000061	-0.008
67°24'	1492898.3646	30.976776	2666.7259	-0.025654	-0.059
	119160.6627	-1.386558	-32.8855	0.000061	-0.008
67°25'	1494756.9712	30.976841	2665.1867	-0.025669	-0.059
	119077.4693	-1.386728	-32.8818	0.000062	-0.008
67°26'	1496615.5816	30.976906	2663.6465	-0.025684	-0.060
	118994.2656	-1.386899	-32.8781	0.000063	-0.008
67°27'	1498474.1960	30.976970	2662.1055	-0.025699	-0.061
	118911.0516	-1.387069	-32.8743	0.000064	-0.008
67°28'	1500332.8142	30.977034	2660.5635	-0.025714	-0.061
	118827.8275	-1.387240	-32.8705	0.000064	-0.008
67°29'	1502191.4362	30.977099	2659.0207	-0.025729	-0.062
	118744.5931	-1.387410	-32.8666	0.000065	-0.008
67°30'	1504050.0621	30.977163	2657.4769	-0.025744	-0.062
	118661.3485	-1.387580	-32.8628	0.000066	-0.008
67°31'	1505908.6919	30.977227	2655.9322	-0.025760	-0.063
	118578.0937	-1.387750	-32.8588	0.000066	-0.008
67°32'	1507767.3256	30.977292	2654.3867	-0.025775	-0.064
	118494.8287	-1.387920	-32.8548	0.000067	-0.008
67°33'	1509625.9631	30.977356	2652.8402	-0.025790	-0.064
	118411.5535	-1.388089	-32.8508	0.000068	-0.008

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
67°34'	1511484.6044	30.977420	2651.2928	-0.025805	-0.065
	118328.2682	-1.388259	-32.8468	0.000068	-0.008
67°35'	1513343.2497	30.977484	2649.7445	-0.025820	-0.065
	118244.9726	-1.388428	-32.8427	0.000069	-0.008
67°36'	1515201.8987	30.977548	2648.1954	-0.025835	-0.066
	118161.6669	-1.388598	-32.8385	0.000070	-0.008
67°37'	1517060.5516	30.977613	2646.6453	-0.025850	-0.067
	118078.3510	-1.388767	-32.8344	0.000070	-0.008
67°38'	1518919.2084	30.977677	2645.0943	-0.025865	-0.067
	117995.0250	-1.388936	-32.8301	0.000071	-0.008
67°39'	1520777.8690	30.977741	2643.5424	-0.025879	-0.068
	117911.6888	-1.389105	-32.8259	0.000072	-0.008
67°40'	1522636.5334	30.977805	2641.9897	-0.025894	-0.068
	117828.3425	-1.389274	-32.8216	0.000072	-0.008
67°41'	1524495.2017	30.977869	2640.4360	-0.025909	-0.069
	117744.9861	-1.389443	-32.8172	0.000073	-0.008
67°42'	1526353.8738	30.977932	2638.8814	-0.025924	-0.070
	117661.6195	-1.389611	-32.8128	0.000074	-0.008
67°43'	1528212.5497	30.977996	2637.3260	-0.025939	-0.070
	117578.2428	-1.389780	-32.8084	0.000074	-0.008
67°44'	1530071.2295	30.978060	2635.7696	-0.025954	-0.071
	117494.8560	-1.389948	-32.8040	0.000075	-0.007
67°45'	1531929.9131	30.978124	2634.2124	-0.025969	-0.071
	117411.4591	-1.390117	-32.7995	0.000076	-0.007
67°46'	1533788.6005	30.978188	2632.6542	-0.025984	-0.072
	117328.0521	-1.390285	-32.7949	0.000076	-0.007
67°47'	1535647.2918	30.978251	2631.0952	-0.025999	-0.073
	117244.6350	-1.390453	-32.7903	0.000077	-0.007
67°48'	1537505.9869	30.978315	2629.5353	-0.026014	-0.073
	117161.2079	-1.390621	-32.7857	0.000078	-0.007
67°49'	1539364.6858	30.978379	2627.9744	-0.026029	-0.074
	117077.7706	-1.390789	-32.7810	0.000078	-0.007
67°50'	1541223.3885	30.978442	2626.4127	-0.026044	-0.074
	116994.3233	-1.390956	-32.7763	0.000079	-0.007
67°51'	1543082.0950	30.978506	2624.8501	-0.026058	-0.075
	116910.8659	-1.391124	-32.7716	0.000080	-0.007
67°52'	1544940.8054	30.978569	2623.2866	-0.026073	-0.076
	116827.3985	-1.391291	-32.7668	0.000080	-0.007
67°53'	1546799.5196	30.978633	2621.7222	-0.026088	-0.076
	116743.9210	-1.391459	-32.7620	0.000081	-0.007
67°54'	1548658.2375	30.978696	2620.1569	-0.026103	-0.077
	116660.4335	-1.391626	-32.7571	0.000082	-0.007
67°55'	1550516.9593	30.978760	2618.5907	-0.026118	-0.077
	116576.9360	-1.391793	-32.7522	0.000083	-0.007

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0013

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
67°56'	1552375.6849	30.978823	2617.0237	-0.026133	-0.078
	116493.4284	-1.391960	-32.7472	0.000083	-0.007
67°57'	1554234.4143	30.978886	2615.4557	-0.026147	-0.078
	116409.9108	-1.392127	-32.7422	0.000084	-0.007
67°58'	1556093.1474	30.978950	2613.8869	-0.026162	-0.079
	116326.3832	-1.392294	-32.7372	0.000085	-0.007
67°59'	1557951.8844	30.979013	2612.3172	-0.026177	-0.080
	116242.8456	-1.392460	-32.7321	0.000085	-0.007
68° 0'	1559810.6252	30.979076	2610.7465	-0.026192	-0.080
	116159.2980	-1.392627	-32.7270	0.000086	-0.007
68° 1'	1561669.3698	30.979139	2609.1750	-0.026207	-0.081
	116075.7404	-1.392793	-32.7219	0.000087	-0.007
68° 2'	1563528.1181	30.979203	2607.6026	-0.026221	-0.081
	115992.1728	-1.392959	-32.7167	0.000087	-0.007
68° 3'	1565386.8703	30.979266	2606.0294	-0.026236	-0.082
	115908.5952	-1.393125	-32.7114	0.000088	-0.007
68° 4'	1567245.6262	30.979329	2604.4552	-0.026251	-0.082
	115825.0077	-1.393291	-32.7062	0.000089	-0.007
68° 5'	1569104.3860	30.979392	2602.8802	-0.026266	-0.083
	115741.4102	-1.393457	-32.7008	0.000089	-0.007
68° 6'	1570963.1495	30.979455	2601.3042	-0.026280	-0.084
	115657.8028	-1.393623	-32.6955	0.000090	-0.007
68° 7'	1572821.9167	30.979518	2599.7274	-0.026295	-0.084
	115574.1854	-1.393789	-32.6901	0.000091	-0.007
68° 8'	1574680.6878	30.979581	2598.1497	-0.026310	-0.085
	115490.5580	-1.393954	-32.6847	0.000091	-0.007
68° 9'	1576539.4626	30.979643	2596.5711	-0.026324	-0.085
	115406.9208	-1.394120	-32.6792	0.000092	-0.007
68°10'	1578398.2413	30.979706	2594.9917	-0.026339	-0.086
	115323.2736	-1.394285	-32.6737	0.000093	-0.007
68°11'	1580257.0236	30.979769	2593.4113	-0.026354	-0.086
	115239.6165	-1.394450	-32.6681	0.000093	-0.007
68°12'	1582115.8098	30.979832	2591.8301	-0.026368	-0.087
	115155.9495	-1.394615	-32.6625	0.000094	-0.007
68°13'	1583974.5997	30.979895	2590.2480	-0.026383	-0.088
	115072.2725	-1.394780	-32.6569	0.000095	-0.007
68°14'	1585833.3934	30.979957	2588.6650	-0.026398	-0.088
	114988.5857	-1.394945	-32.6512	0.000095	-0.007
68°15'	1587692.1908	30.980020	2587.0812	-0.026412	-0.089
	114904.8890	-1.395110	-32.6455	0.000096	-0.007
68°16'	1589550.9920	30.980083	2585.4964	-0.026427	-0.089
	114821.1824	-1.395275	-32.6397	0.000097	-0.007
68°17'	1591409.7970	30.980145	2583.9108	-0.026442	-0.090
	114737.4659	-1.395439	-32.6339	0.000097	-0.007

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0012

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
68°18'	1593268.6057	30.980208	2582.3243	-0.026456	-0.090
	114653.7396	-1.395603	-32.6281	0.000098	-0.007
68°19'	1595127.4181	30.980270	2580.7369	-0.026471	-0.091
	114570.0034	-1.395768	-32.6222	0.000099	-0.007
68°20'	1596986.2344	30.980333	2579.1487	-0.026485	-0.091
	114486.2573	-1.395932	-32.6163	0.000099	-0.007
68°21'	1598845.0543	30.980395	2577.5595	-0.026500	-0.092
	114402.5014	-1.396096	-32.6103	0.00010	-0.007
68°22'	1600703.8780	30.980457	2575.9695	-0.026515	-0.093
	114318.7357	-1.396260	-32.6043	0.000101	-0.007
68°23'	1602562.7055	30.980520	2574.3786	-0.026529	-0.093
	114234.9601	-1.396423	-32.5983	0.000101	-0.007
68°24'	1604421.5367	30.980582	2572.7869	-0.026544	-0.094
	114151.1747	-1.396587	-32.5922	0.000102	-0.007
68°25'	1606280.3716	30.980644	2571.1943	-0.026558	-0.094
	114067.3795	-1.396751	-32.5861	0.000103	-0.007
68°26'	1608139.2102	30.980707	2569.6008	-0.026573	-0.095
	113983.5745	-1.396914	-32.5799	0.000103	-0.007
68°27'	1609998.0526	30.980769	2568.0064	-0.026587	-0.095
	113899.7596	-1.397077	-32.5737	0.000104	-0.007
68°28'	1611856.8988	30.980831	2566.4111	-0.026602	-0.096
	113815.9350	-1.397240	-32.5675	0.000105	-0.007
68°29'	1613715.7486	30.980893	2564.8150	-0.026617	-0.096
	113732.1006	-1.397403	-32.5612	0.000105	-0.007
68°30'	1615574.6022	30.980955	2563.2180	-0.026631	-0.097
	113648.2563	-1.397566	-32.5549	0.000106	-0.007
68°31'	1617433.4595	30.981017	2561.6202	-0.026646	-0.097
	113564.4024	-1.397729	-32.5486	0.000107	-0.007
68°32'	1619292.3206	30.981079	2560.0214	-0.026660	-0.098
	113480.5386	-1.397892	-32.5422	0.000107	-0.007
68°33'	1621151.1853	30.981141	2558.4218	-0.026674	-0.098
	113396.6651	-1.398054	-32.5357	0.000108	-0.007
68°34'	1623010.0538	30.981203	2556.8214	-0.026689	-0.099
	113312.7818	-1.398217	-32.5292	0.000109	-0.007
68°35'	1624868.9260	30.981265	2555.2200	-0.026703	-0.10
	113228.8888	-1.398379	-32.5227	0.000109	-0.006
68°36'	1626727.8019	30.981327	2553.6178	-0.026718	-0.100
	113144.9861	-1.398541	-32.5162	0.000110	-0.006
68°37'	1628586.6815	30.981389	2552.0148	-0.026732	-0.101
	113061.0736	-1.398704	-32.5096	0.000111	-0.006
68°38'	1630445.5648	30.981450	2550.4108	-0.026747	-0.101
	112977.1514	-1.398866	-32.5029	0.000111	-0.006
68°39'	1632304.4518	30.981512	2548.8060	-0.026761	-0.102
	112893.2194	-1.399027	-32.4962	0.000112	-0.006

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0012

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
68°40'	1634163.3425	30.981574	2547.2003	-0.026776	-0.102
	112809.2778	-1.399189	-32.4895	0.000113	-0.006
68°41'	1636022.2370	30.981635	2545.5938	-0.026790	-0.103
	112725.3264	-1.399351	-32.4828	0.000113	-0.006
68°42'	1637881.1351	30.981697	2543.9864	-0.026804	-0.103
	112641.3654	-1.399512	-32.4760	0.000114	-0.006
68°43'	1639740.0369	30.981759	2542.3781	-0.026819	-0.104
	112557.3947	-1.399674	-32.4691	0.000115	-0.006
68°44'	1641598.9424	30.981820	2540.7690	-0.026833	-0.104
	112473.4142	-1.399835	-32.4623	0.000115	-0.006
68°45'	1643457.8516	30.981882	2539.1590	-0.026848	-0.105
	112389.4242	-1.399996	-32.4554	0.000116	-0.006
68°46'	1645316.7646	30.981943	2537.5481	-0.026862	-0.105
	112305.4244	-1.400157	-32.4484	0.000117	-0.006
68°47'	1647175.6811	30.982005	2535.9364	-0.026876	-0.106
	112221.4150	-1.400318	-32.4414	0.000117	-0.006
68°48'	1649034.6014	30.982066	2534.3238	-0.026891	-0.106
	112137.3959	-1.400479	-32.4344	0.000118	-0.006
68°49'	1650893.5254	30.982127	2532.7104	-0.026905	-0.107
	112053.3672	-1.400639	-32.4273	0.000119	-0.006
68°50'	1652752.4530	30.982189	2531.0961	-0.026919	-0.107
	111969.3288	-1.400800	-32.4202	0.000119	-0.006
68°51'	1654611.3843	30.982250	2529.4809	-0.026934	-0.108
	111885.2808	-1.400960	-32.4130	0.000120	-0.006
68°52'	1656470.3193	30.982311	2527.8649	-0.026948	-0.108
	111801.2232	-1.401121	-32.4058	0.000121	-0.006
68°53'	1658329.2580	30.982372	2526.2480	-0.026962	-0.109
	111717.1560	-1.401281	-32.3986	0.000121	-0.006
68°54'	1660188.2003	30.982433	2524.6303	-0.026977	-0.109
	111633.0791	-1.401441	-32.3913	0.000122	-0.006
68°55'	1662047.1463	30.982495	2523.0117	-0.026991	-0.110
	111548.9927	-1.401601	-32.3840	0.000123	-0.006
68°56'	1663906.0960	30.982556	2521.3922	-0.027005	-0.110
	111464.8966	-1.401761	-32.3767	0.000123	-0.006
68°57'	1665765.0493	30.982617	2519.7719	-0.027019	-0.111
	111380.7910	-1.401920	-32.3693	0.000124	-0.006
68°58'	1667624.0063	30.982678	2518.1508	-0.027034	-0.112
	111296.6758	-1.402080	-32.3618	0.000125	-0.006
68°59'	1669482.9670	30.982739	2516.5288	-0.027048	-0.112
	111212.5510	-1.402239	-32.3544	0.000125	-0.006
69° 0'	1671341.9313	30.982799	2514.9059	-0.027062	-0.113
	111128.4166	-1.402399	-32.3469	0.000126	-0.006
69° 1'	1673200.8993	30.982860	2513.2821	-0.027076	-0.113
	111044.2727	-1.402558	-32.3393	0.000126	-0.006

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IV)	0.0000	0.0007	0.0011	0.0012

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
69° 2'	1675059.8709	30.982921	2511.6576	-0.027091	-0.114
	110960.1192	-1.402717	-32.3317	0.000127	-0.006
69° 3'	1676918.8461	30.982982	2510.0321	-0.027105	-0.114
	110875.9562	-1.402876	-32.3241	0.000128	-0.006
69° 4'	1678777.8251	30.983043	2508.4058	-0.027119	-0.115
	110791.7836	-1.403035	-32.3164	0.000128	-0.006
69° 5'	1680636.8076	30.983103	2506.7787	-0.027133	-0.115
	110707.6015	-1.403194	-32.3087	0.000129	-0.006
69° 6'	1682495.7938	30.983164	2505.1507	-0.027147	-0.116
	110623.4099	-1.403352	-32.3010	0.000130	-0.006
69° 7'	1684354.7837	30.983225	2503.5218	-0.027162	-0.116
	110539.2088	-1.403511	-32.2932	0.000130	-0.006
69° 8'	1686213.7772	30.983285	2501.8922	-0.027176	-0.117
	110454.9981	-1.403669	-32.2854	0.000131	-0.006
69° 9'	1688072.7743	30.983346	2500.2616	-0.027190	-0.117
	110370.7780	-1.403827	-32.2775	0.000132	-0.006
69°10'	1689931.7750	30.983406	2498.6302	-0.027204	-0.118
	110286.5484	-1.403986	-32.2696	0.000132	-0.006
69°11'	1691790.7794	30.983467	2496.9980	-0.027218	-0.118
	110202.3092	-1.404144	-32.2617	0.000133	-0.006
69°12'	1693649.7874	30.983527	2495.3649	-0.027232	-0.118
	110118.0606	-1.404301	-32.2537	0.000134	-0.006
69°13'	1695508.7991	30.983588	2493.7309	-0.027246	-0.119
	110033.8025	-1.404459	-32.2456	0.000134	-0.006
69°14'	1697367.8143	30.983648	2492.0961	-0.027261	-0.119
	109949.5350	-1.404617	-32.2376	0.000135	-0.006
69°15'	1699226.8332	30.983708	2490.4605	-0.027275	-0.120
	109865.2580	-1.404774	-32.2295	0.000136	-0.006
69°16'	1701085.8557	30.983769	2488.8240	-0.027289	-0.120
	109780.9715	-1.404932	-32.2214	0.000136	-0.006
69°17'	1702944.8818	30.983829	2487.1867	-0.027303	-0.121
	109696.6756	-1.405089	-32.2132	0.000137	-0.006
69°18'	1704803.9116	30.983889	2485.5485	-0.027317	-0.121
	109612.3702	-1.405246	-32.2050	0.000138	-0.006
69°19'	1706662.9449	30.983949	2483.9095	-0.027331	-0.122
	109528.0554	-1.405403	-32.1967	0.000138	-0.006
69°20'	1708521.9819	30.984009	2482.2697	-0.027345	-0.122
	109443.7312	-1.405560	-32.1884	0.000139	-0.006
69°21'	1710381.0225	30.984070	2480.6290	-0.027359	-0.123
	109359.3976	-1.405717	-32.1801	0.000140	-0.006
69°22'	1712240.0666	30.984130	2478.9874	-0.027373	-0.123
	109275.0546	-1.405874	-32.1717	0.000140	-0.006
69°23'	1714099.1144	30.984190	2477.3450	-0.027387	-0.124
	109190.7022	-1.406030	-32.1633	0.000141	-0.006

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0007	0.0010	0.0012

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
69°24'	1715958.1658	30.984250	2475.7018	-0.027401	-0.124
	109106.3403	-1.406187	-32.1548	0.000142	-0.006
69°25'	1717817.2207	30.984309	2474.0577	-0.027415	-0.125
	109021.9691	-1.406343	-32.1463	0.000142	-0.006
69°26'	1719676.2793	30.984369	2472.4128	-0.027429	-0.125
	108937.5885	-1.406499	-32.1378	0.000143	-0.006
69°27'	1721535.3415	30.984429	2470.7671	-0.027443	-0.126
	108853.1985	-1.406656	-32.1292	0.000143	-0.006
69°28'	1723394.4072	30.984489	2469.1205	-0.027457	-0.126
	108768.7992	-1.406812	-32.1206	0.000144	-0.006
69°29'	1725253.4766	30.984549	2467.4730	-0.027471	-0.127
	108684.3905	-1.406967	-32.1120	0.000145	-0.006
69°30'	1727112.5495	30.984608	2465.8248	-0.027485	-0.127
	108599.9725	-1.407123	-32.1033	0.000145	-0.005
69°31'	1728971.6260	30.984668	2464.1757	-0.027499	-0.128
	108515.5451	-1.407279	-32.0946	0.000146	-0.005
69°32'	1730830.7061	30.984728	2462.5257	-0.027513	-0.128
	108431.1084	-1.407434	-32.0858	0.000147	-0.005
69°33'	1732689.7898	30.984787	2460.8749	-0.027527	-0.129
	108346.6623	-1.407590	-32.0770	0.000147	-0.005
69°34'	1734548.8770	30.984847	2459.2233	-0.027541	-0.129
	108262.2069	-1.407745	-32.0682	0.000148	-0.005
69°35'	1736407.9678	30.984907	2457.5709	-0.027555	-0.129
	108177.7422	-1.407900	-32.0593	0.000149	-0.005
69°36'	1738267.0622	30.984966	2455.9176	-0.027569	-0.130
	108093.2682	-1.408055	-32.0504	0.000149	-0.005
69°37'	1740126.1602	30.985025	2454.2635	-0.027583	-0.130
	108008.7849	-1.408210	-32.0414	0.000150	-0.005
69°38'	1741985.2617	30.985085	2452.6085	-0.027596	-0.131
	107924.2923	-1.408365	-32.0324	0.000151	-0.005
69°39'	1743844.3668	30.985144	2450.9527	-0.027610	-0.131
	107839.7904	-1.408519	-32.0234	0.000151	-0.005
69°40'	1745703.4755	30.985204	2449.2961	-0.027624	-0.132
	107755.2793	-1.408674	-32.0143	0.000152	-0.005
69°41'	1747562.5877	30.985263	2447.6387	-0.027638	-0.132
	107670.7588	-1.408828	-32.0052	0.000153	-0.005
69°42'	1749421.7034	30.985322	2445.9804	-0.027652	-0.133
	107586.2291	-1.408983	-31.9960	0.000153	-0.005
69°43'	1751280.8228	30.985381	2444.3213	-0.027666	-0.133
	107501.6902	-1.409137	-31.9869	0.000154	-0.005
69°44'	1753139.9457	30.985440	2442.6613	-0.027680	-0.134
	107417.1419	-1.409291	-31.9776	0.000154	-0.005
69°45'	1754999.0721	30.985500	2441.0005	-0.027693	-0.134
	107332.5845	-1.409445	-31.9684	0.000155	-0.005

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.0010	0.0012

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
69°46'	1756858.2021	30.985559	2439.3389	-0.027707	-0.134
	107248.0178	-1.409599	-31.9591	0.000156	-0.005
69°47'	1758717.3356	30.985618	2437.6765	-0.027721	-0.135
	107163.4419	-1.409752	-31.9497	0.000156	-0.005
69°48'	1760576.4727	30.985677	2436.0132	-0.027735	-0.135
	107078.8567	-1.409906	-31.9403	0.000157	-0.005
69°49'	1762435.6133	30.985736	2434.3492	-0.027749	-0.136
	106994.2624	-1.410059	-31.9309	0.000158	-0.005
69°50'	1764294.7574	30.985795	2432.6842	-0.027762	-0.136
	106909.6588	-1.410213	-31.9214	0.000158	-0.005
69°51'	1766153.9051	30.985854	2431.0185	-0.027776	-0.137
	106825.0461	-1.410366	-31.9119	0.000159	-0.005
69°52'	1768013.0563	30.985912	2429.3519	-0.027790	-0.137
	106740.4241	-1.410519	-31.9024	0.000160	-0.005
69°53'	1769872.2110	30.985971	2427.6845	-0.027804	-0.138
	106655.7930	-1.410672	-31.8928	0.000160	-0.005
69°54'	1771731.3693	30.986030	2426.0163	-0.027817	-0.138
	106571.1526	-1.410825	-31.8832	0.000161	-0.005
69°55'	1773590.5311	30.986089	2424.3473	-0.027831	-0.139
	106486.5032	-1.410978	-31.8736	0.000162	-0.005
69°56'	1775449.6964	30.986147	2422.6774	-0.027845	-0.139
	106401.8445	-1.411130	-31.8639	0.000162	-0.005
69°57'	1777308.8653	30.986206	2421.0067	-0.027859	-0.139
	106317.1767	-1.411283	-31.8541	0.000163	-0.005
69°58'	1779168.0376	30.986265	2419.3352	-0.027872	-0.140
	106232.4997	-1.411435	-31.8444	0.000163	-0.005
69°59'	1781027.2135	30.986323	2417.6629	-0.027886	-0.140
	106147.8136	-1.411587	-31.8346	0.000164	-0.005
70° 0'	1782886.3929	30.986382	2415.9897	-0.027900	-0.141
	106063.1184	-1.411739	-31.8247	0.000165	-0.005
70° 1'	1784745.5758	30.986440	2414.3157	-0.027913	-0.141
	105978.4140	-1.411891	-31.8148	0.000165	-0.005
70° 2'	1786604.7622	30.986499	2412.6409	-0.027927	-0.142
	105893.7005	-1.412043	-31.8049	0.000166	-0.005
70° 3'	1788463.9521	30.986557	2410.9653	-0.027941	-0.142
	105808.9779	-1.412195	-31.7950	0.000167	-0.005
70° 4'	1790323.1456	30.986615	2409.2889	-0.027954	-0.142
	105724.2462	-1.412347	-31.7850	0.000167	-0.005
70° 5'	1792182.3425	30.986674	2407.6116	-0.027968	-0.143
	105639.5054	-1.412498	-31.7749	0.000168	-0.005
70° 6'	1794041.5429	30.986732	2405.9335	-0.027982	-0.143
	105554.7556	-1.412650	-31.7648	0.000169	-0.005
70° 7'	1795900.7468	30.986790	2404.2547	-0.027995	-0.144
	105469.9966	-1.412801	-31.7547	0.000169	-0.005

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.0010	0.0011

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
70° 8'	1797759.9543	30.986848	2402.5749	-0.028009	-0.144
	105385.2285	-1.412952	-31.7446	0.000170	-0.005
70° 9'	1799619.1652	30.986907	2400.8944	-0.028022	-0.145
	105300.4514	-1.413103	-31.7344	0.000170	-0.005
70°10'	1801478.3796	30.986965	2399.2131	-0.028036	-0.145
	105215.6652	-1.413254	-31.7242	0.000171	-0.005
70°11'	1803337.5974	30.987023	2397.5309	-0.028049	-0.145
	105130.8700	-1.413405	-31.7139	0.000172	-0.005
70°12'	1805196.8188	30.987081	2395.8480	-0.028063	-0.146
	105046.0657	-1.413555	-31.7036	0.000172	-0.005
70°13'	1807056.0437	30.987139	2394.1642	-0.028077	-0.146
	104961.2524	-1.413706	-31.6932	0.000173	-0.005
70°14'	1808915.2720	30.987197	2392.4796	-0.028090	-0.147
	104876.4300	-1.413856	-31.6829	0.000174	-0.005
70°15'	1810774.5038	30.987255	2390.7942	-0.028104	-0.147
	104791.5986	-1.414007	-31.6724	0.000174	-0.005
70°16'	1812633.7391	30.987313	2389.1079	-0.028117	-0.147
	104706.7582	-1.414157	-31.6620	0.000175	-0.005
70°17'	1814492.9779	30.987370	2387.4209	-0.028131	-0.148
	104621.9088	-1.414307	-31.6515	0.000176	-0.005
70°18'	1816352.2201	30.987428	2385.7331	-0.028144	-0.148
	104537.0504	-1.414457	-31.6410	0.000176	-0.005
70°19'	1818211.4658	30.987486	2384.0444	-0.028158	-0.149
	104452.1829	-1.414607	-31.6304	0.000177	-0.005
70°20'	1820070.7149	30.987544	2382.3549	-0.028171	-0.149
	104367.3065	-1.414757	-31.6198	0.000177	-0.005
70°21'	1821929.9676	30.987601	2380.6647	-0.028185	-0.150
	104282.4211	-1.414906	-31.6091	0.000178	-0.005
70°22'	1823789.2236	30.987659	2378.9736	-0.028198	-0.150
	104197.5268	-1.415056	-31.5984	0.000179	-0.005
70°23'	1825648.4832	30.987717	2377.2817	-0.028212	-0.150
	104112.6234	-1.415205	-31.5877	0.000179	-0.005
70°24'	1827507.7462	30.987774	2375.5890	-0.028225	-0.151
	104027.7111	-1.415354	-31.5770	0.000180	-0.005
70°25'	1829367.0126	30.987832	2373.8955	-0.028239	-0.151
	103942.7899	-1.415503	-31.5662	0.000181	-0.005
70°26'	1831226.2825	30.987889	2372.2012	-0.028252	-0.152
	103857.8597	-1.415652	-31.5553	0.000181	-0.005
70°27'	1833085.5559	30.987947	2370.5060	-0.028265	-0.152
	103772.9206	-1.415801	-31.5444	0.000182	-0.005
70°28'	1834944.8327	30.988004	2368.8101	-0.028279	-0.152
	103687.9725	-1.415950	-31.5335	0.000183	-0.004
70°29'	1836804.1129	30.988061	2367.1134	-0.028292	-0.153
	103603.0155	-1.416098	-31.5226	0.000183	-0.004

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.001	0.0011

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
70°30'	1838663.3966	30.988119	2365.4159	-0.028306	-0.153
	103518.0496	-1.416247	-31.5116	0.000184	-0.004
70°31'	1840522.6837	30.988176	2363.7175	-0.028319	-0.154
	103433.0748	-1.416395	-31.5006	0.000184	-0.004
70°32'	1842381.9743	30.988233	2362.0184	-0.028332	-0.154
	103348.0911	-1.416544	-31.4895	0.000185	-0.004
70°33'	1844241.2682	30.988290	2360.3184	-0.028346	-0.154
	103263.0984	-1.416692	-31.4784	0.000186	-0.004
70°34'	1846100.5657	30.988347	2358.6177	-0.028359	-0.155
	103178.0969	-1.416840	-31.4673	0.000186	-0.004
70°35'	1847959.8665	30.988405	2356.9161	-0.028372	-0.155
	103093.0866	-1.416988	-31.4561	0.000187	-0.004
70°36'	1849819.1708	30.988462	2355.2138	-0.028386	-0.156
	103008.0673	-1.417135	-31.4449	0.000188	-0.004
70°37'	1851678.4785	30.988519	2353.5106	-0.028399	-0.156
	102923.0392	-1.417283	-31.4336	0.000188	-0.004
70°38'	1853537.7896	30.988576	2351.8067	-0.028412	-0.156
	102838.0022	-1.417431	-31.4223	0.000189	-0.004
70°39'	1855397.1041	30.988632	2350.1019	-0.028426	-0.157
	102752.9564	-1.417578	-31.4110	0.000189	-0.004
70°40'	1857256.4221	30.988689	2348.3964	-0.028439	-0.157
	102667.9017	-1.417725	-31.3996	0.000190	-0.004
70°41'	1859115.7434	30.988746	2346.6900	-0.028452	-0.158
	102582.8382	-1.417872	-31.3882	0.000191	-0.004
70°42'	1860975.0682	30.988803	2344.9829	-0.028466	-0.158
	102497.7658	-1.418019	-31.3768	0.000191	-0.004
70°43'	1862834.3964	30.988860	2343.2750	-0.028479	-0.158
	102412.6847	-1.418166	-31.3653	0.000192	-0.004
70°44'	1864693.7280	30.988917	2341.5662	-0.028492	-0.159
	102327.5947	-1.418313	-31.3538	0.000193	-0.004
70°45'	1866553.0630	30.988973	2339.8567	-0.028505	-0.159
	102242.4959	-1.418460	-31.3422	0.000193	-0.004
70°46'	1868412.4014	30.989030	2338.1464	-0.028519	-0.159
	102157.3883	-1.418606	-31.3307	0.000194	-0.004
70°47'	1870271.7431	30.989086	2336.4353	-0.028532	-0.160
	102072.2719	-1.418753	-31.3190	0.000194	-0.004
70°48'	1872131.0883	30.989143	2334.7233	-0.028545	-0.160
	101987.1467	-1.418899	-31.3074	0.000195	-0.004
70°49'	1873990.4369	30.989200	2333.0106	-0.028558	-0.161
	101902.0128	-1.419045	-31.2957	0.000196	-0.004
70°50'	1875849.7889	30.989256	2331.2971	-0.028572	-0.161
	101816.8701	-1.419191	-31.2839	0.000196	-0.004
70°51'	1877709.1442	30.989312	2329.5828	-0.028585	-0.161
	101731.7186	-1.419337	-31.2721	0.000197	-0.004

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.001	0.0011

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
70°52'	1879568.5030	30.989369	2327.8678	-0.028598	-0.162
	101646.5583	-1.419483	-31.2603	0.000198	-0.004
70°53'	1881427.8651	30.989425	2326.1519	-0.028611	-0.162
	101561.3893	-1.419629	-31.2485	0.000198	-0.004
70°54'	1883287.2306	30.989482	2324.4352	-0.028624	-0.162
	101476.2116	-1.419775	-31.2366	0.000199	-0.004
70°55'	1885146.5995	30.989538	2322.7178	-0.028637	-0.163
	101391.0251	-1.419920	-31.2247	0.000199	-0.004
70°56'	1887005.9718	30.989594	2320.9995	-0.028651	-0.163
	101305.8299	-1.420065	-31.2127	0.000200	-0.004
70°57'	1888865.3475	30.989650	2319.2805	-0.028664	-0.164
	101220.6260	-1.420211	-31.2007	0.000201	-0.004
70°58'	1890724.7265	30.989706	2317.5607	-0.028677	-0.164
	101135.4134	-1.420356	-31.1886	0.000201	-0.004
70°59'	1892584.1088	30.989762	2315.8400	-0.028690	-0.164
	101050.1920	-1.420501	-31.1766	0.000202	-0.004
71° 0'	1894443.4946	30.989819	2314.1187	-0.028703	-0.165
	100964.9620	-1.420645	-31.1645	0.000203	-0.004
71° 1'	1896302.8837	30.989875	2312.3965	-0.028716	-0.165
	100879.7233	-1.420790	-31.1523	0.000203	-0.004
71° 2'	1898162.2762	30.989931	2310.6735	-0.028729	-0.165
	100794.4759	-1.420935	-31.1401	0.000204	-0.004
71° 3'	1900021.6720	30.989987	2308.9497	-0.028742	-0.166
	100709.2198	-1.421079	-31.1279	0.000204	-0.004
71° 4'	1901881.0712	30.990042	2307.2252	-0.028755	-0.166
	100623.9550	-1.421224	-31.1156	0.000205	-0.004
71° 5'	1903740.4738	30.990098	2305.4999	-0.028768	-0.167
	100538.6816	-1.421368	-31.1033	0.000206	-0.004
71° 6'	1905599.8797	30.990154	2303.7738	-0.028781	-0.167
	100453.3995	-1.421512	-31.0910	0.000206	-0.004
71° 7'	1907459.2889	30.990210	2302.0469	-0.028795	-0.167
	100368.1088	-1.421656	-31.0786	0.000207	-0.004
71° 8'	1909318.7015	30.990266	2300.3192	-0.028808	-0.168
	100282.8094	-1.421800	-31.0662	0.000207	-0.004
71° 9'	1911178.1174	30.990321	2298.5908	-0.028821	-0.168
	100197.5014	-1.421944	-31.0538	0.000208	-0.004
71°10'	1913037.5367	30.990377	2296.8615	-0.028834	-0.168
	100112.1848	-1.422087	-31.0413	0.000209	-0.004
71°11'	1914896.9593	30.990433	2295.1315	-0.028847	-0.169
	100026.8596	-1.422231	-31.0288	0.000209	-0.004
71°12'	1916756.3853	30.990488	2293.4007	-0.028860	-0.169
	99941.5257	-1.422374	-31.0162	0.000210	-0.004
71°13'	1918615.8146	30.990544	2291.6692	-0.028873	-0.169
	99856.1833	-1.422518	-31.0036	0.000211	-0.004

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.001	0.0011

Transverse Mercator projection tables

ALASKA 2 - 9 Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
71°14'	1920475.2472	30.990599	2289.9368	-0.028886	-0.170
	99770.8322	-1.422661	-30.9910	0.000211	-0.004
71°15'	1922334.6831	30.990655	2288.2037	-0.028898	-0.170
	99685.4726	-1.422804	-30.9783	0.000212	-0.004
71°16'	1924194.1224	30.990710	2286.4698	-0.028911	-0.170
	99600.1044	-1.422947	-30.9656	0.000212	-0.004
71°17'	1926053.5650	30.990765	2284.7351	-0.028924	-0.171
	99514.7276	-1.423089	-30.9529	0.000213	-0.004
71°18'	1927913.0109	30.990821	2282.9996	-0.028937	-0.171
	99429.3422	-1.423232	-30.9401	0.000214	-0.004
71°19'	1929772.4601	30.990876	2281.2634	-0.028950	-0.171
	99343.9483	-1.423375	-30.9273	0.000214	-0.004
71°20'	1931631.9127	30.990931	2279.5264	-0.028963	-0.172
	99258.5458	-1.423517	-30.9144	0.000215	-0.004
71°21'	1933491.3686	30.990986	2277.7886	-0.028976	-0.172
	99173.1348	-1.423659	-30.9015	0.000215	-0.004
71°22'	1935350.8277	30.991041	2276.0500	-0.028989	-0.172
	99087.7152	-1.423802	-30.8886	0.000216	-0.004
71°23'	1937210.2902	30.991097	2274.3107	-0.029002	-0.173
	99002.2871	-1.423944	-30.8756	0.000217	-0.004
71°24'	1939069.7560	30.991152	2272.5706	-0.029015	-0.173
	98916.8505	-1.424085	-30.8626	0.000217	-0.004
71°25'	1940929.2251	30.991207	2270.8297	-0.029028	-0.173
	98831.4054	-1.424227	-30.8496	0.000218	-0.004

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IV)	0.0000	0.0006	0.001	0.0011

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
54° 0'	-0.0000	30.915008	3482.8620	0.035307	75.636
	54903.8133	0.365701	1073.2135	0.024433	39.541
54° 1'	1854.9005	30.915094	3484.9804	0.035335	75.731
	54925.7553	0.366072	1074.6794	0.024478	39.632
54° 2'	3709.8061	30.915180	3487.1006	0.035363	75.827
	54947.7196	0.366443	1076.1481	0.024524	39.724
54° 3'	5564.7169	30.915266	3489.2224	0.035392	75.922
	54969.7062	0.366815	1077.6196	0.024570	39.816
54° 4'	7419.6329	30.915353	3491.3459	0.035420	76.018
	54991.7151	0.367187	1079.0937	0.024615	39.908
54° 5'	9274.5541	30.915439	3493.4711	0.035449	76.114
	55013.7464	0.367560	1080.5707	0.024661	40.000
54° 6'	11129.4804	30.915525	3495.5980	0.035477	76.210
	55035.8000	0.367933	1082.0503	0.024707	40.093
54° 7'	12984.4119	30.915611	3497.7266	0.035505	76.306
	55057.8760	0.368307	1083.5328	0.024753	40.186
54° 8'	14839.3485	30.915697	3499.8569	0.035534	76.402
	55079.9744	0.368682	1085.0180	0.024800	40.279
54° 9'	16694.2904	30.915783	3501.9890	0.035563	76.499
	55102.0953	0.369057	1086.5060	0.024846	40.372
54°10'	18549.2374	30.915869	3504.1227	0.035591	76.596
	55124.2387	0.369432	1087.9967	0.024893	40.466
54°11'	20404.1895	30.915956	3506.2582	0.035620	76.692
	55146.4046	0.369808	1089.4903	0.024939	40.560
54°12'	22259.1469	30.916042	3508.3954	0.035649	76.790
	55168.5931	0.370184	1090.9866	0.024986	40.654
54°13'	24114.1094	30.916128	3510.5343	0.035677	76.887
	55190.8042	0.370561	1092.4858	0.025033	40.749
54°14'	25969.0770	30.916214	3512.6749	0.035706	76.984
	55213.0378	0.370939	1093.9878	0.025080	40.843
54°15'	27824.0498	30.916300	3514.8173	0.035735	77.082
	55235.2941	0.371317	1095.4925	0.025127	40.938
54°16'	29679.0278	30.916386	3516.9614	0.035764	77.179
	55257.5731	0.371695	1097.0001	0.025174	41.034
54°17'	31534.0110	30.916472	3519.1072	0.035793	77.277
	55279.8749	0.372074	1098.5106	0.025221	41.129
54°18'	33388.9993	30.916558	3521.2548	0.035822	77.375
	55302.1993	0.372454	1100.0238	0.025268	41.225
54°19'	35243.9927	30.916644	3523.4041	0.035851	77.474
	55324.5465	0.372834	1101.5399	0.025316	41.321
54°20'	37098.9913	30.916730	3525.5551	0.035880	77.572
	55346.9166	0.373214	1103.0589	0.025363	41.417
54°21'	38953.9951	30.916815	3527.7079	0.035909	77.671
	55369.3094	0.373596	1104.5807	0.025411	41.514

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0016	-0.0025	-0.0029

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
54°22'	40809.0040	30.916901	3529.8624	0.035938	77.769
	55391.7252	0.373977	1106.1054	0.025459	41.611
54°23'	42664.0181	30.916987	3532.0186	0.035967	77.868
	55414.1638	0.374359	1107.6329	0.025507	41.708
54°24'	44519.0374	30.917073	3534.1767	0.035996	77.968
	55436.6254	0.374742	1109.1633	0.025555	41.805
54°25'	46374.0617	30.917159	3536.3364	0.036025	78.067
	55459.1099	0.375125	1110.6966	0.025603	41.903
54°26'	48229.0913	30.917245	3538.4979	0.036055	78.166
	55481.6174	0.375509	1112.2328	0.025651	42.001
54°27'	50084.1260	30.917331	3540.6612	0.036084	78.266
	55504.1480	0.375893	1113.7718	0.025700	42.099
54°28'	51939.1658	30.917416	3542.8263	0.036113	78.366
	55526.7016	0.376278	1115.3138	0.025748	42.198
54°29'	53794.2108	30.917502	3544.9930	0.036143	78.466
	55549.2783	0.376664	1116.8587	0.025797	42.296
54°30'	55649.2609	30.917588	3547.1616	0.036172	78.566
	55571.8781	0.377050	1118.4065	0.025845	42.395
54°31'	57504.3162	30.917674	3549.3319	0.036202	78.666
	55594.5011	0.377436	1119.9572	0.025894	42.495
54°32'	59359.3766	30.917759	3551.5040	0.036231	78.767
	55617.1472	0.377823	1121.5109	0.025943	42.594
54°33'	61214.4422	30.917845	3553.6779	0.036261	78.868
	55639.8166	0.378211	1123.0675	0.025992	42.694
54°34'	63069.5129	30.917931	3555.8535	0.036290	78.969
	55662.5092	0.378599	1124.6270	0.026041	42.794
54°35'	64924.5888	30.918017	3558.0310	0.036320	79.070
	55685.2251	0.378987	1126.1895	0.026091	42.895
54°36'	66779.6698	30.918102	3560.2102	0.036350	79.171
	55707.9644	0.379376	1127.7549	0.026140	42.996
54°37'	68634.7559	30.918188	3562.3911	0.036379	79.272
	55730.7270	0.379766	1129.3233	0.026189	43.097
54°38'	70489.8472	30.918274	3564.5739	0.036409	79.374
	55753.5129	0.380156	1130.8947	0.026239	43.198
54°39'	72344.9436	30.918359	3566.7585	0.036439	79.476
	55776.3223	0.380547	1132.4690	0.026289	43.300
54°40'	74200.0451	30.918445	3568.9448	0.036469	79.578
	55799.1551	0.380938	1134.0464	0.026339	43.401
54°41'	76055.1518	30.918530	3571.1329	0.036499	79.680
	55822.0114	0.381330	1135.6267	0.026389	43.504
54°42'	77910.2636	30.918616	3573.3229	0.036529	79.782
	55844.8912	0.381723	1137.2100	0.026439	43.606
54°43'	79765.3806	30.918701	3575.5146	0.036559	79.885
	55867.7946	0.382116	1138.7963	0.026489	43.709

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0016	-0.0026	-0.0030

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
54°44'	81620.5027	30.918787	3577.7081	0.036589	79.987
	55890.7216	0.382509	1140.3857	0.026539	43.812
54°45'	83475.6299	30.918872	3579.9035	0.036619	80.090
	55913.6721	0.382903	1141.9780	0.026590	43.915
54°46'	85330.7622	30.918958	3582.1006	0.036649	80.193
	55936.6463	0.383298	1143.5734	0.026640	44.019
54°47'	87185.8997	30.919043	3584.2995	0.036679	80.297
	55959.6442	0.383693	1145.1718	0.026691	44.123
54°48'	89041.0423	30.919129	3586.5003	0.036709	80.400
	55982.6658	0.384089	1146.7733	0.026742	44.227
54°49'	90896.1901	30.919214	3588.7028	0.036740	80.504
	56005.7111	0.384485	1148.3778	0.026793	44.332
54°50'	92751.3429	30.919300	3590.9072	0.036770	80.608
	56028.7802	0.384882	1149.9854	0.026844	44.436
54°51'	94606.5009	30.919385	3593.1134	0.036800	80.712
	56051.8731	0.385279	1151.5960	0.026895	44.542
54°52'	96461.6640	30.919471	3595.3215	0.036831	80.816
	56074.9899	0.385677	1153.2097	0.026946	44.647
54°53'	98316.8323	30.919556	3597.5313	0.036861	80.920
	56098.1305	0.386076	1154.8265	0.026998	44.753
54°54'	100172.0056	30.919641	3599.7430	0.036892	81.025
	56121.2950	0.386475	1156.4464	0.027049	44.859
54°55'	102027.1841	30.919727	3601.9565	0.036922	81.130
	56144.4835	0.386875	1158.0693	0.027101	44.965
54°56'	103882.3677	30.919812	3604.1718	0.036953	81.234
	56167.6960	0.387275	1159.6954	0.027153	45.072
54°57'	105737.5564	30.919897	3606.3890	0.036983	81.340
	56190.9325	0.387675	1161.3245	0.027205	45.179
54°58'	107592.7503	30.919983	3608.6080	0.037014	81.445
	56214.1930	0.388077	1162.9568	0.027257	45.286
54°59'	109447.9492	30.920068	3610.8288	0.037045	81.550
	56237.4776	0.388479	1164.5922	0.027309	45.393
55° 0'	111303.1533	30.920153	3613.0515	0.037075	81.656
	56260.7863	0.388881	1166.2307	0.027361	45.501
55° 1'	113158.3625	30.920238	3615.2760	0.037106	81.762
	56284.1192	0.389284	1167.8724	0.027413	45.609
55° 2'	115013.5768	30.920324	3617.5024	0.037137	81.868
	56307.4763	0.389688	1169.5172	0.027466	45.718
55° 3'	116868.7962	30.920409	3619.7306	0.037168	81.974
	56330.8575	0.390092	1171.1652	0.027519	45.827
55° 4'	118724.0207	30.920494	3621.9607	0.037199	82.081
	56354.2631	0.390497	1172.8163	0.027571	45.936
55° 5'	120579.2504	30.920579	3624.1926	0.037230	82.188
	56377.6929	0.390902	1174.4706	0.027624	46.045

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0017	-0.0027	-0.0030

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
55° 6'	122434.4851	30.920664	3626.4264	0.037261	82.294
	56401.1470	0.391308	1176.1280	0.027677	46.155
55° 7'	124289.7250	30.920749	3628.6621	0.037292	82.402
	56424.6255	0.391714	1177.7887	0.027731	46.265
55° 8'	126144.9699	30.920835	3630.8996	0.037323	82.509
	56448.1283	0.392121	1179.4525	0.027784	46.375
55° 9'	128000.2200	30.920920	3633.1390	0.037354	82.616
	56471.6556	0.392529	1181.1195	0.027837	46.486
55°10'	129855.4752	30.921005	3635.3803	0.037385	82.724
	56495.2073	0.392937	1182.7898	0.027891	46.597
55°11'	131710.7355	30.921090	3637.6234	0.037417	82.832
	56518.7836	0.393346	1184.4632	0.027944	46.708
55°12'	133566.0008	30.921175	3639.8684	0.037448	82.940
	56542.3843	0.393755	1186.1399	0.027998	46.820
55°13'	135421.2713	30.921260	3642.1153	0.037479	83.048
	56566.0097	0.394165	1187.8198	0.028052	46.932
55°14'	137276.5469	30.921345	3644.3640	0.037511	83.156
	56589.6596	0.394576	1189.5029	0.028106	47.044
55°15'	139131.8276	30.921430	3646.6147	0.037542	83.265
	56613.3341	0.394987	1191.1893	0.028160	47.157
55°16'	140987.1134	30.921515	3648.8672	0.037574	83.374
	56637.0333	0.395399	1192.8789	0.028215	47.269
55°17'	142842.4043	30.921600	3651.1216	0.037605	83.483
	56660.7573	0.395811	1194.5718	0.028269	47.383
55°18'	144697.7003	30.921685	3653.3779	0.037637	83.592
	56684.5059	0.396224	1196.2679	0.028324	47.496
55°19'	146553.0013	30.921770	3655.6361	0.037668	83.701
	56708.2793	0.396637	1197.9674	0.028378	47.610
55°20'	148408.3075	30.921854	3657.8962	0.037700	83.811
	56732.0776	0.397051	1199.6701	0.028433	47.724
55°21'	150263.6188	30.921939	3660.1582	0.037732	83.921
	56755.9006	0.397466	1201.3761	0.028488	47.839
55°22'	152118.9351	30.922024	3662.4221	0.037763	84.031
	56779.7486	0.397881	1203.0854	0.028543	47.954
55°23'	153974.2566	30.922109	3664.6879	0.037795	84.141
	56803.6215	0.398297	1204.7980	0.028599	48.069
55°24'	155829.5831	30.922194	3666.9556	0.037827	84.251
	56827.5193	0.398713	1206.5139	0.028654	48.184
55°25'	157684.9148	30.922279	3669.2253	0.037859	84.362
	56851.4421	0.399130	1208.2331	0.028709	48.300
55°26'	159540.2515	30.922363	3671.4968	0.037891	84.473
	56875.3899	0.399548	1209.9557	0.028765	48.417
55°27'	161395.5933	30.922448	3673.7703	0.037923	84.584
	56899.3628	0.399966	1211.6816	0.028821	48.533

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0017	-0.0028	-0.0031

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
56°34'	285715.0231	30.928084	3830.6103	0.040178	92.511
	58564.5620	0.429409	1335.3640	0.032884	57.171
56°35'	287570.7081	30.928167	3833.0210	0.040214	92.637
	58590.3265	0.429871	1337.3370	0.032950	57.314
56°36'	289426.3982	30.928251	3835.4338	0.040249	92.764
	58616.1188	0.430333	1339.3140	0.033016	57.457
56°37'	291282.0932	30.928334	3837.8488	0.040285	92.890
	58641.9387	0.430796	1341.2950	0.033083	57.600
56°38'	293137.7933	30.928418	3840.2659	0.040320	93.017
	58667.7865	0.431260	1343.2800	0.033149	57.743
56°39'	294993.4983	30.928501	3842.6851	0.040356	93.144
	58693.6621	0.431724	1345.2689	0.033215	57.887
56°40'	296849.2084	30.928584	3845.1064	0.040392	93.271
	58719.5655	0.432189	1347.2618	0.033282	58.032
56°41'	298704.9235	30.928668	3847.5299	0.040427	93.399
	58745.4969	0.432655	1349.2588	0.033349	58.177
56°42'	300560.6435	30.928751	3849.9556	0.040463	93.527
	58771.4562	0.433122	1351.2597	0.033416	58.322
56°43'	302416.3686	30.928834	3852.3834	0.040499	93.654
	58797.4435	0.433589	1353.2647	0.033483	58.468
56°44'	304272.0986	30.928918	3854.8133	0.040535	93.783
	58823.4588	0.434057	1355.2737	0.033551	58.614
56°45'	306127.8337	30.929001	3857.2454	0.040571	93.911
	58849.5022	0.434525	1357.2867	0.033618	58.761
56°46'	307983.5737	30.929084	3859.6796	0.040607	94.040
	58875.5737	0.434995	1359.3038	0.033686	58.908
56°47'	309839.3188	30.929167	3862.1160	0.040643	94.169
	58901.6734	0.435465	1361.3250	0.033754	59.055
56°48'	311695.0688	30.929250	3864.5546	0.040679	94.298
	58927.8013	0.435935	1363.3502	0.033822	59.203
56°49'	313550.8238	30.929334	3866.9953	0.040715	94.427
	58953.9574	0.436407	1365.3795	0.033890	59.352
56°50'	315406.5838	30.929417	3869.4383	0.040751	94.557
	58980.1418	0.436879	1367.4129	0.033958	59.501
56°51'	317262.3488	30.929500	3871.8833	0.040788	94.687
	59006.3545	0.437351	1369.4504	0.034027	59.650
56°52'	319118.1188	30.929583	3874.3306	0.040824	94.817
	59032.5956	0.437825	1371.4921	0.034096	59.800
56°53'	320973.8938	30.929666	3876.7800	0.040860	94.948
	59058.8651	0.438299	1373.5378	0.034165	59.950
56°54'	322829.6737	30.929749	3879.2317	0.040897	95.078
	59085.1630	0.438774	1375.5877	0.034234	60.101
56°55'	324685.4587	30.929832	3881.6855	0.040933	95.209
	59111.4895	0.439250	1377.6417	0.034303	60.252

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0020	-0.0032	-0.0036

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
56°56'	326541.2486	30.929915	3884.1415	0.040970	95.341
	59137.8445	0.439726	1379.6999	0.034372	60.404
56°57'	328397.0435	30.929998	3886.5997	0.041007	95.472
	59164.2280	0.440203	1381.7622	0.034442	60.556
56°58'	330252.8434	30.930081	3889.0601	0.041043	95.604
	59190.6402	0.440681	1383.8288	0.034512	60.708
56°59'	332108.6482	30.930164	3891.5227	0.041080	95.736
	59217.0811	0.441159	1385.8995	0.034582	60.861
57° 0'	333964.4581	30.930247	3893.9875	0.041117	95.868
	59243.5506	0.441639	1387.9744	0.034652	61.015
57° 1'	335820.2729	30.930330	3896.4545	0.041154	96.000
	59270.0490	0.442119	1390.0535	0.034722	61.168
57° 2'	337676.0927	30.930413	3898.9237	0.041191	96.133
	59296.5761	0.442599	1392.1369	0.034793	61.323
57° 3'	339531.9174	30.930495	3901.3951	0.041227	96.266
	59323.1320	0.443081	1394.2244	0.034863	61.478
57° 4'	341387.7471	30.930578	3903.8688	0.041265	96.399
	59349.7169	0.443563	1396.3162	0.034934	61.633
57° 5'	343243.5818	30.930661	3906.3446	0.041302	96.533
	59376.3306	0.444045	1398.4123	0.035005	61.789
57° 6'	345099.4215	30.930744	3908.8227	0.041339	96.667
	59402.9733	0.444529	1400.5126	0.035077	61.945
57° 7'	346955.2662	30.930827	3911.3031	0.041376	96.801
	59429.6451	0.445013	1402.6172	0.035148	62.102
57° 8'	348811.1158	30.930909	3913.7856	0.041413	96.935
	59456.3459	0.445498	1404.7261	0.035220	62.259
57° 9'	350666.9703	30.930992	3916.2704	0.041450	97.069
	59483.0758	0.445984	1406.8393	0.035291	62.417
57°10'	352522.8299	30.931075	3918.7574	0.041488	97.204
	59509.8348	0.446471	1408.9567	0.035363	62.575
57°11'	354378.6944	30.931158	3921.2467	0.041525	97.339
	59536.6231	0.446958	1411.0785	0.035435	62.734
57°12'	356234.5638	30.931240	3923.7382	0.041563	97.475
	59563.4405	0.447446	1413.2046	0.035508	62.893
57°13'	358090.4382	30.931323	3926.2320	0.041600	97.610
	59590.2873	0.447934	1415.3351	0.035580	63.052
57°14'	359946.3176	30.931406	3928.7280	0.041638	97.746
	59617.1633	0.448424	1417.4699	0.035653	63.212
57°15'	361802.2019	30.931488	3931.2263	0.041675	97.882
	59644.0687	0.448914	1419.6091	0.035726	63.373
57°16'	363658.0912	30.931571	3933.7268	0.041713	98.018
	59671.0036	0.449405	1421.7526	0.035799	63.534
57°17'	365513.9855	30.931653	3936.2296	0.041751	98.155
	59697.9679	0.449896	1423.9005	0.035872	63.696

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0021	-0.0033	-0.0037

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
57°18'	367369.8847	30.931736	3938.7346	0.041789	98.292
	59724.9616	0.450389	1426.0529	0.035945	63.858
57°19'	369225.7888	30.931818	3941.2420	0.041827	98.429
	59751.9850	0.450882	1428.2096	0.036019	64.020
57°20'	371081.6979	30.931901	3943.7516	0.041865	98.567
	59779.0379	0.451376	1430.3707	0.036093	64.183
57°21'	372937.6120	30.931983	3946.2634	0.041903	98.704
	59806.1204	0.451870	1432.5363	0.036167	64.347
57°22'	374793.5310	30.932066	3948.7776	0.041941	98.842
	59833.2327	0.452366	1434.7063	0.036241	64.511
57°23'	376649.4549	30.932148	3951.2940	0.041979	98.981
	59860.3746	0.452862	1436.8807	0.036315	64.676
57°24'	378505.3838	30.932231	3953.8128	0.042017	99.119
	59887.5463	0.453359	1439.0596	0.036390	64.841
57°25'	380361.3177	30.932313	3956.3338	0.042055	99.258
	59914.7479	0.453857	1441.2430	0.036464	65.006
57°26'	382217.2565	30.932395	3958.8571	0.042094	99.397
	59941.9793	0.454355	1443.4309	0.036539	65.172
57°27'	384073.2002	30.932478	3961.3827	0.042132	99.536
	59969.2406	0.454854	1445.6233	0.036615	65.339
57°28'	385929.1488	30.932560	3963.9106	0.042170	99.676
	59996.5318	0.455354	1447.8201	0.036690	65.506
57°29'	387785.1025	30.932642	3966.4409	0.042209	99.816
	60023.8530	0.455855	1450.0215	0.036765	65.674
57°30'	389641.0610	30.932725	3968.9734	0.042247	99.956
	60051.2043	0.456356	1452.2274	0.036841	65.842
57°31'	391497.0245	30.932807	3971.5082	0.042286	100.096
	60078.5857	0.456858	1454.4379	0.036917	66.011
57°32'	393352.9929	30.932889	3974.0454	0.042325	100.237
	60105.9972	0.457361	1456.6529	0.036993	66.180
57°33'	395208.9662	30.932971	3976.5849	0.042363	100.378
	60133.4389	0.457865	1458.8725	0.037069	66.350
57°34'	397064.9445	30.933054	3979.1267	0.042402	100.519
	60160.9108	0.458370	1461.0966	0.037146	66.520
57°35'	398920.9277	30.933136	3981.6708	0.042441	100.661
	60188.4130	0.458875	1463.3254	0.037222	66.691
57°36'	400776.9159	30.933218	3984.2172	0.042480	100.803
	60215.9454	0.459381	1465.5587	0.037299	66.862
57°37'	402632.9090	30.933300	3986.7660	0.042519	100.945
	60243.5083	0.459888	1467.7967	0.037376	67.034
57°38'	404488.9070	30.933382	3989.3172	0.042558	101.087
	60271.1016	0.460395	1470.0393	0.037454	67.206
57°39'	406344.9099	30.933464	3991.8706	0.042597	101.230
	60298.7253	0.460904	1472.2865	0.037531	67.379

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0021	-0.0034	-0.0038

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
57°40'	408200.9177	30.933546	3994.4264	0.042636	101.373
	60326.3795	0.461413	1474.5384	0.037609	67.552
57°41'	410056.9305	30.933628	3996.9846	0.042675	101.516
	60354.0643	0.461923	1476.7949	0.037687	67.726
57°42'	411912.9482	30.933710	3999.5451	0.042715	101.659
	60381.7797	0.462434	1479.0561	0.037765	67.901
57°43'	413768.9708	30.933792	4002.1080	0.042754	101.803
	60409.5257	0.462945	1481.3220	0.037843	68.076
57°44'	415624.9984	30.933874	4004.6732	0.042793	101.947
	60437.3024	0.463457	1483.5926	0.037921	68.251
57°45'	417481.0308	30.933956	4007.2408	0.042833	102.092
	60465.1098	0.463971	1485.8679	0.038000	68.427
57°46'	419337.0682	30.934038	4009.8108	0.042872	102.236
	60492.9481	0.464484	1488.1479	0.038079	68.604
57°47'	421193.1105	30.934120	4012.3831	0.042912	102.381
	60520.8171	0.464999	1490.4326	0.038158	68.781
57°48'	423049.1577	30.934202	4014.9578	0.042951	102.526
	60548.7171	0.465515	1492.7221	0.038237	68.959
57°49'	424905.2098	30.934284	4017.5349	0.042991	102.672
	60576.6480	0.466031	1495.0163	0.038317	69.137
57°50'	426761.2668	30.934366	4020.1144	0.043031	102.818
	60604.6098	0.466548	1497.3153	0.038397	69.316
57°51'	428617.3288	30.934447	4022.6963	0.043071	102.964
	60632.6027	0.467066	1499.6191	0.038476	69.496
57°52'	430473.3956	30.934529	4025.2805	0.043111	103.110
	60660.6266	0.467584	1501.9277	0.038557	69.676
57°53'	432329.4674	30.934611	4027.8671	0.043151	103.257
	60688.6817	0.468104	1504.2411	0.038637	69.856
57°54'	434185.5440	30.934693	4030.4562	0.043191	103.404
	60716.7679	0.468624	1506.5593	0.038717	70.037
57°55'	436041.6256	30.934774	4033.0476	0.043231	103.551
	60744.8853	0.469145	1508.8824	0.038798	70.219
57°56'	437897.7121	30.934856	4035.6415	0.043271	103.699
	60773.0340	0.469667	1511.2103	0.038879	70.401
57°57'	439753.8034	30.934938	4038.2377	0.043311	103.846
	60801.2141	0.470190	1513.5430	0.038960	70.584
57°58'	441609.8997	30.935019	4040.8364	0.043351	103.995
	60829.4254	0.470713	1515.8807	0.039042	70.767
57°59'	443466.0009	30.935101	4043.4375	0.043392	104.143
	60857.6682	0.471237	1518.2232	0.039123	70.951
58° 0'	445322.1069	30.935183	4046.0410	0.043432	104.292
	60885.9425	0.471763	1520.5705	0.039205	71.136
58° 1'	447178.2179	30.935264	4048.6469	0.043473	104.441
	60914.2482	0.472288	1522.9228	0.039287	71.321

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0022	-0.0035	-0.0040

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
58° 2'	449034.3338	30.935346	4051.2552	0.043513	104.590
	60942.5855	0.472815	1525.2801	0.039369	71.507
58° 3'	450890.4545	30.935427	4053.8660	0.043554	104.740
	60970.9544	0.473343	1527.6422	0.039452	71.693
58° 4'	452746.5802	30.935509	4056.4792	0.043594	104.890
	60999.3550	0.473871	1530.0093	0.039534	71.880
58° 5'	454602.7107	30.935590	4059.0949	0.043635	105.040
	61027.7873	0.474400	1532.3814	0.039617	72.067
58° 6'	456458.8461	30.935672	4061.7130	0.043676	105.190
	61056.2513	0.474930	1534.7584	0.039700	72.255
58° 7'	458314.9864	30.935753	4064.3336	0.043717	105.341
	61084.7471	0.475461	1537.1404	0.039784	72.444
58° 8'	460171.1316	30.935835	4066.9566	0.043758	105.492
	61113.2748	0.475993	1539.5275	0.039867	72.633
58° 9'	462027.2817	30.935916	4069.5820	0.043799	105.644
	61141.8343	0.476525	1541.9195	0.039951	72.823
58°10'	463883.4367	30.935998	4072.2099	0.043840	105.795
	61170.4258	0.477059	1544.3165	0.040035	73.013
58°11'	465739.5965	30.936079	4074.8403	0.043881	105.947
	61199.0494	0.477593	1546.7186	0.040119	73.204
58°12'	467595.7613	30.936160	4077.4731	0.043922	106.100
	61227.7049	0.478128	1549.1258	0.040203	73.396
58°13'	469451.9309	30.936242	4080.1085	0.043963	106.252
	61256.3926	0.478664	1551.5380	0.040288	73.588
58°14'	471308.1054	30.936323	4082.7462	0.044004	106.405
	61285.1124	0.479200	1553.9553	0.040373	73.781
58°15'	473164.2848	30.936404	4085.3865	0.044046	106.559
	61313.8644	0.479738	1556.3776	0.040458	73.974
58°16'	475020.4690	30.936485	4088.0293	0.044087	106.712
	61342.6487	0.480276	1558.8051	0.040543	74.168
58°17'	476876.6581	30.936567	4090.6745	0.044129	106.866
	61371.4652	0.480815	1561.2377	0.040629	74.363
58°18'	478732.8521	30.936648	4093.3222	0.044170	107.020
	61400.3142	0.481355	1563.6754	0.040714	74.558
58°19'	480589.0510	30.936729	4095.9724	0.044212	107.175
	61429.1955	0.481896	1566.1183	0.040800	74.754
58°20'	482445.2547	30.936810	4098.6252	0.044254	107.330
	61458.1092	0.482438	1568.5663	0.040887	74.950
58°21'	484301.4633	30.936891	4101.2804	0.044295	107.485
	61487.0555	0.482980	1571.0195	0.040973	75.147
58°22'	486157.6768	30.936972	4103.9381	0.044337	107.640
	61516.0343	0.483524	1573.4779	0.041060	75.345
58°23'	488013.8951	30.937053	4106.5984	0.044379	107.796
	61545.0457	0.484068	1575.9415	0.041147	75.544

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0023	-0.0036	-0.0041

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
58° 2'	449034.3338	30.935346	4051.2552	0.043513	104.590
	60942.5855	0.472815	1525.2801	0.039369	71.507
58° 3'	450890.4545	30.935427	4053.8660	0.043554	104.740
	60970.9544	0.473343	1527.6422	0.039452	71.693
58° 4'	452746.5802	30.935509	4056.4792	0.043594	104.890
	60999.3550	0.473871	1530.0093	0.039534	71.880
58° 5'	454602.7107	30.935590	4059.0949	0.043635	105.040
	61027.7873	0.474400	1532.3814	0.039617	72.067
58° 6'	456458.8461	30.935672	4061.7130	0.043676	105.190
	61056.2513	0.474930	1534.7584	0.039700	72.255
58° 7'	458314.9864	30.935753	4064.3336	0.043717	105.341
	61084.7471	0.475461	1537.1404	0.039784	72.444
58° 8'	460171.1316	30.935835	4066.9566	0.043758	105.492
	61113.2748	0.475993	1539.5275	0.039867	72.633
58° 9'	462027.2817	30.935916	4069.5820	0.043799	105.644
	61141.8343	0.476525	1541.9195	0.039951	72.823
58°10'	463883.4367	30.935998	4072.2099	0.043840	105.795
	61170.4258	0.477059	1544.3165	0.040035	73.013
58°11'	465739.5965	30.936079	4074.8403	0.043881	105.947
	61199.0494	0.477593	1546.7186	0.040119	73.204
58°12'	467595.7613	30.936160	4077.4731	0.043922	106.100
	61227.7049	0.478128	1549.1258	0.040203	73.396
58°13'	469451.9309	30.936242	4080.1085	0.043963	106.252
	61256.3926	0.478664	1551.5380	0.040288	73.588
58°14'	471308.1054	30.936323	4082.7462	0.044004	106.405
	61285.1124	0.479200	1553.9553	0.040373	73.781
58°15'	473164.2848	30.936404	4085.3865	0.044046	106.559
	61313.8644	0.479738	1556.3776	0.040458	73.974
58°16'	475020.4690	30.936485	4088.0293	0.044087	106.712
	61342.6487	0.480276	1558.8051	0.040543	74.168
58°17'	476876.6581	30.936567	4090.6745	0.044129	106.866
	61371.4652	0.480815	1561.2377	0.040629	74.363
58°18'	478732.8521	30.936648	4093.3222	0.044170	107.020
	61400.3142	0.481355	1563.6754	0.040714	74.558
58°19'	480589.0510	30.936729	4095.9724	0.044212	107.175
	61429.1955	0.481896	1566.1183	0.040800	74.754
58°20'	482445.2547	30.936810	4098.6252	0.044254	107.330
	61458.1092	0.482438	1568.5663	0.040887	74.950
58°21'	484301.4633	30.936891	4101.2804	0.044295	107.485
	61487.0555	0.482980	1571.0195	0.040973	75.147
58°22'	486157.6768	30.936972	4103.9381	0.044337	107.640
	61516.0343	0.483524	1573.4779	0.041060	75.345
58°23'	488013.8951	30.937053	4106.5984	0.044379	107.796
	61545.0457	0.484068	1575.9415	0.041147	75.544

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0023	-0.0036	-0.0041

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
58°24'	489870.1183	30.937134	4109.2611	0.044421	107.952
	61574.0898	0.484613	1578.4103	0.041234	75.742
58°25'	491726.3464	30.937215	4111.9264	0.044463	108.108
	61603.1666	0.485159	1580.8843	0.041321	75.942
58°26'	493582.5793	30.937296	4114.5942	0.044505	108.265
	61632.2762	0.485706	1583.3635	0.041409	76.142
58°27'	495438.8171	30.937377	4117.2645	0.044548	108.422
	61661.4185	0.486254	1585.8481	0.041496	76.343
58°28'	497295.0598	30.937458	4119.9373	0.044590	108.579
	61690.5938	0.486802	1588.3378	0.041584	76.545
58°29'	499151.3073	30.937539	4122.6127	0.044632	108.737
	61719.8019	0.487352	1590.8329	0.041673	76.747
58°30'	501007.5596	30.937620	4125.2906	0.044674	108.895
	61749.0430	0.487902	1593.3332	0.041761	76.950
58°31'	502863.8168	30.937701	4127.9711	0.044717	109.053
	61778.3171	0.488453	1595.8389	0.041850	77.153
58°32'	504720.0789	30.937782	4130.6541	0.044759	109.212
	61807.6243	0.489005	1598.3499	0.041939	77.357
58°33'	506576.3458	30.937863	4133.3397	0.044802	109.371
	61836.9646	0.489558	1600.8662	0.042028	77.562
58°34'	508432.6176	30.937944	4136.0278	0.044845	109.530
	61866.3381	0.490112	1603.3879	0.042117	77.767
58°35'	510288.8942	30.938024	4138.7185	0.044887	109.690
	61895.7448	0.490666	1605.9149	0.042207	77.973
58°36'	512145.1757	30.938105	4141.4117	0.044930	109.850
	61925.1848	0.491222	1608.4474	0.042297	78.180
58°37'	514001.4620	30.938186	4144.1075	0.044973	110.010
	61954.6581	0.491778	1610.9852	0.042387	78.387
58°38'	515857.7532	30.938267	4146.8059	0.045016	110.170
	61984.1648	0.492336	1613.5284	0.042478	78.595
58°39'	517714.0492	30.938347	4149.5069	0.045059	110.331
	62013.7049	0.492894	1616.0771	0.042568	78.804
58°40'	519570.3500	30.938428	4152.2104	0.045102	110.492
	62043.2786	0.493453	1618.6312	0.042659	79.013
58°41'	521426.6557	30.938509	4154.9165	0.045145	110.654
	62072.8857	0.494013	1621.1907	0.042750	79.223
58°42'	523282.9662	30.938589	4157.6252	0.045188	110.816
	62102.5265	0.494574	1623.7557	0.042841	79.434
58°43'	525139.2816	30.938670	4160.3365	0.045232	110.978
	62132.2009	0.495135	1626.3262	0.042933	79.645
58°44'	526995.6018	30.938751	4163.0504	0.045275	111.141
	62161.9090	0.495698	1628.9022	0.043025	79.857
58°45'	528851.9268	30.938831	4165.7669	0.045318	111.304
	62191.6509	0.496261	1631.4837	0.043117	80.070

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0024	-0.0038	-0.0042

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
58°46'	530708.2567	30.938912	4168.4860	0.045362	111.467
	62221.4266	0.496826	1634.0707	0.043209	80.284
58°47'	532564.5914	30.938992	4171.2077	0.045405	111.630
	62251.2361	0.497391	1636.6632	0.043302	80.498
58°48'	534420.9309	30.939073	4173.9321	0.045449	111.794
	62281.0796	0.497957	1639.2614	0.043395	80.712
58°49'	536277.2752	30.939153	4176.6590	0.045493	111.958
	62310.9570	0.498524	1641.8650	0.043488	80.928
58°50'	538133.6244	30.939233	4179.3886	0.045537	112.123
	62340.8685	0.499092	1644.4743	0.043581	81.144
58°51'	539989.9784	30.939314	4182.1208	0.045580	112.288
	62370.8140	0.499661	1647.0892	0.043675	81.361
58°52'	541846.3373	30.939394	4184.8556	0.045624	112.453
	62400.7937	0.500231	1649.7097	0.043769	81.578
58°53'	543702.7009	30.939475	4187.5930	0.045668	112.619
	62430.8076	0.500802	1652.3358	0.043863	81.797
58°54'	545559.0694	30.939555	4190.3331	0.045712	112.785
	62460.8557	0.501373	1654.9675	0.043957	82.015
58°55'	547415.4427	30.939635	4193.0759	0.045756	112.951
	62490.9381	0.501946	1657.6049	0.044051	82.235
58°56'	549271.8208	30.939716	4195.8213	0.045801	113.117
	62521.0548	0.502519	1660.2480	0.044146	82.455
58°57'	551128.2038	30.939796	4198.5693	0.045845	113.284
	62551.2060	0.503094	1662.8968	0.044241	82.677
58°58'	552984.5915	30.939876	4201.3200	0.045889	113.452
	62581.3916	0.503669	1665.5513	0.044337	82.898
58°59'	554840.9841	30.939956	4204.0733	0.045934	113.619
	62611.6118	0.504245	1668.2115	0.044432	83.121
59° 0'	556697.3815	30.940036	4206.8294	0.045978	113.787
	62641.8665	0.504822	1670.8774	0.044528	83.344
59° 1'	558553.7837	30.940117	4209.5881	0.046023	113.956
	62672.1558	0.505400	1673.5491	0.044624	83.568
59° 2'	560410.1907	30.940197	4212.3494	0.046067	114.124
	62702.4798	0.505979	1676.2266	0.044721	83.793
59° 3'	562266.6025	30.940277	4215.1135	0.046112	114.293
	62732.8386	0.506559	1678.9098	0.044817	84.018
59° 4'	564123.0191	30.940357	4217.8802	0.046157	114.463
	62763.2321	0.507140	1681.5989	0.044914	84.244
59° 5'	565979.4405	30.940437	4220.6496	0.046202	114.632
	62793.6606	0.507722	1684.2937	0.045011	84.471
59° 6'	567835.8667	30.940517	4223.4217	0.046247	114.803
	62824.1239	0.508305	1686.9944	0.045109	84.698
59° 7'	569692.2977	30.940597	4226.1965	0.046292	114.973
	62854.6221	0.508888	1689.7009	0.045206	84.927

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0024	-0.0039	-0.0044

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
59° 8'	571548.7336	30.940677	4228.9740	0.046337	115.144
	62885.1554	0.509473	1692.4133	0.045304	85.156
59° 9'	573405.1742	30.940757	4231.7542	0.046382	115.315
	62915.7238	0.510058	1695.1316	0.045403	85.385
59°10'	575261.6196	30.940837	4234.5371	0.046427	115.486
	62946.3273	0.510645	1697.8557	0.045501	85.616
59°11'	577118.0699	30.940917	4237.3227	0.046472	115.658
	62976.9660	0.511232	1700.5858	0.045600	85.847
59°12'	578974.5249	30.940997	4240.1110	0.046518	115.831
	63007.6399	0.511821	1703.3218	0.045699	86.079
59°13'	580830.9847	30.941077	4242.9021	0.046563	116.003
	63038.3492	0.512410	1706.0637	0.045798	86.312
59°14'	582687.4493	30.941157	4245.6959	0.046609	116.176
	63069.0938	0.513000	1708.8116	0.045898	86.546
59°15'	584543.9187	30.941236	4248.4924	0.046654	116.349
	63099.8738	0.513591	1711.5655	0.045997	86.780
59°16'	586400.3929	30.941316	4251.2917	0.046700	116.523
	63130.6892	0.514184	1714.3253	0.046098	87.015
59°17'	588256.8718	30.941396	4254.0937	0.046746	116.697
	63161.5403	0.514777	1717.0912	0.046198	87.251
59°18'	590113.3556	30.941476	4256.8984	0.046791	116.871
	63192.4269	0.515371	1719.8630	0.046299	87.487
59°19'	591969.8441	30.941555	4259.7059	0.046837	117.046
	63223.3491	0.515966	1722.6410	0.046399	87.725
59°20'	593826.3375	30.941635	4262.5161	0.046883	117.221
	63254.3070	0.516562	1725.4249	0.046501	87.963
59°21'	595682.8356	30.941715	4265.3291	0.046929	117.397
	63285.3008	0.517159	1728.2150	0.046602	88.202
59°22'	597539.3385	30.941794	4268.1449	0.046976	117.573
	63316.3303	0.517757	1731.0111	0.046704	88.442
59°23'	599395.8461	30.941874	4270.9634	0.047022	117.749
	63347.3957	0.518356	1733.8133	0.046806	88.682
59°24'	601252.3586	30.941954	4273.7847	0.047068	117.925
	63378.4970	0.518956	1736.6217	0.046908	88.923
59°25'	603108.8758	30.942033	4276.6088	0.047114	118.102
	63409.6344	0.519556	1739.4361	0.047011	89.165
59°26'	604965.3978	30.942113	4279.4357	0.047161	118.280
	63440.8077	0.520158	1742.2568	0.047113	89.408
59°27'	606821.9246	30.942192	4282.2653	0.047207	118.457
	63472.0172	0.520761	1745.0836	0.047217	89.652
59°28'	608678.4561	30.942272	4285.0977	0.047254	118.635
	63503.2629	0.521365	1747.9166	0.047320	89.896
59°29'	610534.9924	30.942351	4287.9330	0.047300	118.814
	63534.5448	0.521970	1750.7558	0.047424	90.141

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0025	-0.0040	-0.0046

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
59°52'	653236.6404	30.944172	4353.9254	0.048395	123.024
	64264.1644	0.536156	1817.8095	0.049889	96.010
59°53'	655093.2908	30.944251	4356.8291	0.048444	123.212
	64296.3338	0.536785	1820.8028	0.049999	96.276
59°54'	656949.9458	30.944330	4359.7358	0.048493	123.400
	64328.5409	0.537415	1823.8028	0.050110	96.542
59°55'	658806.6056	30.944409	4362.6453	0.048541	123.588
	64360.7857	0.538046	1826.8094	0.050222	96.809
59°56'	660663.2701	30.944487	4365.5578	0.048590	123.777
	64393.0685	0.538678	1829.8227	0.050333	97.077
59°57'	662519.9393	30.944566	4368.4732	0.048639	123.967
	64425.3892	0.539311	1832.8427	0.050445	97.346
59°58'	664376.6133	30.944645	4371.3915	0.048688	124.156
	64457.7479	0.539946	1835.8694	0.050558	97.616
59°59'	666233.2920	30.944724	4374.3128	0.048737	124.346
	64490.1446	0.540581	1838.9029	0.050670	97.887
60° 0'	668089.9754	30.944802	4377.2370	0.048786	124.537
	64522.5795	0.541217	1841.9431	0.050783	98.159
60° 1'	669946.6635	30.944881	4380.1642	0.048835	124.728
	64555.0525	0.541855	1844.9901	0.050897	98.431
60° 2'	671803.3564	30.944959	4383.0943	0.048885	124.919
	64587.5638	0.542493	1848.0439	0.051010	98.705
60° 3'	673660.0540	30.945038	4386.0274	0.048934	125.111
	64620.1134	0.543133	1851.1045	0.051124	98.979
60° 4'	675516.7562	30.945117	4388.9634	0.048983	125.303
	64652.7013	0.543773	1854.1720	0.051238	99.254
60° 5'	677373.4632	30.945195	4391.9025	0.049033	125.496
	64685.3277	0.544415	1857.2463	0.051353	99.531
60° 6'	679230.1749	30.945274	4394.8444	0.049083	125.689
	64717.9926	0.545058	1860.3274	0.051467	99.808
60° 7'	681086.8914	30.945352	4397.7894	0.049132	125.883
	64750.6961	0.545701	1863.4155	0.051583	100.086
60° 8'	682943.6125	30.945431	4400.7373	0.049182	126.076
	64783.4381	0.546346	1866.5104	0.051698	100.365
60° 9'	684800.3383	30.945509	4403.6883	0.049232	126.271
	64816.2189	0.546992	1869.6123	0.051814	100.645
60°10'	686657.0689	30.945587	4406.6422	0.049282	126.465
	64849.0384	0.547639	1872.7211	0.051930	100.926
60°11'	688513.8041	30.945666	4409.5991	0.049332	126.661
	64881.8968	0.548287	1875.8369	0.052046	101.208
60°12'	690370.5441	30.945744	4412.5590	0.049382	126.856
	64914.7940	0.548936	1878.9597	0.052163	101.490
60°13'	692227.2887	30.945823	4415.5220	0.049432	127.052
	64947.7302	0.549587	1882.0895	0.052280	101.774

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0027	-0.0043	-0.0049

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
60°14'	694084.0381	30.945901	4418.4879	0.049483	127.249
	64980.7054	0.550238	1885.2263	0.052398	102.059
60°15'	695940.7921	30.945979	4421.4569	0.049533	127.445
	65013.7197	0.550890	1888.3702	0.052515	102.344
60°16'	697797.5509	30.946057	4424.4289	0.049584	127.643
	65046.7731	0.551544	1891.5211	0.052634	102.631
60°17'	699654.3143	30.946136	4427.4039	0.049634	127.840
	65079.8657	0.552198	1894.6791	0.052752	102.919
60°18'	701511.0825	30.946214	4430.3820	0.049685	128.038
	65112.9976	0.552854	1897.8442	0.052871	103.207
60°19'	703367.8553	30.946292	4433.3630	0.049736	128.237
	65146.1689	0.553511	1901.0165	0.052990	103.497
60°20'	705224.6328	30.946370	4436.3472	0.049786	128.436
	65179.3795	0.554169	1904.1959	0.053109	103.787
60°21'	707081.4150	30.946448	4439.3344	0.049837	128.635
	65212.6297	0.554828	1907.3824	0.053229	104.079
60°22'	708938.2019	30.946526	4442.3246	0.049888	128.835
	65245.9193	0.555488	1910.5761	0.053349	104.371
60°23'	710794.9935	30.946604	4445.3179	0.049939	129.035
	65279.2486	0.556149	1913.7771	0.053469	104.665
60°24'	712651.7898	30.946682	4448.3143	0.049991	129.236
	65312.6176	0.556811	1916.9852	0.053590	104.959
60°25'	714508.5907	30.946760	4451.3137	0.050042	129.437
	65346.0262	0.557475	1920.2006	0.053711	105.254
60°26'	716365.3963	30.946838	4454.3162	0.050093	129.639
	65379.4747	0.558139	1923.4233	0.053833	105.551
60°27'	718222.2066	30.946916	4457.3218	0.050145	129.841
	65412.9631	0.558805	1926.6533	0.053954	105.848
60°28'	720079.0216	30.946994	4460.3305	0.050196	130.043
	65446.4914	0.559472	1929.8906	0.054077	106.147
60°29'	721935.8413	30.947072	4463.3423	0.050248	130.246
	65480.0597	0.560140	1933.1351	0.054199	106.446
60°30'	723792.6656	30.947150	4466.3571	0.050300	130.449
	65513.6681	0.560809	1936.3871	0.054322	106.747
60°31'	725649.4946	30.947228	4469.3751	0.050351	130.653
	65547.3166	0.561479	1939.6464	0.054445	107.048
60°32'	727506.3283	30.947306	4472.3962	0.050403	130.857
	65581.0054	0.562150	1942.9131	0.054569	107.351
60°33'	729363.1667	30.947384	4475.4204	0.050455	131.062
	65614.7344	0.562823	1946.1872	0.054692	107.654
60°34'	731220.0097	30.947461	4478.4477	0.050507	131.267
	65648.5038	0.563496	1949.4688	0.054817	107.959
60°35'	733076.8574	30.947539	4481.4781	0.050559	131.473
	65682.3136	0.564171	1952.7578	0.054941	108.264

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0028	-0.0045	-0.0051

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
60°36'	734933.7097	30.947617	4484.5117	0.050612	131.679
	65716.1638	0.564847	1956.0542	0.055066	108.571
60°37'	736790.5667	30.947695	4487.5484	0.050664	131.885
	65750.0546	0.565524	1959.3582	0.055191	108.879
60°38'	738647.4284	30.947772	4490.5882	0.050716	132.092
	65783.9861	0.566202	1962.6697	0.055317	109.187
60°39'	740504.2947	30.947850	4493.6312	0.050769	132.300
	65817.9582	0.566881	1965.9887	0.055443	109.497
60°40'	742361.1657	30.947927	4496.6773	0.050821	132.507
	65851.9711	0.567562	1969.3153	0.055569	109.808
60°41'	744218.0414	30.948005	4499.7266	0.050874	132.716
	65886.0248	0.568243	1972.6494	0.055696	110.120
60°42'	746074.9217	30.948083	4502.7791	0.050927	132.925
	65920.1194	0.568926	1975.9912	0.055823	110.433
60°43'	747931.8066	30.948160	4505.8347	0.050980	133.134
	65954.2549	0.569610	1979.3406	0.055951	110.747
60°44'	749788.6962	30.948238	4508.8935	0.051033	133.343
	65988.4315	0.570295	1982.6976	0.056078	111.062
60°45'	751645.5905	30.948315	4511.9554	0.051086	133.554
	66022.6492	0.570981	1986.0623	0.056206	111.378
60°46'	753502.4894	30.948393	4515.0206	0.051139	133.764
	66056.9081	0.571669	1989.4347	0.056335	111.695
60°47'	755359.3929	30.948470	4518.0889	0.051192	133.975
	66091.2082	0.572357	1992.8148	0.056464	112.014
60°48'	757216.3011	30.948547	4521.1604	0.051245	134.187
	66125.5497	0.573047	1996.2026	0.056593	112.333
60°49'	759073.2140	30.948625	4524.2352	0.051299	134.399
	66159.9325	0.573738	1999.5982	0.056723	112.654
60°50'	760930.1315	30.948702	4527.3131	0.051352	134.611
	66194.3568	0.574430	2003.0016	0.056853	112.975
60°51'	762787.0536	30.948779	4530.3942	0.051406	134.824
	66228.8226	0.575123	2006.4128	0.056983	113.298
60°52'	764643.9803	30.948857	4533.4786	0.051460	135.037
	66263.3300	0.575818	2009.8317	0.057114	113.622
60°53'	766500.9117	30.948934	4536.5662	0.051513	135.251
	66297.8790	0.576513	2013.2586	0.057245	113.947
60°54'	768357.8478	30.949011	4539.6570	0.051567	135.466
	66332.4698	0.577210	2016.6933	0.057376	114.273
60°55'	770214.7884	30.949088	4542.7510	0.051621	135.681
	66367.1025	0.577908	2020.1359	0.057508	114.600
60°56'	772071.7337	30.949165	4545.8483	0.051675	135.896
	66401.7770	0.578608	2023.5864	0.057641	114.929
60°57'	773928.6837	30.949243	4548.9488	0.051730	136.112
	66436.4934	0.579308	2027.0448	0.057773	115.258

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0029	-0.0047	-0.0053

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
60°58'	775785.6382	30.949320	4552.0526	0.051784	136.328
	66471.2519	0.580010	2030.5112	0.057906	115.589
60°59'	777642.5974	30.949397	4555.1596	0.051838	136.545
	66506.0525	0.580712	2033.9856	0.058040	115.920
61° 0'	779499.5612	30.949474	4558.2699	0.051893	136.762
	66540.8952	0.581416	2037.4679	0.058173	116.253
61° 1'	781356.5296	30.949551	4561.3835	0.051947	136.979
	66575.7802	0.582122	2040.9583	0.058308	116.587
61° 2'	783213.5027	30.949628	4564.5003	0.052002	137.198
	66610.7075	0.582828	2044.4568	0.058442	116.922
61° 3'	785070.4804	30.949705	4567.6204	0.052057	137.416
	66645.6772	0.583536	2047.9633	0.058577	117.259
61° 4'	786927.4627	30.949782	4570.7438	0.052111	137.636
	66680.6893	0.584245	2051.4779	0.058712	117.596
61° 5'	788784.4496	30.949859	4573.8705	0.052166	137.855
	66715.7440	0.584955	2055.0007	0.058848	117.935
61° 6'	790641.4411	30.949936	4577.0005	0.052221	138.075
	66750.8413	0.585666	2058.5315	0.058984	118.275
61° 7'	792498.4372	30.950013	4580.1338	0.052276	138.296
	66785.9813	0.586379	2062.0706	0.059121	118.616
61° 8'	794355.4380	30.950089	4583.2703	0.052332	138.517
	66821.1640	0.587092	2065.6178	0.059257	118.958
61° 9'	796212.4434	30.950166	4586.4102	0.052387	138.739
	66856.3895	0.587807	2069.1733	0.059395	119.301
61°10'	798069.4533	30.950243	4589.5535	0.052442	138.961
	66891.6580	0.588524	2072.7370	0.059532	119.646
61°11'	799926.4679	30.950320	4592.7000	0.052498	139.183
	66926.9694	0.589241	2076.3089	0.059671	119.992
61°12'	801783.4871	30.950396	4595.8499	0.052553	139.406
	66962.3239	0.589960	2079.8891	0.059809	120.339
61°13'	803640.5109	30.950473	4599.0031	0.052609	139.630
	66997.7214	0.590680	2083.4777	0.059948	120.687
61°14'	805497.5393	30.950550	4602.1596	0.052665	139.854
	67033.1622	0.591401	2087.0746	0.060087	121.036
61°15'	807354.5722	30.950626	4605.3195	0.052721	140.079
	67068.6463	0.592123	2090.6798	0.060227	121.387
61°16'	809211.6098	30.950703	4608.4828	0.052777	140.304
	67104.1737	0.592847	2094.2934	0.060367	121.739
61°17'	811068.6520	30.950780	4611.6494	0.052833	140.530
	67139.7445	0.593572	2097.9154	0.060507	122.092
61°18'	812925.6988	30.950856	4614.8193	0.052889	140.756
	67175.3589	0.594298	2101.5459	0.060648	122.446
61°19'	814782.7502	30.950933	4617.9927	0.052945	140.982
	67211.0168	0.595026	2105.1848	0.060790	122.802

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0030	-0.0049	-0.0055

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
61°20'	816639.8061	30.951009	4621.1694	0.053002	141.209
	67246.7183	0.595755	2108.8322	0.060931	123.158
61°21'	818496.8667	30.951086	4624.3495	0.053058	141.437
	67282.4636	0.596485	2112.4880	0.061074	123.516
61°22'	820353.9318	30.951162	4627.5330	0.053115	141.665
	67318.2527	0.597216	2116.1524	0.061216	123.876
61°23'	822211.0016	30.951239	4630.7199	0.053171	141.894
	67354.0856	0.597948	2119.8254	0.061359	124.236
61°24'	824068.0759	30.951315	4633.9102	0.053228	142.123
	67389.9625	0.598682	2123.5070	0.061502	124.598
61°25'	825925.1548	30.951391	4637.1039	0.053285	142.353
	67425.8835	0.599417	2127.1971	0.061646	124.961
61°26'	827782.2382	30.951468	4640.3010	0.053342	142.583
	67461.8485	0.600154	2130.8959	0.061790	125.325
61°27'	829639.3263	30.951544	4643.5015	0.053399	142.814
	67497.8577	0.600891	2134.6033	0.061935	125.691
61°28'	831496.4189	30.951620	4646.7055	0.053456	143.045
	67533.9112	0.601630	2138.3194	0.062080	126.058
61°29'	833353.5162	30.951696	4649.9129	0.053514	143.277
	67570.0090	0.602371	2142.0442	0.062226	126.426
61°30'	835210.6179	30.951773	4653.1237	0.053571	143.509
	67606.1513	0.603112	2145.7778	0.062372	126.795
61°31'	837067.7243	30.951849	4656.3379	0.053629	143.742
	67642.3380	0.603855	2149.5201	0.062518	127.166
61°32'	838924.8352	30.951925	4659.5557	0.053686	143.976
	67678.5693	0.604599	2153.2711	0.062665	127.538
61°33'	840781.9507	30.952001	4662.7768	0.053744	144.209
	67714.8452	0.605344	2157.0310	0.062812	127.911
61°34'	842639.0708	30.952077	4666.0015	0.053802	144.444
	67751.1659	0.606091	2160.7997	0.062960	128.286
61°35'	844496.1954	30.952153	4669.2296	0.053860	144.679
	67787.5313	0.606839	2164.5773	0.063108	128.662
61°36'	846353.3246	30.952229	4672.4611	0.053918	144.914
	67823.9417	0.607589	2168.3638	0.063256	129.039
61°37'	848210.4584	30.952305	4675.6962	0.053976	145.150
	67860.3970	0.608339	2172.1592	0.063405	129.418
61°38'	850067.5967	30.952381	4678.9347	0.054034	145.387
	67896.8974	0.609091	2175.9635	0.063554	129.798
61°39'	851924.7396	30.952457	4682.1768	0.054092	145.624
	67933.4428	0.609844	2179.7767	0.063704	130.179
61°40'	853781.8871	30.952533	4685.4223	0.054151	145.862
	67970.0335	0.610599	2183.5990	0.063855	130.562
61°41'	855639.0391	30.952609	4688.6713	0.054209	146.100
	68006.6694	0.611355	2187.4303	0.064005	130.946

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0032	-0.0051	-0.0057

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
61°42'	857496.1956	30.952685	4691.9239	0.054268	146.339
	68043.3507	0.612112	2191.2706	0.064156	131.331
61°43'	859353.3567	30.952761	4695.1799	0.054326	146.578
	68080.0775	0.612871	2195.1200	0.064308	131.718
61°44'	861210.5224	30.952837	4698.4395	0.054385	146.818
	68116.8497	0.613631	2198.9784	0.064460	132.106
61°45'	863067.6926	30.952913	4701.7026	0.054444	147.058
	68153.6676	0.614392	2202.8460	0.064613	132.496
61°46'	864924.8673	30.952988	4704.9693	0.054503	147.299
	68190.5311	0.615155	2206.7228	0.064765	132.887
61°47'	866782.0466	30.953064	4708.2395	0.054562	147.541
	68227.4404	0.615919	2210.6087	0.064919	133.279
61°48'	868639.2305	30.953140	4711.5132	0.054622	147.783
	68264.3955	0.616684	2214.5038	0.065073	133.673
61°49'	870496.4188	30.953215	4714.7905	0.054681	148.025
	68301.3966	0.617451	2218.4082	0.065227	134.068
61°50'	872353.6118	30.953291	4718.0714	0.054740	148.269
	68338.4436	0.618219	2222.3218	0.065382	134.464
61°51'	874210.8092	30.953367	4721.3558	0.054800	148.512
	68375.5368	0.618988	2226.2447	0.065537	134.862
61°52'	876068.0112	30.953442	4724.6438	0.054860	148.757
	68412.6760	0.619759	2230.1770	0.065693	135.261
61°53'	877925.2177	30.953518	4727.9354	0.054920	149.001
	68449.8616	0.620531	2234.1185	0.065849	135.662
61°54'	879782.4288	30.953593	4731.2306	0.054979	149.247
	68487.0934	0.621305	2238.0694	0.066005	136.064
61°55'	881639.6444	30.953669	4734.5293	0.055039	149.493
	68524.3717	0.622079	2242.0298	0.066162	136.468
61°56'	883496.8645	30.953744	4737.8317	0.055100	149.739
	68561.6965	0.622856	2245.9995	0.066320	136.873
61°57'	885354.0892	30.953820	4741.1377	0.055160	149.986
	68599.0678	0.623633	2249.9787	0.066478	137.279
61°58'	887211.3184	30.953895	4744.4473	0.055220	150.234
	68636.4858	0.624412	2253.9674	0.066636	137.687
61°59'	889068.5521	30.953970	4747.7605	0.055280	150.482
	68673.9505	0.625193	2257.9656	0.066795	138.096
62° 0'	890925.7903	30.954046	4751.0773	0.055341	150.731
	68711.4621	0.625974	2261.9733	0.066955	138.507
62° 1'	892783.0331	30.954121	4754.3977	0.055402	150.981
	68749.0205	0.626757	2265.9906	0.067115	138.919
62° 2'	894640.2803	30.954196	4757.7218	0.055462	151.231
	68786.6260	0.627542	2270.0175	0.067275	139.333
62° 3'	896497.5321	30.954272	4761.0496	0.055523	151.481
	68824.2785	0.628328	2274.0540	0.067436	139.748

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0033	-0.0053	-0.0059

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
62° 4'	898354.7884	30.954347	4764.3810	0.055584	151.732
	68861.9782	0.629115	2278.1001	0.067597	140.165
62° 5'	900212.0492	30.954422	4767.7160	0.055645	151.984
	68899.7251	0.629904	2282.1560	0.067759	140.583
62° 6'	902069.3146	30.954497	4771.0548	0.055707	152.236
	68937.5193	0.630694	2286.2215	0.067921	141.003
62° 7'	903926.5844	30.954572	4774.3972	0.055768	152.489
	68975.3610	0.631486	2290.2968	0.068084	141.424
62° 8'	905783.8588	30.954648	4777.7432	0.055829	152.743
	69013.2501	0.632279	2294.3818	0.068247	141.847
62° 9'	907641.1376	30.954723	4781.0930	0.055891	152.997
	69051.1868	0.633073	2298.4767	0.068411	142.271
62°10'	909498.4210	30.954798	4784.4464	0.055952	153.251
	69089.1712	0.633869	2302.5813	0.068575	142.697
62°11'	911355.7088	30.954873	4787.8036	0.056014	153.506
	69127.2034	0.634666	2306.6959	0.068740	143.124
62°12'	913213.0012	30.954948	4791.1644	0.056076	153.762
	69165.2833	0.635465	2310.8203	0.068905	143.553
62°13'	915070.2981	30.955023	4794.5290	0.056138	154.019
	69203.4112	0.636265	2314.9546	0.069071	143.983
62°14'	916927.5994	30.955098	4797.8973	0.056200	154.276
	69241.5871	0.637066	2319.0988	0.069237	144.415
62°15'	918784.9053	30.955173	4801.2693	0.056262	154.533
	69279.8111	0.637869	2323.2531	0.069404	144.849
62°16'	920642.2157	30.955247	4804.6450	0.056325	154.792
	69318.0833	0.638674	2327.4173	0.069571	145.284
62°17'	922499.5305	30.955322	4808.0245	0.056387	155.050
	69356.4037	0.639480	2331.5916	0.069739	145.720
62°18'	924356.8498	30.955397	4811.4077	0.056450	155.310
	69394.7725	0.640287	2335.7759	0.069907	146.159
62°19'	926214.1737	30.955472	4814.7947	0.056512	155.570
	69433.1897	0.641096	2339.9704	0.070076	146.598
62°20'	928071.5020	30.955547	4818.1855	0.056575	155.830
	69471.6554	0.641906	2344.1749	0.070245	147.040
62°21'	929928.8348	30.955621	4821.5800	0.056638	156.092
	69510.1698	0.642718	2348.3896	0.070415	147.483
62°22'	931786.1721	30.955696	4824.9782	0.056701	156.354
	69548.7329	0.643531	2352.6145	0.070585	147.927
62°23'	933643.5138	30.955771	4828.3803	0.056764	156.616
	69587.3447	0.644345	2356.8497	0.070756	148.373
62°24'	935500.8601	30.955845	4831.7861	0.056827	156.879
	69626.0054	0.645161	2361.0950	0.070927	148.821
62°25'	937358.2108	30.955920	4835.1958	0.056891	157.143
	69664.7151	0.645979	2365.3507	0.071099	149.271

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0034	-0.0055	-0.0062

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
62°26'	939215.5660	30.955995	4838.6092	0.056954	157.407
	69703.4738	0.646798	2369.6166	0.071271	149.722
62°27'	941072.9257	30.956069	4842.0265	0.057018	157.672
	69742.2817	0.647619	2373.8929	0.071444	150.174
62°28'	942930.2898	30.956144	4845.4475	0.057081	157.938
	69781.1388	0.648440	2378.1795	0.071618	150.629
62°29'	944787.6585	30.956218	4848.8724	0.057145	158.204
	69820.0453	0.649264	2382.4766	0.071792	151.085
62°30'	946645.0316	30.956293	4852.3011	0.057209	158.471
	69859.0011	0.650089	2386.7841	0.071966	151.542
62°31'	948502.4091	30.956367	4855.7337	0.057273	158.738
	69898.0064	0.650915	2391.1021	0.072141	152.002
62°32'	950359.7911	30.956441	4859.1701	0.057337	159.006
	69937.0614	0.651743	2395.4305	0.072317	152.463
62°33'	952217.1776	30.956516	4862.6103	0.057402	159.275
	69976.1660	0.652573	2399.7695	0.072493	152.925
62°34'	954074.5686	30.956590	4866.0544	0.057466	159.544
	70015.3203	0.653404	2404.1191	0.072669	153.390
62°35'	955931.9640	30.956665	4869.5024	0.057531	159.814
	70054.5246	0.654236	2408.4792	0.072846	153.856
62°36'	957789.3639	30.956739	4872.9542	0.057595	160.085
	70093.7787	0.655070	2412.8500	0.073024	154.324
62°37'	959646.7682	30.956813	4876.4099	0.057660	160.356
	70133.0829	0.655906	2417.2314	0.073202	154.793
62°38'	961504.1770	30.956887	4879.8695	0.057725	160.628
	70172.4373	0.656743	2421.6236	0.073381	155.264
62°39'	963361.5902	30.956961	4883.3330	0.057790	160.901
	70211.8419	0.657581	2426.0264	0.073560	155.737
62°40'	965219.0079	30.957036	4886.8004	0.057855	161.174
	70251.2967	0.658421	2430.4400	0.073740	156.212
62°41'	967076.4300	30.957110	4890.2717	0.057920	161.448
	70290.8020	0.659263	2434.8644	0.073920	156.688
62°42'	968933.8566	30.957184	4893.7469	0.057985	161.722
	70330.3578	0.660106	2439.2996	0.074101	157.166
62°43'	970791.2877	30.957258	4897.2260	0.058051	161.997
	70369.9642	0.660951	2443.7457	0.074283	157.646
62°44'	972648.7231	30.957332	4900.7091	0.058117	162.273
	70409.6212	0.661797	2448.2027	0.074465	158.128
62°45'	974506.1631	30.957406	4904.1961	0.058182	162.550
	70449.3291	0.662645	2452.6705	0.074647	158.611
62°46'	976363.6074	30.957480	4907.6870	0.058248	162.827
	70489.0877	0.663494	2457.1494	0.074830	159.096
62°47'	978221.0562	30.957554	4911.1819	0.058314	163.105
	70528.8974	0.664345	2461.6392	0.075014	159.583

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0036	-0.0057	-0.0064

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
62°48'	980078.5094	30.957628	4914.6807	0.058380	163.383
	70568.7581	0.665198	2466.1401	0.075198	160.072
62°49'	981935.9671	30.957702	4918.1835	0.058446	163.662
	70608.6700	0.666052	2470.6520	0.075383	160.563
62°50'	983793.4292	30.957776	4921.6903	0.058513	163.942
	70648.6330	0.666907	2475.1750	0.075569	161.055
62°51'	985650.8957	30.957849	4925.2011	0.058579	164.222
	70688.6475	0.667764	2479.7091	0.075755	161.549
62°52'	987508.3667	30.957923	4928.7158	0.058646	164.503
	70728.7133	0.668623	2484.2543	0.075941	162.045
62°53'	989365.8421	30.957997	4932.2346	0.058712	164.785
	70768.8307	0.669483	2488.8108	0.076128	162.543
62°54'	991223.3219	30.958071	4935.7573	0.058779	165.068
	70808.9997	0.670345	2493.3785	0.076316	163.043
62°55'	993080.8062	30.958144	4939.2841	0.058846	165.351
	70849.2204	0.671209	2497.9575	0.076504	163.544
62°56'	994938.2948	30.958218	4942.8148	0.058913	165.634
	70889.4929	0.672074	2502.5477	0.076693	164.047
62°57'	996795.7879	30.958292	4946.3496	0.058980	165.919
	70929.8173	0.672940	2507.1493	0.076883	164.553
62°58'	998653.2854	30.958365	4949.8884	0.059048	166.204
	70970.1937	0.673808	2511.7623	0.077073	165.060
62°59'	1000510.7873	30.958439	4953.4313	0.059115	166.490
	71010.6223	0.674678	2516.3866	0.077263	165.569
63° 0'	1002368.2937	30.958512	4956.9782	0.059183	166.776
	71051.1030	0.675550	2521.0224	0.077454	166.080
63° 1'	1004225.8044	30.958586	4960.5292	0.059250	167.064
	71091.6359	0.676423	2525.6697	0.077646	166.592
63° 2'	1006083.3196	30.958659	4964.0842	0.059318	167.352
	71132.2213	0.677297	2530.3284	0.077839	167.107
63° 3'	1007940.8391	30.958733	4967.6433	0.059386	167.640
	71172.8592	0.678174	2534.9987	0.078031	167.624
63° 4'	1009798.3631	30.958806	4971.2065	0.059454	167.930
	71213.5496	0.679052	2539.6806	0.078225	168.142
63° 5'	1011655.8915	30.958880	4974.7737	0.059522	168.219
	71254.2927	0.679931	2544.3741	0.078419	168.662
63° 6'	1013513.4243	30.958953	4978.3451	0.059591	168.510
	71295.0886	0.680812	2549.0793	0.078614	169.185
63° 7'	1015370.9614	30.959026	4981.9205	0.059659	168.802
	71335.9373	0.681695	2553.7961	0.078809	169.709
63° 8'	1017228.5030	30.959100	4985.5001	0.059728	169.094
	71376.8390	0.682580	2558.5247	0.079005	170.235
63° 9'	1019086.0490	30.959173	4989.0838	0.059797	169.386
	71417.7938	0.683466	2563.2650	0.079202	170.764

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0037	-0.0059	-0.0067

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
63°10'	1020943.5994	30.959246	4992.6716	0.059865	169.680
	71458.8017	0.684353	2568.0171	0.079399	171.294
63°11'	1022801.1542	30.959319	4996.2635	0.059934	169.974
	71499.8629	0.685243	2572.7811	0.079597	171.826
63°12'	1024658.7133	30.959393	4999.8595	0.060004	170.269
	71540.9775	0.686134	2577.5569	0.079795	172.360
63°13'	1026516.2769	30.959466	5003.4598	0.060073	170.565
	71582.1455	0.687026	2582.3446	0.079994	172.896
63°14'	1028373.8448	30.959539	5007.0641	0.060142	170.861
	71623.3671	0.687921	2587.1443	0.080194	173.434
63°15'	1030231.4172	30.959612	5010.6726	0.060212	171.158
	71664.6423	0.688817	2591.9559	0.080394	173.974
63°16'	1032088.9939	30.959685	5014.2853	0.060281	171.456
	71705.9713	0.689714	2596.7796	0.080595	174.517
63°17'	1033946.5750	30.959758	5017.9022	0.060351	171.755
	71747.3542	0.690614	2601.6153	0.080797	175.061
63°18'	1035804.1605	30.959831	5021.5233	0.060421	172.054
	71788.7910	0.691515	2606.4631	0.080999	175.607
63°19'	1037661.7503	30.959904	5025.1485	0.060491	172.354
	71830.2819	0.692417	2611.3231	0.081202	176.155
63°20'	1039519.3446	30.959977	5028.7780	0.060561	172.654
	71871.8270	0.693322	2616.1952	0.081405	176.706
63°21'	1041376.9432	30.960050	5032.4116	0.060631	172.956
	71913.4263	0.694228	2621.0795	0.081609	177.258
63°22'	1043234.5462	30.960123	5036.0495	0.060702	173.258
	71955.0799	0.695136	2625.9761	0.081814	177.813
63°23'	1045092.1535	30.960196	5039.6916	0.060772	173.561
	71996.7881	0.696045	2630.8849	0.082019	178.369
63°24'	1046949.7653	30.960268	5043.3380	0.060843	173.865
	72038.5508	0.696956	2635.8061	0.082225	178.928
63°25'	1048807.3814	30.960341	5046.9885	0.060914	174.169
	72080.3682	0.697869	2640.7396	0.082432	179.489
63°26'	1050665.0018	30.960414	5050.6434	0.060985	174.474
	72122.2403	0.698784	2645.6856	0.082639	180.052
63°27'	1052522.6266	30.960487	5054.3025	0.061056	174.780
	72164.1674	0.699700	2650.6439	0.082847	180.617
63°28'	1054380.2558	30.960559	5057.9658	0.061127	175.087
	72206.1494	0.700618	2655.6148	0.083056	181.184
63°29'	1056237.8894	30.960632	5061.6334	0.061198	175.394
	72248.1865	0.701538	2660.5981	0.083265	181.753
63°30'	1058095.5273	30.960704	5065.3053	0.061270	175.702
	72290.2788	0.702460	2665.5940	0.083475	182.324
63°31'	1059953.1696	30.960777	5068.9815	0.061342	176.011
	72332.4263	0.703383	2670.6025	0.083686	182.898

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0039	-0.0062	-0.0070

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
63°32'	1061810.8162	30.960850	5072.6620	0.061413	176.321
	72374.6293	0.704308	2675.6237	0.083897	183.474
63°33'	1063668.4672	30.960922	5076.3468	0.061485	176.631
	72416.8878	0.705234	2680.6575	0.084109	184.052
63°34'	1065526.1225	30.960995	5080.0359	0.061557	176.942
	72459.2018	0.706163	2685.7040	0.084321	184.632
63°35'	1067383.7822	30.961067	5083.7294	0.061629	177.254
	72501.5716	0.707093	2690.7633	0.084535	185.214
63°36'	1069241.4462	30.961139	5087.4271	0.061702	177.567
	72543.9972	0.708025	2695.8354	0.084749	185.799
63°37'	1071099.1146	30.961212	5091.1292	0.061774	177.880
	72586.4787	0.708959	2700.9203	0.084963	186.385
63°38'	1072956.7873	30.961284	5094.8357	0.061847	178.195
	72629.0162	0.709894	2706.0181	0.085179	186.974
63°39'	1074814.4643	30.961357	5098.5465	0.061919	178.510
	72671.6099	0.710832	2711.1288	0.085394	187.566
63°40'	1076672.1457	30.961429	5102.2616	0.061992	178.825
	72714.2598	0.711771	2716.2525	0.085611	188.159
63°41'	1078529.8315	30.961501	5105.9812	0.062065	179.142
	72756.9660	0.712711	2721.3892	0.085828	188.755
63°42'	1080387.5215	30.961573	5109.7051	0.062138	179.459
	72799.7287	0.713654	2726.5389	0.086046	189.353
63°43'	1082245.2159	30.961646	5113.4334	0.062212	179.777
	72842.5479	0.714598	2731.7017	0.086265	189.953
63°44'	1084102.9147	30.961718	5117.1661	0.062285	180.096
	72885.4238	0.715545	2736.8776	0.086485	190.555
63°45'	1085960.6177	30.961790	5120.9032	0.062359	180.416
	72928.3565	0.716493	2742.0667	0.086705	191.160
63°46'	1087818.3251	30.961862	5124.6448	0.062432	180.737
	72971.3461	0.717442	2747.2689	0.086926	191.767
63°47'	1089676.0368	30.961934	5128.3907	0.062506	181.058
	73014.3926	0.718394	2752.4845	0.087147	192.377
63°48'	1091533.7529	30.962006	5132.1411	0.062580	181.380
	73057.4962	0.719347	2757.7133	0.087369	192.989
63°49'	1093391.4733	30.962078	5135.8959	0.062654	181.703
	73100.6571	0.720303	2762.9555	0.087592	193.603
63°50'	1095249.1979	30.962150	5139.6552	0.062729	182.027
	73143.8752	0.721260	2768.2110	0.087816	194.219
63°51'	1097106.9269	30.962222	5143.4189	0.062803	182.351
	73187.1508	0.722218	2773.4799	0.088040	194.838
63°52'	1098964.6603	30.962294	5147.1871	0.062878	182.676
	73230.4839	0.723179	2778.7623	0.088265	195.459
63°53'	1100822.3979	30.962366	5150.9597	0.062952	183.002
	73273.8746	0.724142	2784.0582	0.088491	196.083

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0040	-0.0064	-0.0072

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
63°54'	1102680.1399	30.962438	5154.7369	0.063027	183.329
	73317.3231	0.725106	2789.3677	0.088717	196.709
63°55'	1104537.8861	30.962510	5158.5185	0.063102	183.657
	73360.8295	0.726072	2794.6908	0.088945	197.337
63°56'	1106395.6367	30.962581	5162.3047	0.063177	183.986
	73404.3938	0.727040	2800.0274	0.089173	197.968
63°57'	1108253.3916	30.962653	5166.0953	0.063253	184.315
	73448.0162	0.728010	2805.3778	0.089401	198.601
63°58'	1110111.1507	30.962725	5169.8905	0.063328	184.645
	73491.6968	0.728982	2810.7419	0.089631	199.237
63°59'	1111968.9142	30.962796	5173.6901	0.063404	184.976
	73535.4357	0.729955	2816.1197	0.089861	199.875
64° 0'	1113826.6820	30.962868	5177.4944	0.063479	185.308
	73579.2331	0.730931	2821.5114	0.090092	200.515
64° 1'	1115684.4541	30.962940	5181.3031	0.063555	185.641
	73623.0889	0.731908	2826.9169	0.090323	201.158
64° 2'	1117542.2305	30.963011	5185.1164	0.063631	185.974
	73667.0034	0.732887	2832.3363	0.090556	201.804
64° 3'	1119400.0112	30.963083	5188.9343	0.063707	186.309
	73710.9767	0.733869	2837.7696	0.090789	202.452
64° 4'	1121257.7961	30.963154	5192.7568	0.063784	186.644
	73755.0088	0.734852	2843.2170	0.091023	203.102
64° 5'	1123115.5854	30.963226	5196.5838	0.063860	186.980
	73799.0999	0.735836	2848.6783	0.091257	203.755
64° 6'	1124973.3790	30.963297	5200.4154	0.063937	187.317
	73843.2501	0.736823	2854.1538	0.091493	204.411
64° 7'	1126831.1768	30.963369	5204.2516	0.064014	187.654
	73887.4595	0.737812	2859.6433	0.091729	205.069
64° 8'	1128688.9789	30.963440	5208.0924	0.064090	187.993
	73931.7282	0.738803	2865.1471	0.091966	205.730
64° 9'	1130546.7853	30.963512	5211.9378	0.064168	188.332
	73976.0563	0.739795	2870.6650	0.092203	206.393
64°10'	1132404.5960	30.963583	5215.7879	0.064245	188.673
	74020.4440	0.740789	2876.1972	0.092442	207.058
64°11'	1134262.4110	30.963654	5219.6426	0.064322	189.014
	74064.8914	0.741786	2881.7437	0.092681	207.727
64°12'	1136120.2303	30.963725	5223.5019	0.064400	189.356
	74109.3986	0.742784	2887.3046	0.092921	208.398
64°13'	1137978.0538	30.963797	5227.3659	0.064477	189.699
	74153.9656	0.743784	2892.8799	0.093162	209.071
64°14'	1139835.8816	30.963868	5231.2345	0.064555	190.042
	74198.5927	0.744786	2898.4696	0.093403	209.747
64°15'	1141693.7137	30.963939	5235.1078	0.064633	190.387
	74243.2798	0.745790	2904.0738	0.093646	210.426

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0042	-0.0067	-0.0076

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
64°16'	1143551.5500	30.964010	5238.9858	0.064711	190.732
	74288.0273	0.746796	2909.6925	0.093889	211.107
64°17'	1145409.3906	30.964081	5242.8684	0.064789	191.079
	74332.8351	0.747804	2915.3259	0.094133	211.791
64°18'	1147267.2355	30.964152	5246.7558	0.064868	191.426
	74377.7033	0.748814	2920.9738	0.094377	212.478
64°19'	1149125.0846	30.964223	5250.6479	0.064946	191.774
	74422.6322	0.749826	2926.6365	0.094623	213.167
64°20'	1150982.9380	30.964294	5254.5447	0.065025	192.123
	74467.6218	0.750840	2932.3138	0.094869	213.859
64°21'	1152840.7957	30.964365	5258.4462	0.065104	192.473
	74512.6722	0.751856	2938.0060	0.095116	214.554
64°22'	1154698.6576	30.964436	5262.3524	0.065183	192.823
	74557.7835	0.752874	2943.7129	0.095364	215.252
64°23'	1156556.5238	30.964507	5266.2634	0.065262	193.175
	74602.9559	0.753893	2949.4348	0.095613	215.952
64°24'	1158414.3943	30.964578	5270.1791	0.065342	193.527
	74648.1895	0.754915	2955.1716	0.095862	216.655
64°25'	1160272.2689	30.964649	5274.0996	0.065421	193.881
	74693.4845	0.755939	2960.9233	0.096113	217.360
64°26'	1162130.1479	30.964720	5278.0249	0.065501	194.235
	74738.8408	0.756965	2966.6900	0.096364	218.069
64°27'	1163988.0311	30.964791	5281.9549	0.065580	194.590
	74784.2587	0.757992	2972.4719	0.096616	218.780
64°28'	1165845.9185	30.964861	5285.8897	0.065660	194.946
	74829.7382	0.759022	2978.2688	0.096868	219.494
64°29'	1167703.8102	30.964932	5289.8294	0.065741	195.304
	74875.2796	0.760054	2984.0809	0.097122	220.211
64°30'	1169561.7061	30.965003	5293.7738	0.065821	195.661
	74920.8828	0.761088	2989.9082	0.097376	220.930
64°31'	1171419.6063	30.965073	5297.7230	0.065901	196.020
	74966.5481	0.762124	2995.7508	0.097632	221.653
64°32'	1173277.5107	30.965144	5301.6771	0.065982	196.380
	75012.2755	0.763161	3001.6087	0.097888	222.378
64°33'	1175135.4193	30.965215	5305.6360	0.066063	196.741
	75058.0652	0.764201	3007.4820	0.098145	223.106
64°34'	1176993.3322	30.965285	5309.5998	0.066144	197.102
	75103.9173	0.765243	3013.3706	0.098402	223.837
64°35'	1178851.2493	30.965356	5313.5684	0.066225	197.465
	75149.8318	0.766287	3019.2748	0.098661	224.571
64°36'	1180709.1706	30.965426	5317.5419	0.066306	197.828
	75195.8091	0.767333	3025.1945	0.098921	225.308
64°37'	1182567.0962	30.965496	5321.5203	0.066387	198.193
	75241.8491	0.768381	3031.1297	0.099181	226.048

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0044	-0.0070	-0.0079

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
64°38'	1184425.0259	30.965567	5325.5035	0.066469	198.558
	75287.9519	0.769431	3037.0805	0.099442	226.790
64°39'	1186282.9600	30.965637	5329.4916	0.066551	198.924
	75334.1178	0.770484	3043.0471	0.099704	227.536
64°40'	1188140.8982	30.965708	5333.4847	0.066633	199.292
	75380.3468	0.771538	3049.0293	0.099967	228.284
64°41'	1189998.8407	30.965778	5337.4826	0.066715	199.660
	75426.6391	0.772594	3055.0273	0.100231	229.036
64°42'	1191856.7873	30.965848	5341.4855	0.066797	200.029
	75472.9948	0.773653	3061.0412	0.100495	229.790
64°43'	1193714.7382	30.965918	5345.4933	0.066879	200.399
	75519.4139	0.774713	3067.0709	0.100761	230.547
64°44'	1195572.6933	30.965989	5349.5060	0.066962	200.770
	75565.8967	0.775776	3073.1165	0.101027	231.308
64°45'	1197430.6526	30.966059	5353.5238	0.067044	201.142
	75612.4432	0.776840	3079.1782	0.101295	232.071
64°46'	1199288.6162	30.966129	5357.5464	0.067127	201.515
	75659.0537	0.777907	3085.2559	0.101563	232.837
64°47'	1201146.5839	30.966199	5361.5741	0.067210	201.889
	75705.7281	0.778976	3091.3496	0.101832	233.607
64°48'	1203004.5559	30.966269	5365.6067	0.067294	202.263
	75752.4667	0.780047	3097.4595	0.102102	234.379
64°49'	1204862.5320	30.966339	5369.6443	0.067377	202.639
	75799.2695	0.781120	3103.5856	0.102372	235.155
64°50'	1206720.5124	30.966409	5373.6869	0.067460	203.016
	75846.1367	0.782196	3109.7280	0.102644	235.934
64°51'	1208578.4969	30.966479	5377.7345	0.067544	203.394
	75893.0684	0.783273	3115.8866	0.102917	236.715
64°52'	1210436.4857	30.966549	5381.7872	0.067628	203.772
	75940.0648	0.784353	3122.0616	0.103190	237.500
64°53'	1212294.4786	30.966619	5385.8449	0.067712	204.152
	75987.1260	0.785434	3128.2531	0.103465	238.288
64°54'	1214152.4758	30.966689	5389.9076	0.067796	204.533
	76034.2520	0.786518	3134.4609	0.103740	239.079
64°55'	1216010.4771	30.966759	5393.9753	0.067881	204.915
	76081.4431	0.787604	3140.6854	0.104016	239.874
64°56'	1217868.4826	30.966829	5398.0482	0.067965	205.297
	76128.6993	0.788692	3146.9263	0.104294	240.671
64°57'	1219726.4923	30.966898	5402.1261	0.068050	205.681
	76176.0209	0.789783	3153.1840	0.104572	241.472
64°58'	1221584.5062	30.966968	5406.2091	0.068135	206.066
	76223.4078	0.790875	3159.4583	0.104851	242.276
64°59'	1223442.5243	30.967038	5410.2972	0.068220	206.451
	76270.8603	0.791970	3165.7493	0.105131	243.083

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0046	-0.0073	-0.0082

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
65° 0'	1225300.5466	30.967107	5414.3904	0.068305	206.838
	76318.3785	0.793067	3172.0571	0.105412	243.893
65° 1'	1227158.5731	30.967177	5418.4887	0.068390	207.226
	76365.9625	0.794166	3178.3818	0.105693	244.707
65° 2'	1229016.6037	30.967247	5422.5921	0.068476	207.614
	76413.6124	0.795267	3184.7234	0.105976	245.524
65° 3'	1230874.6385	30.967316	5426.7007	0.068562	208.004
	76461.3285	0.796370	3191.0820	0.106260	246.344
65° 4'	1232732.6775	30.967386	5430.8144	0.068648	208.395
	76509.1107	0.797476	3197.4576	0.106545	247.167
65° 5'	1234590.7206	30.967455	5434.9332	0.068734	208.787
	76556.9592	0.798584	3203.8503	0.106830	247.994
65° 6'	1236448.7679	30.967525	5439.0572	0.068820	209.179
	76604.8743	0.799694	3210.2601	0.107117	248.824
65° 7'	1238306.8194	30.967594	5443.1864	0.068906	209.573
	76652.8559	0.800806	3216.6871	0.107404	249.657
65° 8'	1240164.8751	30.967664	5447.3208	0.068993	209.968
	76700.9043	0.801921	3223.1314	0.107693	250.494
65° 9'	1242022.9349	30.967733	5451.4604	0.069080	210.364
	76749.0195	0.803038	3229.5929	0.107982	251.334
65°10'	1243880.9989	30.967802	5455.6052	0.069167	210.761
	76797.2018	0.804157	3236.0719	0.108273	252.177
65°11'	1245739.0670	30.967872	5459.7552	0.069254	211.159
	76845.4512	0.805278	3242.5682	0.108564	253.024
65°12'	1247597.1393	30.967941	5463.9104	0.069341	211.558
	76893.7678	0.806401	3249.0821	0.108857	253.874
65°13'	1249455.2158	30.968010	5468.0709	0.069429	211.958
	76942.1519	0.807527	3255.6135	0.109150	254.728
65°14'	1251313.2964	30.968079	5472.2366	0.069516	212.359
	76990.6035	0.808655	3262.1625	0.109444	255.585
65°15'	1253171.3812	30.968149	5476.4076	0.069604	212.761
	77039.1228	0.809786	3268.7292	0.109740	256.446
65°16'	1255029.4701	30.968218	5480.5839	0.069692	213.164
	77087.7100	0.810918	3275.3135	0.110036	257.310
65°17'	1256887.5631	30.968287	5484.7654	0.069780	213.569
	77136.3651	0.812053	3281.9157	0.110333	258.178
65°18'	1258745.6603	30.968356	5488.9522	0.069869	213.974
	77185.0882	0.813190	3288.5357	0.110632	259.049
65°19'	1260603.7617	30.968425	5493.1444	0.069957	214.380
	77233.8797	0.814330	3295.1736	0.110931	259.923
65°20'	1262461.8672	30.968494	5497.3418	0.070046	214.788
	77282.7394	0.815472	3301.8295	0.111232	260.802
65°21'	1264319.9768	30.968563	5501.5446	0.070135	215.196
	77331.6677	0.816616	3308.5034	0.111533	261.683

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0048	-0.0077	-0.0086

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
65°22'	1266178.0906	30.968632	5505.7527	0.070224	215.606
	77380.6647	0.817762	3315.1954	0.111835	262.569
65°23'	1268036.2085	30.968701	5509.9661	0.070313	216.017
	77429.7304	0.818911	3321.9055	0.112139	263.458
65°24'	1269894.3305	30.968770	5514.1850	0.070403	216.429
	77478.8650	0.820062	3328.6339	0.112443	264.350
65°25'	1271752.4567	30.968838	5518.4091	0.070493	216.841
	77528.0688	0.821215	3335.3805	0.112749	265.246
65°26'	1273610.5870	30.968907	5522.6387	0.070582	217.255
	77577.3417	0.822371	3342.1454	0.113055	266.146
65°27'	1275468.7214	30.968976	5526.8736	0.070672	217.671
	77626.6839	0.823529	3348.9287	0.113363	267.050
65°28'	1277326.8600	30.969045	5531.1140	0.070763	218.087
	77676.0957	0.824690	3355.7305	0.113672	267.957
65°29'	1279185.0027	30.969113	5535.3597	0.070853	218.504
	77725.5771	0.825852	3362.5508	0.113981	268.868
65°30'	1281043.1495	30.969182	5539.6109	0.070944	218.923
	77775.1282	0.827018	3369.3897	0.114292	269.783
65°31'	1282901.3004	30.969251	5543.8675	0.071034	219.342
	77824.7493	0.828185	3376.2472	0.114604	270.701
65°32'	1284759.4554	30.969319	5548.1296	0.071125	219.763
	77874.4404	0.829355	3383.1235	0.114917	271.623
65°33'	1286617.6146	30.969388	5552.3971	0.071216	220.185
	77924.2017	0.830527	3390.0185	0.115231	272.549
65°34'	1288475.7778	30.969456	5556.6701	0.071308	220.607
	77974.0333	0.831702	3396.9323	0.115546	273.479
65°35'	1290333.9452	30.969525	5560.9486	0.071399	221.031
	78023.9355	0.832879	3403.8651	0.115862	274.412
65°36'	1292192.1167	30.969593	5565.2325	0.071491	221.457
	78073.9082	0.834059	3410.8168	0.116179	275.349
65°37'	1294050.2923	30.969662	5569.5220	0.071583	221.883
	78123.9517	0.835241	3417.7875	0.116497	276.291
65°38'	1295908.4720	30.969730	5573.8170	0.071675	222.310
	78174.0662	0.836425	3424.7774	0.116817	277.236
65°39'	1297766.6557	30.969798	5578.1175	0.071767	222.739
	78224.2517	0.837612	3431.7864	0.117137	278.185
65°40'	1299624.8436	30.969867	5582.4235	0.071860	223.169
	78274.5084	0.838801	3438.8146	0.117459	279.137
65°41'	1301483.0356	30.969935	5586.7351	0.071952	223.600
	78324.8365	0.839993	3445.8621	0.117781	280.094
65°42'	1303341.2317	30.970003	5591.0522	0.072045	224.032
	78375.2361	0.841187	3452.9290	0.118105	281.055
65°43'	1305199.4319	30.970071	5595.3749	0.072138	224.465
	78425.7073	0.842384	3460.0153	0.118430	282.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(IX)	0.0000	-0.0050	-0.0080	-0.0090

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
65°44'	1307057.6362	30.970139	5599.7032	0.072231	224.899
	78476.2503	0.843583	3467.1211	0.118756	282.988
65°45'	1308915.8445	30.970208	5604.0371	0.072325	225.335
	78526.8652	0.844784	3474.2464	0.119083	283.961
65°46'	1310774.0570	30.970276	5608.3766	0.072418	225.772
	78577.5523	0.845988	3481.3914	0.119411	284.937
65°47'	1312632.2735	30.970344	5612.7217	0.072512	226.209
	78628.3116	0.847194	3488.5560	0.119740	285.918
65°48'	1314490.4942	30.970412	5617.0724	0.072606	226.648
	78679.1432	0.848403	3495.7405	0.120071	286.903
65°49'	1316348.7189	30.970480	5621.4288	0.072700	227.089
	78730.0474	0.849615	3502.9447	0.120403	287.892
65°50'	1318206.9477	30.970548	5625.7908	0.072795	227.530
	78781.0243	0.850829	3510.1689	0.120735	288.885
65°51'	1320065.1805	30.970616	5630.1585	0.072889	227.973
	78832.0740	0.852045	3517.4130	0.121069	289.882
65°52'	1321923.4175	30.970684	5634.5319	0.072984	228.417
	78883.1967	0.853264	3524.6772	0.121404	290.883
65°53'	1323781.6585	30.970751	5638.9109	0.073079	228.862
	78934.3926	0.854486	3531.9614	0.121741	291.888
65°54'	1325639.9035	30.970819	5643.2957	0.073174	229.308
	78985.6617	0.855710	3539.2659	0.122078	292.898
65°55'	1327498.1527	30.970887	5647.6862	0.073270	229.755
	79037.0043	0.856936	3546.5906	0.122417	293.911
65°56'	1329356.4059	30.970955	5652.0823	0.073365	230.204
	79088.4205	0.858165	3553.9355	0.122756	294.929
65°57'	1331214.6632	30.971022	5656.4843	0.073461	230.654
	79139.9104	0.859397	3561.3009	0.123097	295.951
65°58'	1333072.9245	30.971090	5660.8919	0.073557	231.105
	79191.4742	0.860631	3568.6868	0.123439	296.978
65°59'	1334931.1899	30.971158	5665.3054	0.073653	231.557
	79243.1121	0.861868	3576.0931	0.123783	298.008
66° 0'	1336789.4594	30.971225	5669.7245	0.073750	232.011
	79294.8242	0.863107	3583.5201	0.124127	299.043
66° 1'	1338647.7329	30.971293	5674.1495	0.073846	232.466
	79346.6106	0.864349	3590.9677	0.124473	300.083
66° 2'	1340506.0105	30.971360	5678.5803	0.073943	232.922
	79398.4715	0.865594	3598.4361	0.124820	301.126
66° 3'	1342364.2921	30.971428	5683.0169	0.074040	233.379
	79450.4072	0.866841	3605.9253	0.125168	302.174
66° 4'	1344222.5778	30.971495	5687.4593	0.074137	233.838
	79502.4176	0.868090	3613.4353	0.125517	303.227
66° 5'	1346080.8675	30.971563	5691.9075	0.074235	234.297
	79554.5030	0.869343	3620.9664	0.125868	304.283

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0052	-0.0084	-0.0094

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
66° 6'	1347939.1613	30.971630	5696.3616	0.074332	234.758
	79606.6636	0.870598	3628.5184	0.126219	305.344
66° 7'	1349797.4591	30.971698	5700.8215	0.074430	235.221
	79658.8995	0.871855	3636.0916	0.126572	306.410
66° 8'	1351655.7610	30.971765	5705.2873	0.074528	235.684
	79711.2108	0.873115	3643.6859	0.126927	307.480
66° 9'	1353514.0669	30.971832	5709.7590	0.074626	236.149
	79763.5977	0.874378	3651.3015	0.127282	308.555
66°10'	1355372.3768	30.971899	5714.2365	0.074725	236.615
	79816.0604	0.875644	3658.9384	0.127639	309.634
66°11'	1357230.6908	30.971967	5718.7200	0.074823	237.082
	79868.5990	0.876912	3666.5968	0.127997	310.718
66°12'	1359089.0088	30.972034	5723.2094	0.074922	237.551
	79921.2137	0.878182	3674.2766	0.128356	311.806
66°13'	1360947.3308	30.972101	5727.7047	0.075021	238.021
	79973.9046	0.879456	3681.9779	0.128716	312.899
66°14'	1362805.6569	30.972168	5732.2060	0.075120	238.492
	80026.6720	0.880732	3689.7009	0.129078	313.996
66°15'	1364663.9870	30.972235	5736.7132	0.075220	238.965
	80079.5159	0.882011	3697.4456	0.129441	315.098
66°16'	1366522.3211	30.972302	5741.2264	0.075320	239.439
	80132.4366	0.883292	3705.2121	0.129805	316.205
66°17'	1368380.6592	30.972369	5745.7456	0.075419	239.914
	80185.4341	0.884576	3713.0004	0.130171	317.316
66°18'	1370239.0014	30.972436	5750.2708	0.075519	240.390
	80238.5087	0.885863	3720.8106	0.130538	318.432
66°19'	1372097.3475	30.972503	5754.8019	0.075620	240.868
	80291.6605	0.887153	3728.6429	0.130906	319.553
66°20'	1373955.6977	30.972570	5759.3391	0.075720	241.347
	80344.8897	0.888445	3736.4973	0.131275	320.678
66°21'	1375814.0519	30.972637	5763.8823	0.075821	241.827
	80398.1964	0.889740	3744.3738	0.131646	321.808
66°22'	1377672.4102	30.972704	5768.4316	0.075922	242.309
	80451.5808	0.891038	3752.2725	0.132018	322.943
66°23'	1379530.7724	30.972771	5772.9869	0.076023	242.792
	80505.0431	0.892339	3760.1936	0.132391	324.083
66°24'	1381389.1386	30.972837	5777.5483	0.076125	243.277
	80558.5834	0.893642	3768.1371	0.132766	325.228
66°25'	1383247.5089	30.972904	5782.1158	0.076226	243.762
	80612.2019	0.894948	3776.1031	0.133142	326.378
66°26'	1385105.8831	30.972971	5786.6894	0.076328	244.249
	80665.8988	0.896257	3784.0916	0.133520	327.532
66°27'	1386964.2613	30.973037	5791.2690	0.076430	244.738
	80719.6742	0.897568	3792.1028	0.133898	328.691

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0055	-0.0088	-0.0099

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
66°28'	1388822.6436	30.973104	5795.8548	0.076532	245.228
	80773.5282	0.898883	3800.1367	0.134278	329.856
66°29'	1390681.0298	30.973171	5800.4468	0.076635	245.719
	80827.4612	0.900200	3808.1934	0.134660	331.025
66°30'	1392539.4201	30.973237	5805.0449	0.076737	246.211
	80881.4732	0.901520	3816.2729	0.135042	332.199
66°31'	1394397.8143	30.973304	5809.6491	0.076840	246.705
	80935.5643	0.902842	3824.3755	0.135426	333.378
66°32'	1396256.2125	30.973370	5814.2595	0.076943	247.201
	80989.7349	0.904168	3832.5011	0.135812	334.562
66°33'	1398114.6147	30.973437	5818.8761	0.077047	247.697
	81043.9850	0.905496	3840.6498	0.136199	335.752
66°34'	1399973.0209	30.973503	5823.4989	0.077150	248.195
	81098.3147	0.906827	3848.8217	0.136587	336.946
66°35'	1401831.4311	30.973569	5828.1280	0.077254	248.695
	81152.7244	0.908161	3857.0169	0.136976	338.145
66°36'	1403689.8452	30.973636	5832.7632	0.077358	249.195
	81207.2141	0.909498	3865.2355	0.137367	339.350
66°37'	1405548.2634	30.973702	5837.4047	0.077462	249.698
	81261.7840	0.910838	3873.4775	0.137760	340.560
66°38'	1407406.6855	30.973768	5842.0524	0.077567	250.201
	81316.4343	0.912181	3881.7431	0.138153	341.775
66°39'	1409265.1116	30.973834	5846.7064	0.077672	250.706
	81371.1651	0.913526	3890.0323	0.138549	342.995
66°40'	1411123.5416	30.973901	5851.3667	0.077776	251.213
	81425.9767	0.914875	3898.3452	0.138945	344.220
66°41'	1412981.9756	30.973967	5856.0333	0.077882	251.721
	81480.8691	0.916226	3906.6820	0.139343	345.451
66°42'	1414840.4137	30.974033	5860.7062	0.077987	252.230
	81535.8427	0.917580	3915.0426	0.139743	346.687
66°43'	1416698.8556	30.974099	5865.3854	0.078093	252.741
	81590.8975	0.918937	3923.4271	0.140144	347.928
66°44'	1418557.3016	30.974165	5870.0710	0.078198	253.253
	81646.0337	0.920297	3931.8357	0.140546	349.174
66°45'	1420415.7514	30.974231	5874.7629	0.078304	253.766
	81701.2515	0.921660	3940.2685	0.140950	350.426
66°46'	1422274.2053	30.974297	5879.4612	0.078411	254.281
	81756.5511	0.923026	3948.7255	0.141355	351.684
66°47'	1424132.6631	30.974363	5884.1658	0.078517	254.798
	81811.9326	0.924394	3957.2067	0.141761	352.946
66°48'	1425991.1249	30.974429	5888.8768	0.078624	255.316
	81867.3963	0.925766	3965.7124	0.142170	354.215
66°49'	1427849.5906	30.974495	5893.5943	0.078731	255.835
	81922.9423	0.927141	3974.2426	0.142579	355.488

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0058	-0.0092	-0.0104

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
66°50'	1429708.0603	30.974560	5898.3181	0.078838	256.356
	81978.5707	0.928518	3982.7973	0.142990	356.767
66°51'	1431566.5339	30.974626	5903.0484	0.078946	256.878
	82034.2818	0.929899	3991.3768	0.143403	358.052
66°52'	1433425.0115	30.974692	5907.7851	0.079053	257.402
	82090.0757	0.931282	3999.9809	0.143817	359.342
66°53'	1435283.4930	30.974758	5912.5283	0.079161	257.927
	82145.9527	0.932669	4008.6099	0.144232	360.638
66°54'	1437141.9784	30.974823	5917.2780	0.079269	258.454
	82201.9128	0.934058	4017.2638	0.144649	361.940
66°55'	1439000.4678	30.974889	5922.0341	0.079378	258.982
	82257.9563	0.935451	4025.9428	0.145068	363.247
66°56'	1440858.9612	30.974955	5926.7968	0.079486	259.512
	82314.0833	0.936846	4034.6469	0.145488	364.560
66°57'	1442717.4584	30.975020	5931.5660	0.079595	260.043
	82370.2941	0.938245	4043.3761	0.145909	365.878
66°58'	1444575.9596	30.975086	5936.3417	0.079704	260.576
	82426.5888	0.939647	4052.1307	0.146332	367.202
66°59'	1446434.4648	30.975151	5941.1239	0.079813	261.111
	82482.9676	0.941051	4060.9106	0.146757	368.532
67° 0'	1448292.9738	30.975217	5945.9127	0.079923	261.646
	82539.4307	0.942459	4069.7161	0.147183	369.868
67° 1'	1450151.4868	30.975282	5950.7081	0.080033	262.184
	82595.9783	0.943870	4078.5471	0.147611	371.210
67° 2'	1452010.0038	30.975347	5955.5101	0.080143	262.723
	82652.6105	0.945284	4087.4037	0.148040	372.557
67° 3'	1453868.5246	30.975413	5960.3186	0.080253	263.263
	82709.3275	0.946700	4096.2861	0.148471	373.910
67° 4'	1455727.0494	30.975478	5965.1338	0.080364	263.805
	82766.1295	0.948120	4105.1944	0.148903	375.270
67° 5'	1457585.5780	30.975543	5969.9556	0.080474	264.348
	82823.0167	0.949544	4114.1286	0.149337	376.635
67° 6'	1459444.1106	30.975609	5974.7841	0.080585	264.893
	82879.9893	0.950970	4123.0888	0.149773	378.006
67° 7'	1461302.6472	30.975674	5979.6192	0.080697	265.440
	82937.0475	0.952399	4132.0752	0.150210	379.383
67° 8'	1463161.1876	30.975739	5984.4610	0.080808	265.988
	82994.1915	0.953831	4141.0878	0.150649	380.766
67° 9'	1465019.7319	30.975804	5989.3095	0.080920	266.538
	83051.4214	0.955267	4150.1267	0.151089	382.155
67°10'	1466878.2802	30.975869	5994.1647	0.081032	267.089
	83108.7374	0.956706	4159.1921	0.151531	383.550
67°11'	1468736.8323	30.975934	5999.0266	0.081144	267.642
	83166.1397	0.958147	4168.2840	0.151975	384.952

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0060	-0.0097	-0.0109

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
67°12'	1470595.3883	30.975999	6003.8952	0.081256	268.197
	83223.6286	0.959592	4177.4024	0.152420	386.359
67°13'	1472453.9483	30.976064	6008.7706	0.081369	268.753
	83281.2041	0.961041	4186.5476	0.152867	387.773
67°14'	1474312.5121	30.976129	6013.6528	0.081482	269.310
	83338.8665	0.962492	4195.7196	0.153315	389.193
67°15'	1476171.0799	30.976194	6018.5417	0.081595	269.870
	83396.6161	0.963946	4204.9185	0.153765	390.619
67°16'	1478029.6515	30.976259	6023.4374	0.081709	270.430
	83454.4529	0.965404	4214.1444	0.154217	392.052
67°17'	1479888.2271	30.976324	6028.3400	0.081823	270.993
	83512.3771	0.966865	4223.3974	0.154670	393.491
67°18'	1481746.8065	30.976388	6033.2493	0.081937	271.557
	83570.3890	0.968329	4232.6776	0.155125	394.936
67°19'	1483605.3898	30.976453	6038.1655	0.082051	272.123
	83628.4888	0.969797	4241.9852	0.155582	396.387
67°20'	1485463.9770	30.976518	6043.0886	0.082165	272.690
	83686.6766	0.971267	4251.3201	0.156041	397.845
67°21'	1487322.5681	30.976583	6048.0185	0.082280	273.259
	83744.9526	0.972741	4260.6825	0.156501	399.309
67°22'	1489181.1630	30.976647	6052.9553	0.082395	273.830
	83803.3170	0.974218	4270.0726	0.156962	400.780
67°23'	1491039.7619	30.976712	6057.8990	0.082510	274.402
	83861.7701	0.975698	4279.4903	0.157426	402.258
67°24'	1492898.3646	30.976776	6062.8496	0.082626	274.976
	83920.3120	0.977182	4288.9359	0.157891	403.742
67°25'	1494756.9712	30.976841	6067.8071	0.082741	275.552
	83978.9430	0.978669	4298.4093	0.158358	405.232
67°26'	1496615.5816	30.976906	6072.7716	0.082857	276.129
	84037.6631	0.980159	4307.9108	0.158827	406.729
67°27'	1498474.1960	30.976970	6077.7431	0.082974	276.708
	84096.4726	0.981653	4317.4404	0.159297	408.233
67°28'	1500332.8142	30.977034	6082.7215	0.083090	277.289
	84155.3718	0.983149	4326.9983	0.159769	409.743
67°29'	1502191.4362	30.977099	6087.7069	0.083207	277.871
	84214.3608	0.984649	4336.5844	0.160243	411.260
67°30'	1504050.0621	30.977163	6092.6993	0.083324	278.455
	84273.4397	0.986153	4346.1990	0.160719	412.784
67°31'	1505908.6919	30.977227	6097.6988	0.083441	279.041
	84332.6089	0.987660	4355.8422	0.161196	414.315
67°32'	1507767.3256	30.977292	6102.7052	0.083559	279.628
	84391.8685	0.989170	4365.5139	0.161676	415.852
67°33'	1509625.9631	30.977356	6107.7188	0.083677	280.217
	84451.2187	0.990683	4375.2145	0.162156	417.397

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0063	-0.0101	-0.0114

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
67°34'	1511484.6044	30.977420	6112.7394	0.083795	280.808
	84510.6597	0.992200	4384.9439	0.162639	418.948
67°35'	1513343.2497	30.977484	6117.7671	0.083913	281.401
	84570.1917	0.993720	4394.7022	0.163124	420.506
67°36'	1515201.8987	30.977548	6122.8019	0.084032	281.995
	84629.8149	0.995244	4404.4896	0.163610	422.071
67°37'	1517060.5516	30.977613	6127.8438	0.084151	282.591
	84689.5296	0.996771	4414.3063	0.164098	423.643
67°38'	1518919.2084	30.977677	6132.8928	0.084270	283.189
	84749.3358	0.998302	4424.1522	0.164588	425.222
67°39'	1520777.8690	30.977741	6137.9490	0.084389	283.789
	84809.2339	0.999835	4434.0275	0.165080	426.809
67°40'	1522636.5334	30.977805	6143.0124	0.084509	284.390
	84869.2240	1.001373	4443.9323	0.165574	428.402
67°41'	1524495.2017	30.977869	6148.0829	0.084629	284.993
	84929.3064	1.002913	4453.8667	0.166069	430.002
67°42'	1526353.8738	30.977932	6153.1607	0.084749	285.598
	84989.4812	1.004458	4463.8309	0.166567	431.610
67°43'	1528212.5497	30.977996	6158.2456	0.084870	286.205
	85049.7487	1.006005	4473.8249	0.167066	433.225
67°44'	1530071.2295	30.978060	6163.3378	0.084990	286.813
	85110.1090	1.007556	4483.8488	0.167567	434.847
67°45'	1531929.9131	30.978124	6168.4372	0.085112	287.423
	85170.5623	1.009111	4493.9028	0.168070	436.477
67°46'	1533788.6005	30.978188	6173.5439	0.085233	288.035
	85231.1090	1.010669	4503.9871	0.168575	438.113
67°47'	1535647.2918	30.978251	6178.6579	0.085354	288.649
	85291.7491	1.012231	4514.1015	0.169082	439.758
67°48'	1537505.9869	30.978315	6183.7792	0.085476	289.265
	85352.4830	1.013796	4524.2464	0.169590	441.409
67°49'	1539364.6858	30.978379	6188.9077	0.085598	289.882
	85413.3107	1.015364	4534.4219	0.170101	443.068
67°50'	1541223.3885	30.978442	6194.0437	0.085721	290.502
	85474.2326	1.016936	4544.6279	0.170613	444.735
67°51'	1543082.0950	30.978506	6199.1869	0.085844	291.123
	85535.2488	1.018512	4554.8647	0.171128	446.409
67°52'	1544940.8054	30.978569	6204.3375	0.085967	291.746
	85596.3595	1.020091	4565.1324	0.171644	448.090
67°53'	1546799.5196	30.978633	6209.4955	0.086090	292.370
	85657.5650	1.021674	4575.4311	0.172163	449.779
67°54'	1548658.2375	30.978696	6214.6609	0.086213	292.997
	85718.8654	1.023261	4585.7608	0.172683	451.476
67°55'	1550516.9593	30.978760	6219.8337	0.086337	293.626
	85780.2611	1.024851	4596.1218	0.173205	453.181

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0067	-0.0106	-0.0120

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
67°56'	1552375.6849	30.978823	6225.0139	0.086461	294.256
	85841.7521	1.026444	4606.5141	0.173729	454.893
67°57'	1554234.4143	30.978886	6230.2016	0.086586	294.888
	85903.3387	1.028041	4616.9378	0.174256	456.613
67°58'	1556093.1474	30.978950	6235.3968	0.086710	295.522
	85965.0212	1.029642	4627.3932	0.174784	458.341
67°59'	1557951.8844	30.979013	6240.5994	0.086835	296.158
	86026.7998	1.031247	4637.8802	0.175314	460.077
68° 0'	1559810.6252	30.979076	6245.8095	0.086961	296.796
	86088.6746	1.032855	4648.3990	0.175846	461.821
68° 1'	1561669.3698	30.979139	6251.0271	0.087086	297.436
	86150.6459	1.034467	4658.9498	0.176380	463.572
68° 2'	1563528.1181	30.979203	6256.2523	0.087212	298.078
	86212.7138	1.036082	4669.5326	0.176917	465.332
68° 3'	1565386.8703	30.979266	6261.4850	0.087338	298.721
	86274.8788	1.037701	4680.1476	0.177455	467.099
68° 4'	1567245.6262	30.979329	6266.7253	0.087464	299.367
	86337.1408	1.039324	4690.7949	0.177995	468.875
68° 5'	1569104.3860	30.979392	6271.9731	0.087591	300.014
	86399.5003	1.040950	4701.4746	0.178538	470.659
68° 6'	1570963.1495	30.979455	6277.2286	0.087718	300.664
	86461.9573	1.042580	4712.1869	0.179082	472.451
68° 7'	1572821.9167	30.979518	6282.4917	0.087845	301.315
	86524.5121	1.044214	4722.9318	0.179629	474.251
68° 8'	1574680.6878	30.979581	6287.7624	0.087973	301.968
	86587.1650	1.045852	4733.7095	0.180177	476.059
68° 9'	1576539.4626	30.979643	6293.0407	0.088101	302.624
	86649.9161	1.047493	4744.5202	0.180728	477.876
68°10'	1578398.2413	30.979706	6298.3268	0.088229	303.281
	86712.7657	1.049139	4755.3639	0.181281	479.701
68°11'	1580257.0236	30.979769	6303.6205	0.088357	303.940
	86775.7140	1.050787	4766.2407	0.181836	481.534
68°12'	1582115.8098	30.979832	6308.9219	0.088486	304.601
	86838.7612	1.052440	4777.1509	0.182393	483.376
68°13'	1583974.5997	30.979895	6314.2311	0.088615	305.265
	86901.9076	1.054097	4788.0944	0.182952	485.226
68°14'	1585833.3934	30.979957	6319.5480	0.088744	305.930
	86965.1534	1.055757	4799.0716	0.183513	487.085
68°15'	1587692.1908	30.980020	6324.8726	0.088874	306.597
	87028.4989	1.057421	4810.0824	0.184077	488.952
68°16'	1589550.9920	30.980083	6330.2050	0.089004	307.266
	87091.9441	1.059089	4821.1270	0.184643	490.828
68°17'	1591409.7970	30.980145	6335.5453	0.089134	307.937
	87155.4894	1.060761	4832.2056	0.185210	492.712

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0070	-0.0112	-0.0126

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
68°18'	1593268.6057	30.980208	6340.8933	0.089264	308.611
	87219.1351	1.062436	4843.3182	0.185781	494.606
68°19'	1595127.4181	30.980270	6346.2492	0.089395	309.286
	87282.8812	1.064116	4854.4650	0.186353	496.508
68°20'	1596986.2344	30.980333	6351.6129	0.089526	309.963
	87346.7282	1.065799	4865.6462	0.186927	498.418
68°21'	1598845.0543	30.980395	6356.9845	0.089658	310.643
	87410.6761	1.067486	4876.8618	0.187504	500.338
68°22'	1600703.8780	30.980457	6362.3639	0.089790	311.324
	87474.7253	1.069177	4888.1120	0.188083	502.267
68°23'	1602562.7055	30.980520	6367.7513	0.089922	312.008
	87538.8759	1.070872	4899.3970	0.188664	504.204
68°24'	1604421.5367	30.980582	6373.1466	0.090054	312.693
	87603.1283	1.072571	4910.7168	0.189247	506.150
68°25'	1606280.3716	30.980644	6378.5498	0.090187	313.381
	87667.4825	1.074274	4922.0716	0.189833	508.106
68°26'	1608139.2102	30.980707	6383.9610	0.090319	314.070
	87731.9390	1.075981	4933.4616	0.190421	510.070
68°27'	1609998.0526	30.980769	6389.3802	0.090453	314.762
	87796.4978	1.077692	4944.8868	0.191011	512.044
68°28'	1611856.8988	30.980831	6394.8073	0.090586	315.456
	87861.1594	1.079406	4956.3475	0.191603	514.027
68°29'	1613715.7486	30.980893	6400.2425	0.090720	316.152
	87925.9237	1.081125	4967.8437	0.192198	516.019
68°30'	1615574.6022	30.980955	6405.6857	0.090854	316.851
	87990.7912	1.082848	4979.3755	0.192795	518.020
68°31'	1617433.4595	30.981017	6411.1370	0.090989	317.551
	88055.7621	1.084575	4990.9432	0.193394	520.031
68°32'	1619292.3206	30.981079	6416.5963	0.091124	318.253
	88120.8366	1.086305	5002.5469	0.193996	522.051
68°33'	1621151.1853	30.981141	6422.0638	0.091259	318.958
	88186.0149	1.088040	5014.1866	0.194600	524.080
68°34'	1623010.0538	30.981203	6427.5393	0.091394	319.665
	88251.2973	1.089779	5025.8626	0.195206	526.119
68°35'	1624868.9260	30.981265	6433.0230	0.091530	320.374
	88316.6841	1.091522	5037.5750	0.195815	528.167
68°36'	1626727.8019	30.981327	6438.5148	0.091666	321.085
	88382.1754	1.093269	5049.3239	0.196426	530.225
68°37'	1628586.6815	30.981389	6444.0147	0.091803	321.798
	88447.7715	1.095020	5061.1095	0.197040	532.293
68°38'	1630445.5648	30.981450	6449.5229	0.091939	322.514
	88513.4727	1.096775	5072.9318	0.197656	534.370
68°39'	1632304.4518	30.981512	6455.0393	0.092076	323.231
	88579.2792	1.098534	5084.7912	0.198274	536.457

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0074	-0.0118	-0.0133

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
68°40'	1634163.3425	30.981574	6460.5638	0.092214	323.951
	88645.1912	1.100297	5096.6876	0.198895	538.554
68°41'	1636022.2370	30.981635	6466.0967	0.092351	324.673
	88711.2091	1.102065	5108.6213	0.199518	540.661
68°42'	1637881.1351	30.981697	6471.6378	0.092490	325.398
	88777.3330	1.103837	5120.5923	0.200143	542.778
68°43'	1639740.0369	30.981759	6477.1871	0.092628	326.124
	88843.5631	1.105612	5132.6009	0.200771	544.904
68°44'	1641598.9424	30.981820	6482.7448	0.092767	326.853
	88909.8999	1.107392	5144.6472	0.201402	547.041
68°45'	1643457.8516	30.981882	6488.3108	0.092906	327.584
	88976.3434	1.109176	5156.7313	0.202035	549.187
68°46'	1645316.7646	30.981943	6493.8851	0.093045	328.317
	89042.8940	1.110965	5168.8534	0.202670	551.344
68°47'	1647175.6811	30.982005	6499.4678	0.093185	329.053
	89109.5519	1.112757	5181.0136	0.203308	553.511
68°48'	1649034.6014	30.982066	6505.0589	0.093325	329.791
	89176.3173	1.114554	5193.2121	0.203949	555.688
68°49'	1650893.5254	30.982127	6510.6584	0.093465	330.531
	89243.1906	1.116355	5205.4490	0.204592	557.876
68°50'	1652752.4530	30.982189	6516.2662	0.093606	331.273
	89310.1719	1.118160	5217.7246	0.205237	560.074
68°51'	1654611.3843	30.982250	6521.8826	0.093746	332.018
	89377.2615	1.119970	5230.0388	0.205885	562.282
68°52'	1656470.3193	30.982311	6527.5074	0.093888	332.765
	89444.4597	1.121784	5242.3919	0.206536	564.501
68°53'	1658329.2580	30.982372	6533.1406	0.094029	333.514
	89511.7667	1.123602	5254.7841	0.207189	566.730
68°54'	1660188.2003	30.982433	6538.7824	0.094171	334.266
	89579.1828	1.125424	5267.2154	0.207845	568.970
68°55'	1662047.1463	30.982495	6544.4327	0.094314	335.020
	89646.7082	1.127251	5279.6861	0.208503	571.220
68°56'	1663906.0960	30.982556	6550.0915	0.094456	335.777
	89714.3433	1.129082	5292.1963	0.209164	573.481
68°57'	1665765.0493	30.982617	6555.7589	0.094599	336.535
	89782.0882	1.130917	5304.7462	0.209828	575.753
68°58'	1667624.0063	30.982678	6561.4349	0.094743	337.296
	89849.9432	1.132757	5317.3359	0.210494	578.036
68°59'	1669482.9670	30.982739	6567.1195	0.094887	338.060
	89917.9087	1.134601	5329.9655	0.211163	580.329
69° 0'	1671341.9313	30.982799	6572.8126	0.095031	338.826
	89985.9847	1.136450	5342.6353	0.211835	582.634
69° 1'	1673200.8993	30.982860	6578.5145	0.095175	339.594
	90054.1717	1.138303	5355.3454	0.212509	584.949

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(IX)	0.0000	-0.0078	-0.0124	-0.0140

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
69° 2'	1675059.8709	30.982921	6584.2250	0.095320	340.365
	90122.4699	1.140160	5368.0960	0.213186	587.276
69° 3'	1676918.8461	30.982982	6589.9442	0.095465	341.138
	90190.8795	1.142022	5380.8871	0.213866	589.613
69° 4'	1678777.8251	30.983043	6595.6720	0.095610	341.913
	90259.4008	1.143888	5393.7191	0.214548	591.962
69° 5'	1680636.8076	30.983103	6601.4087	0.095756	342.691
	90328.0340	1.145759	5406.5919	0.215233	594.322
69° 6'	1682495.7938	30.983164	6607.1540	0.095902	343.472
	90396.7796	1.147634	5419.5059	0.215921	596.694
69° 7'	1684354.7837	30.983225	6612.9081	0.096049	344.255
	90465.6376	1.149513	5432.4611	0.216611	599.077
69° 8'	1686213.7772	30.983285	6618.6711	0.096195	345.040
	90534.6084	1.151397	5445.4578	0.217305	601.471
69° 9'	1688072.7743	30.983346	6624.4428	0.096343	345.828
	90603.6922	1.153286	5458.4961	0.218001	603.876
69°10'	1689931.7750	30.983406	6630.2233	0.096490	346.618
	90672.8894	1.155179	5471.5761	0.218699	606.294
69°11'	1691790.7794	30.983467	6636.0127	0.096638	347.411
	90742.2001	1.157077	5484.6981	0.219401	608.722
69°12'	1693649.7874	30.983527	6641.8110	0.096786	348.206
	90811.6248	1.158979	5497.8622	0.220106	611.163
69°13'	1695508.7991	30.983588	6647.6182	0.096935	349.004
	90881.1635	1.160886	5511.0685	0.220813	613.615
69°14'	1697367.8143	30.983648	6653.4343	0.097084	349.804
	90950.8167	1.162798	5524.3173	0.221523	616.080
69°15'	1699226.8332	30.983708	6659.2593	0.097233	350.607
	91020.5845	1.164714	5537.6087	0.222236	618.556
69°16'	1701085.8557	30.983769	6665.0933	0.097383	351.412
	91090.4674	1.166634	5550.9428	0.222952	621.044
69°17'	1702944.8818	30.983829	6670.9363	0.097533	352.220
	91160.4654	1.168560	5564.3199	0.223671	623.544
69°18'	1704803.9116	30.983889	6676.7882	0.097683	353.031
	91230.5790	1.170489	5577.7402	0.224392	626.056
69°19'	1706662.9449	30.983949	6682.6492	0.097834	353.844
	91300.8084	1.172424	5591.2037	0.225117	628.580
69°20'	1708521.9819	30.984009	6688.5193	0.097985	354.659
	91371.1538	1.174363	5604.7107	0.225844	631.116
69°21'	1710381.0225	30.984070	6694.3984	0.098137	355.478
	91441.6156	1.176307	5618.2614	0.226575	633.665
69°22'	1712240.0666	30.984130	6700.2866	0.098289	356.298
	91512.1940	1.178256	5631.8559	0.227308	636.226
69°23'	1714099.1144	30.984190	6706.1839	0.098441	357.122
	91582.8894	1.180209	5645.4944	0.228045	638.800

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0082	-0.0131	-0.0147

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
69°24'	1715958.1658	30.984250	6712.0903	0.098593	357.948
	91653.7020	1.182168	5659.1770	0.228784	641.386
69°25'	1717817.2207	30.984309	6718.0059	0.098746	358.777
	91724.6320	1.184130	5672.9041	0.229526	643.985
69°26'	1719676.2793	30.984369	6723.9307	0.098900	359.608
	91795.6799	1.186098	5686.6756	0.230272	646.596
69°27'	1721535.3415	30.984429	6729.8647	0.099053	360.442
	91866.8457	1.188071	5700.4919	0.231020	649.220
69°28'	1723394.4072	30.984489	6735.8079	0.099208	361.279
	91938.1300	1.190048	5714.3531	0.231771	651.857
69°29'	1725253.4766	30.984549	6741.7604	0.099362	362.118
	92009.5329	1.192030	5728.2594	0.232526	654.507
69°30'	1727112.5495	30.984608	6747.7221	0.099517	362.960
	92081.0547	1.194017	5742.2110	0.233283	657.169
69°31'	1728971.6260	30.984668	6753.6931	0.099672	363.805
	92152.6957	1.196009	5756.2080	0.234044	659.845
69°32'	1730830.7061	30.984728	6759.6734	0.099828	364.652
	92224.4562	1.198005	5770.2506	0.234808	662.534
69°33'	1732689.7898	30.984787	6765.6631	0.099984	365.503
	92296.3365	1.200007	5784.3391	0.235575	665.236
69°34'	1734548.8770	30.984847	6771.6621	0.100140	366.356
	92368.3369	1.202013	5798.4735	0.236345	667.951
69°35'	1736407.9678	30.984907	6777.6705	0.100297	367.211
	92440.4577	1.204024	5812.6542	0.237118	670.679
69°36'	1738267.0622	30.984966	6783.6883	0.100454	368.070
	92512.6991	1.206041	5826.8813	0.237894	673.421
69°37'	1740126.1602	30.985025	6789.7156	0.100612	368.931
	92585.0616	1.208062	5841.1549	0.238673	676.177
69°38'	1741985.2617	30.985085	6795.7523	0.100770	369.795
	92657.5453	1.210088	5855.4753	0.239456	678.945
69°39'	1743844.3668	30.985144	6801.7985	0.100928	370.662
	92730.1505	1.212119	5869.8427	0.240242	681.728
69°40'	1745703.4755	30.985204	6807.8541	0.101087	371.531
	92802.8777	1.214155	5884.2572	0.241031	684.524
69°41'	1747562.5877	30.985263	6813.9193	0.101246	372.404
	92875.7270	1.216196	5898.7191	0.241823	687.334
69°42'	1749421.7034	30.985322	6819.9941	0.101405	373.279
	92948.6988	1.218242	5913.2285	0.242619	690.158
69°43'	1751280.8228	30.985381	6826.0784	0.101565	374.157
	93021.7933	1.220293	5927.7856	0.243418	692.996
69°44'	1753139.9457	30.985440	6832.1723	0.101725	375.038
	93095.0109	1.222350	5942.3907	0.244220	695.848
69°45'	1754999.0721	30.985500	6838.2758	0.101886	375.922
	93168.3519	1.224411	5957.0439	0.245026	698.713

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0086	-0.0138	-0.0155

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
69°46'	1756858.2021	30.985559	6844.3890	0.102047	376.808
	93241.8165	1.226477	5971.7454	0.245834	701.594
69°47'	1758717.3356	30.985618	6850.5118	0.102209	377.698
	93315.4052	1.228549	5986.4955	0.246646	704.488
69°48'	1760576.4727	30.985677	6856.6443	0.102370	378.590
	93389.1181	1.230626	6001.2943	0.247462	707.397
69°49'	1762435.6133	30.985736	6862.7865	0.102533	379.485
	93462.9557	1.232707	6016.1420	0.248281	710.320
69°50'	1764294.7574	30.985795	6868.9385	0.102695	380.384
	93536.9181	1.234794	6031.0388	0.249103	713.257
69°51'	1766153.9051	30.985854	6875.1002	0.102859	381.285
	93611.0057	1.236886	6045.9850	0.249929	716.210
69°52'	1768013.0563	30.985912	6881.2717	0.103022	382.189
	93685.2189	1.238984	6060.9807	0.250758	719.177
69°53'	1769872.2110	30.985971	6887.4531	0.103186	383.096
	93759.5579	1.241086	6076.0262	0.251590	722.158
69°54'	1771731.3693	30.986030	6893.6442	0.103350	384.006
	93834.0231	1.243194	6091.1216	0.252426	725.155
69°55'	1773590.5311	30.986089	6899.8452	0.103515	384.919
	93908.6147	1.245307	6106.2672	0.253266	728.166
69°56'	1775449.6964	30.986147	6906.0561	0.103680	385.835
	93983.3332	1.247425	6121.4631	0.254109	731.193
69°57'	1777308.8653	30.986206	6912.2769	0.103846	386.754
	94058.1787	1.249549	6136.7097	0.254955	734.234
69°58'	1779168.0376	30.986265	6918.5077	0.104012	387.676
	94133.1516	1.251677	6152.0070	0.255805	737.291
69°59'	1781027.2135	30.986323	6924.7484	0.104178	388.601
	94208.2522	1.253812	6167.3553	0.256659	740.363
70° 0'	1782886.3929	30.986382	6930.9990	0.104345	389.529
	94283.4809	1.255951	6182.7548	0.257516	743.451
70° 1'	1784745.5758	30.986440	6937.2597	0.104512	390.460
	94358.8380	1.258096	6198.2057	0.258376	746.554
70° 2'	1786604.7622	30.986499	6943.5305	0.104680	391.394
	94434.3237	1.260246	6213.7083	0.259241	749.672
70° 3'	1788463.9521	30.986557	6949.8112	0.104848	392.332
	94509.9385	1.262402	6229.2627	0.260108	752.806
70° 4'	1790323.1456	30.986615	6956.1021	0.105016	393.272
	94585.6826	1.264563	6244.8692	0.260980	755.956
70° 5'	1792182.3425	30.986674	6962.4031	0.105185	394.215
	94661.5564	1.266729	6260.5280	0.261855	759.122
70° 6'	1794041.5429	30.986732	6968.7142	0.105354	395.162
	94737.5601	1.268901	6276.2394	0.262734	762.304
70° 7'	1795900.7468	30.986790	6975.0354	0.105524	396.112
	94813.6942	1.271078	6292.0034	0.263616	765.502

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0091	-0.0146	-0.0164

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
70° 8'	1797759.9543	30.986848	6981.3669	0.105694	397.065
	94889.9589	1.273261	6307.8204	0.264503	768.715
70° 9'	1799619.1652	30.986907	6987.7085	0.105865	398.021
	94966.3545	1.275449	6323.6905	0.265393	771.945
70°10'	1801478.3796	30.986965	6994.0604	0.106036	398.980
	95042.8815	1.277643	6339.6141	0.266286	775.192
70°11'	1803337.5974	30.987023	7000.4226	0.106207	399.942
	95119.5401	1.279842	6355.5913	0.267184	778.454
70°12'	1805196.8188	30.987081	7006.7950	0.106379	400.908
	95196.3306	1.282047	6371.6223	0.268085	781.734
70°13'	1807056.0437	30.987139	7013.1778	0.106552	401.876
	95273.2535	1.284258	6387.7074	0.268990	785.030
70°14'	1808915.2720	30.987197	7019.5709	0.106724	402.848
	95350.3089	1.286474	6403.8468	0.269899	788.342
70°15'	1810774.5038	30.987255	7025.9744	0.106898	403.824
	95427.4974	1.288696	6420.0408	0.270812	791.671
70°16'	1812633.7391	30.987313	7032.3882	0.107071	404.802
	95504.8191	1.290923	6436.2895	0.271728	795.018
70°17'	1814492.9779	30.987370	7038.8125	0.107245	405.784
	95582.2745	1.293156	6452.5932	0.272649	798.381
70°18'	1816352.2201	30.987428	7045.2472	0.107420	406.769
	95659.8638	1.295394	6468.9521	0.273573	801.761
70°19'	1818211.4658	30.987486	7051.6924	0.107595	407.757
	95737.5875	1.297639	6485.3665	0.274501	805.159
70°20'	1820070.7149	30.987544	7058.1481	0.107770	408.749
	95815.4458	1.299889	6501.8365	0.275434	808.573
70°21'	1821929.9676	30.987601	7064.6143	0.107946	409.744
	95893.4391	1.302144	6518.3626	0.276370	812.006
70°22'	1823789.2236	30.987659	7071.0911	0.108123	410.742
	95971.5678	1.304406	6534.9447	0.277310	815.455
70°23'	1825648.4832	30.987717	7077.5785	0.108299	411.744
	96049.8321	1.306673	6551.5833	0.278254	818.923
70°24'	1827507.7462	30.987774	7084.0764	0.108477	412.749
	96128.2325	1.308946	6568.2786	0.279202	822.408
70°25'	1829367.0126	30.987832	7090.5850	0.108654	413.757
	96206.7692	1.311225	6585.0307	0.280154	825.911
70°26'	1831226.2825	30.987889	7097.1043	0.108832	414.769
	96285.4427	1.313509	6601.8400	0.281111	829.431
70°27'	1833085.5559	30.987947	7103.6342	0.109011	415.784
	96364.2533	1.315800	6618.7066	0.282071	832.970
70°28'	1834944.8327	30.988004	7110.1749	0.109190	416.803
	96443.2013	1.318096	6635.6309	0.283035	836.527
70°29'	1836804.1129	30.988061	7116.7263	0.109370	417.825
	96522.2870	1.320398	6652.6130	0.284004	840.102

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0096	-0.0154	-0.0174

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
70°30'	1838663.3966	30.988119	7123.2885	0.109550	418.850
	96601.5109	1.322706	6669.6532	0.284977	843.696
70°31'	1840522.6837	30.988176	7129.8615	0.109730	419.879
	96680.8733	1.325020	6686.7518	0.285954	847.308
70°32'	1842381.9743	30.988233	7136.4453	0.109911	420.912
	96760.3746	1.327340	6703.9091	0.286935	850.939
70°33'	1844241.2682	30.988290	7143.0399	0.110092	421.947
	96840.0150	1.329666	6721.1252	0.287920	854.588
70°34'	1846100.5657	30.988347	7149.6455	0.110274	422.987
	96919.7950	1.331998	6738.4004	0.288910	858.256
70°35'	1847959.8665	30.988405	7156.2619	0.110457	424.030
	96999.7149	1.334336	6755.7349	0.289903	861.943
70°36'	1849819.1708	30.988462	7162.8893	0.110639	425.076
	97079.7750	1.336680	6773.1291	0.290901	865.649
70°37'	1851678.4785	30.988519	7169.5277	0.110823	426.126
	97159.9758	1.339030	6790.5832	0.291904	869.374
70°38'	1853537.7896	30.988576	7176.1770	0.111006	427.180
	97240.3177	1.341386	6808.0975	0.292910	873.119
70°39'	1855397.1041	30.988632	7182.8374	0.111190	428.237
	97320.8008	1.343748	6825.6721	0.293921	876.882
70°40'	1857256.4221	30.988689	7189.5088	0.111375	429.298
	97401.4257	1.346117	6843.3074	0.294937	880.666
70°41'	1859115.7434	30.988746	7196.1914	0.111560	430.362
	97482.1927	1.348491	6861.0036	0.295957	884.469
70°42'	1860975.0682	30.988803	7202.8850	0.111746	431.430
	97563.1022	1.350872	6878.7610	0.296981	888.291
70°43'	1862834.3964	30.988860	7209.5897	0.111932	432.502
	97644.1545	1.353258	6896.5798	0.298009	892.134
70°44'	1864693.7280	30.988917	7216.3057	0.112119	433.577
	97725.3500	1.355651	6914.4604	0.299043	895.996
70°45'	1866553.0630	30.988973	7223.0328	0.112306	434.656
	97806.6890	1.358050	6932.4029	0.300080	899.879
70°46'	1868412.4014	30.989030	7229.7711	0.112493	435.739
	97888.1720	1.360456	6950.4078	0.301122	903.782
70°47'	1870271.7431	30.989086	7236.5207	0.112681	436.825
	97969.7994	1.362867	6968.4751	0.302169	907.705
70°48'	1872131.0883	30.989143	7243.2816	0.112870	437.916
	98051.5714	1.365285	6986.6052	0.303220	911.649
70°49'	1873990.4369	30.989200	7250.0538	0.113059	439.009
	98133.4885	1.367709	7004.7984	0.304276	915.613
70°50'	1875849.7889	30.989256	7256.8374	0.113249	440.107
	98215.5511	1.370140	7023.0549	0.305336	919.598
70°51'	1877709.1442	30.989312	7263.6323	0.113439	441.208
	98297.7594	1.372577	7041.3751	0.306401	923.603

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0102	-0.0163	-0.0184

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
70°52'	1879568.5030	30.989369	7270.4386	0.113629	442.314
	98380.1140	1.375020	7059.7591	0.307470	927.630
70°53'	1881427.8651	30.989425	7277.2564	0.113820	443.423
	98462.6152	1.377469	7078.2073	0.308545	931.678
70°54'	1883287.2306	30.989482	7284.0856	0.114012	444.535
	98545.2634	1.379925	7096.7200	0.309623	935.747
70°55'	1885146.5995	30.989538	7290.9263	0.114204	445.652
	98628.0589	1.382388	7115.2974	0.310707	939.837
70°56'	1887005.9718	30.989594	7297.7785	0.114396	446.773
	98711.0022	1.384857	7133.9398	0.311796	943.949
70°57'	1888865.3475	30.989650	7304.6423	0.114589	447.897
	98794.0936	1.387332	7152.6476	0.312889	948.083
70°58'	1890724.7265	30.989706	7311.5177	0.114783	449.025
	98877.3335	1.389814	7171.4209	0.313987	952.238
70°59'	1892584.1088	30.989762	7318.4046	0.114977	450.157
	98960.7224	1.392302	7190.2601	0.315089	956.415
71° 0'	1894443.4946	30.989819	7325.3033	0.115172	451.294
	99044.2605	1.394797	7209.1655	0.316197	960.614
71° 1'	1896302.8837	30.989875	7332.2136	0.115367	452.434
	99127.9484	1.397299	7228.1373	0.317310	964.835
71° 2'	1898162.2762	30.989931	7339.1356	0.115562	453.578
	99211.7863	1.399807	7247.1759	0.318427	969.079
71° 3'	1900021.6720	30.989987	7346.0693	0.115759	454.726
	99295.7747	1.402322	7266.2815	0.319549	973.345
71° 4'	1901881.0712	30.990042	7353.0148	0.115955	455.878
	99379.9140	1.404843	7285.4544	0.320677	977.633
71° 5'	1903740.4738	30.990098	7359.9722	0.116152	457.034
	99464.2046	1.407371	7304.6950	0.321809	981.944
71° 6'	1905599.8797	30.990154	7366.9413	0.116350	458.194
	99548.6469	1.409906	7324.0036	0.322946	986.279
71° 7'	1907459.2889	30.990210	7373.9223	0.116548	459.358
	99633.2413	1.412447	7343.3803	0.324088	990.636
71° 8'	1909318.7015	30.990266	7380.9152	0.116747	460.526
	99717.9881	1.414996	7362.8256	0.325236	995.016
71° 9'	1911178.1174	30.990321	7387.9200	0.116946	461.698
	99802.8879	1.417551	7382.3397	0.326388	999.419
71°10'	1913037.5367	30.990377	7394.9368	0.117146	462.874
	99887.9409	1.420112	7401.9230	0.327545	1003.846
71°11'	1914896.9593	30.990433	7401.9656	0.117347	464.055
	99973.1476	1.422681	7421.5758	0.328708	1008.297
71°12'	1916756.3853	30.990488	7409.0064	0.117547	465.239
	100058.5085	1.425256	7441.2982	0.329876	1012.771
71°13'	1918615.8146	30.990544	7416.0592	0.117749	466.428
	100144.0239	1.427838	7461.0908	0.331049	1017.269

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0108	-0.0173	-0.0195

Transverse Mercator projection tables

ALASKA 2 - 9 Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
71°14'	1920475.2472	30.990599	7423.1241	0.117951	467.621
	100229.6942	1.430428	7480.9537	0.332227	1021.791
71°15'	1922334.6831	30.990655	7430.2012	0.118153	468.818
	100315.5198	1.433024	7500.8874	0.333411	1026.337
71°16'	1924194.1224	30.990710	7437.2904	0.118356	470.019
	100401.5012	1.435626	7520.8920	0.334599	1030.907
71°17'	1926053.5650	30.990765	7444.3918	0.118560	471.225
	100487.6388	1.438236	7540.9679	0.335793	1035.502
71°18'	1927913.0109	30.990821	7451.5054	0.118764	472.435
	100573.9330	1.440853	7561.1155	0.336993	1040.122
71°19'	1929772.4601	30.990876	7458.6312	0.118969	473.649
	100660.3842	1.443477	7581.3351	0.338197	1044.766
71°20'	1931631.9127	30.990931	7465.7693	0.119174	474.867
	100746.9928	1.446108	7601.6270	0.339408	1049.435
71°21'	1933491.3686	30.990986	7472.9197	0.119380	476.090
	100833.7593	1.448746	7621.9914	0.340623	1054.129
71°22'	1935350.8277	30.991041	7480.0825	0.119586	477.317
	100920.6840	1.451391	7642.4288	0.341844	1058.849
71°23'	1937210.2902	30.991097	7487.2577	0.119793	478.548
	101007.7675	1.454043	7662.9394	0.343070	1063.594
71°24'	1939069.7560	30.991152	7494.4453	0.120000	479.784
	101095.0101	1.456702	7683.5236	0.344302	1068.364
71°25'	1940929.2251	30.991207	7501.6453	0.120208	481.024
	101182.4122	1.459369	7704.1818	0.345540	1073.160

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(IX)	0.0000	-0.0108	-0.0173	-0.0195

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
54° 0'	-0.0000	30.915008	8090.1699	0.028491	2.205	
			44418.1180	0.452347	1048.196	0.012268
54° 1'	1854.9005	30.915094	8091.8794	0.028480	2.204	
			44445.2588	0.452709	1049.676	0.012268
54° 2'	3709.8061	30.915180	8093.5882	0.028468	2.203	
			44472.4214	0.453072	1051.159	0.012268
54° 3'	5564.7169	30.915266	8095.2963	0.028457	2.201	
			44499.6057	0.453436	1052.645	0.012268
54° 4'	7419.6329	30.915353	8097.0037	0.028445	2.200	
			44526.8119	0.453800	1054.134	0.012268
54° 5'	9274.5541	30.915439	8098.7104	0.028434	2.199	
			44554.0398	0.454164	1055.625	0.012268
54° 6'	11129.4804	30.915525	8100.4164	0.028422	2.197	
			44581.2897	0.454529	1057.119	0.012268
54° 7'	12984.4119	30.915611	8102.1217	0.028411	2.196	
			44608.5614	0.454895	1058.616	0.012268
54° 8'	14839.3485	30.915697	8103.8264	0.028400	2.195	
			44635.8551	0.455261	1060.115	0.012268
54° 9'	16694.2904	30.915783	8105.5304	0.028388	2.193	
			44663.1708	0.455627	1061.618	0.012268
54°10'	18549.2374	30.915869	8107.2337	0.028377	2.192	
			44690.5084	0.455994	1063.123	0.012267
54°11'	20404.1895	30.915956	8108.9363	0.028365	2.191	
			44717.8681	0.456362	1064.631	0.012267
54°12'	22259.1469	30.916042	8110.6382	0.028354	2.189	
			44745.2498	0.456730	1066.141	0.012267
54°13'	24114.1094	30.916128	8112.3394	0.028342	2.188	
			44772.6536	0.457099	1067.655	0.012267
54°14'	25969.0770	30.916214	8114.0400	0.028331	2.187	
			44800.0795	0.457468	1069.171	0.012267
54°15'	27824.0498	30.916300	8115.7398	0.028320	2.185	
			44827.5276	0.457838	1070.690	0.012267
54°16'	29679.0278	30.916386	8117.4390	0.028308	2.184	
			44854.9979	0.458208	1072.212	0.012267
54°17'	31534.0110	30.916472	8119.1375	0.028297	2.183	
			44882.4903	0.458579	1073.737	0.012267
54°18'	33388.9993	30.916558	8120.8353	0.028285	2.182	
			44910.0051	0.458950	1075.265	0.012267
54°19'	35243.9927	30.916644	8122.5324	0.028274	2.180	
			44937.5420	0.459322	1076.795	0.012267
54°20'	37098.9913	30.916730	8124.2288	0.028262	2.179	
			44965.1013	0.459694	1078.328	0.012267
54°21'	38953.9951	30.916815	8125.9245	0.028251	2.178	
			44992.6830	0.460067	1079.864	0.012267

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0016	-0.0025	-0.0028

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
54°22'	40809.0040	30.916901	8127.6196	0.028239	2.176	
			45020.2870	0.460440	1081.403	0.012267
54°23'	42664.0181	30.916987	8129.3139	0.028228	2.175	
			45047.9134	0.460814	1082.945	0.012267
54°24'	44519.0374	30.917073	8131.0076	0.028216	2.174	
			45075.5623	0.461189	1084.490	0.012267
54°25'	46374.0617	30.917159	8132.7006	0.028205	2.172	
			45103.2336	0.461564	1086.037	0.012267
54°26'	48229.0913	30.917245	8134.3929	0.028193	2.171	
			45130.9274	0.461939	1087.588	0.012267
54°27'	50084.1260	30.917331	8136.0845	0.028182	2.170	
			45158.6438	0.462315	1089.141	0.012267
54°28'	51939.1658	30.917416	8137.7754	0.028170	2.168	
			45186.3827	0.462692	1090.697	0.012267
54°29'	53794.2108	30.917502	8139.4656	0.028159	2.167	
			45214.1442	0.463069	1092.256	0.012267
54°30'	55649.2609	30.917588	8141.1552	0.028148	2.166	
			45241.9283	0.463447	1093.818	0.012267
54°31'	57504.3162	30.917674	8142.8440	0.028136	2.164	
			45269.7351	0.463825	1095.383	0.012267
54°32'	59359.3766	30.917759	8144.5322	0.028125	2.163	
			45297.5646	0.464204	1096.951	0.012266
54°33'	61214.4422	30.917845	8146.2197	0.028113	2.162	
			45325.4169	0.464583	1098.522	0.012266
54°34'	63069.5129	30.917931	8147.9065	0.028102	2.160	
			45353.2918	0.464963	1100.096	0.012266
54°35'	64924.5888	30.918017	8149.5926	0.028090	2.159	
			45381.1896	0.465343	1101.673	0.012266
54°36'	66779.6698	30.918102	8151.2780	0.028079	2.158	
			45409.1102	0.465724	1103.252	0.012266
54°37'	68634.7559	30.918188	8152.9627	0.028067	2.156	
			45437.0537	0.466106	1104.835	0.012266
54°38'	70489.8472	30.918274	8154.6467	0.028056	2.155	
			45465.0200	0.466488	1106.421	0.012266
54°39'	72344.9436	30.918359	8156.3300	0.028044	2.154	
			45493.0093	0.466870	1108.009	0.012266
54°40'	74200.0451	30.918445	8158.0127	0.028033	2.152	
			45521.0215	0.467254	1109.601	0.012266
54°41'	76055.1518	30.918530	8159.6946	0.028021	2.151	
			45549.0567	0.467637	1111.195	0.012266
54°42'	77910.2636	30.918616	8161.3759	0.028010	2.150	
			45577.1150	0.468022	1112.793	0.012266
54°43'	79765.3806	30.918701	8163.0565	0.027998	2.148	
			45605.1963	0.468406	1114.393	0.012266

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0016	-0.0026	-0.0029

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
54°44'	81620.5027	30.918787	8164.7364	0.027987	2.147	
			45633.3006	0.468792	1115.997	0.012266
54°45'	83475.6299	30.918872	8166.4156	0.027975	2.146	
			45661.4281	0.469178	1117.603	0.012266
54°46'	85330.7622	30.918958	8168.0941	0.027964	2.144	
			45689.5788	0.469564	1119.213	0.012266
54°47'	87185.8997	30.919043	8169.7719	0.027952	2.143	
			45717.7526	0.469951	1120.825	0.012266
54°48'	89041.0423	30.919129	8171.4490	0.027940	2.142	
			45745.9497	0.470339	1122.441	0.012266
54°49'	90896.1901	30.919214	8173.1254	0.027929	2.140	
			45774.1700	0.470727	1124.060	0.012266
54°50'	92751.3429	30.919300	8174.8011	0.027917	2.139	
			45802.4137	0.471116	1125.682	0.012266
54°51'	94606.5009	30.919385	8176.4762	0.027906	2.138	
			45830.6806	0.471505	1127.306	0.012266
54°52'	96461.6640	30.919471	8178.1505	0.027894	2.136	
			45858.9709	0.471895	1128.934	0.012266
54°53'	98316.8323	30.919556	8179.8242	0.027883	2.135	
			45887.2846	0.472285	1130.565	0.012266
54°54'	100172.0056	30.919641	8181.4972	0.027871	2.134	
			45915.6217	0.472676	1132.199	0.012266
54°55'	102027.1841	30.919727	8183.1695	0.027860	2.132	
			45943.9822	0.473068	1133.836	0.012265
54°56'	103882.3677	30.919812	8184.8410	0.027848	2.131	
			45972.3663	0.473460	1135.476	0.012265
54°57'	105737.5564	30.919897	8186.5119	0.027837	2.130	
			46000.7739	0.473852	1137.120	0.012265
54°58'	107592.7503	30.919983	8188.1821	0.027825	2.128	
			46029.2050	0.474246	1138.766	0.012265
54°59'	109447.9492	30.920068	8189.8516	0.027814	2.127	
			46057.6598	0.474639	1140.416	0.012265
55° 0'	111303.1533	30.920153	8191.5204	0.027802	2.125	
			46086.1382	0.475034	1142.068	0.012265
55° 1'	113158.3625	30.920238	8193.1886	0.027790	2.124	
			46114.6402	0.475429	1143.724	0.012265
55° 2'	115013.5768	30.920324	8194.8560	0.027779	2.123	
			46143.1659	0.475824	1145.383	0.012265
55° 3'	116868.7962	30.920409	8196.5227	0.027767	2.121	
			46171.7154	0.476220	1147.045	0.012265
55° 4'	118724.0207	30.920494	8198.1888	0.027756	2.120	
			46200.2886	0.476617	1148.710	0.012265
55° 5'	120579.2504	30.920579	8199.8541	0.027744	2.119	
			46228.8856	0.477014	1150.379	0.012265

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0017	-0.0027	-0.0030

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
55° 6'	122434.4851	30.920664	8201.5188	0.027733	2.117	
			46257.5065	0.477412	1152.050	0.012265
55° 7'	124289.7250	30.920749	8203.1827	0.027721	2.116	
			46286.1512	0.477811	1153.725	0.012265
55° 8'	126144.9699	30.920835	8204.8460	0.027709	2.115	
			46314.8199	0.478210	1155.403	0.012265
55° 9'	128000.2200	30.920920	8206.5085	0.027698	2.113	
			46343.5125	0.478609	1157.084	0.012265
55°10'	129855.4752	30.921005	8208.1704	0.027686	2.112	
			46372.2290	0.479009	1158.768	0.012265
55°11'	131710.7355	30.921090	8209.8316	0.027675	2.111	
			46400.9696	0.479410	1160.456	0.012265
55°12'	133566.0008	30.921175	8211.4921	0.027663	2.109	
			46429.7342	0.479812	1162.147	0.012265
55°13'	135421.2713	30.921260	8213.1519	0.027652	2.108	
			46458.5229	0.480213	1163.841	0.012265
55°14'	137276.5469	30.921345	8214.8110	0.027640	2.107	
			46487.3357	0.480616	1165.538	0.012265
55°15'	139131.8276	30.921430	8216.4694	0.027628	2.105	
			46516.1726	0.481019	1167.238	0.012265
55°16'	140987.1134	30.921515	8218.1271	0.027617	2.104	
			46545.0338	0.481423	1168.942	0.012265
55°17'	142842.4043	30.921600	8219.7841	0.027605	2.103	
			46573.9191	0.481827	1170.649	0.012264
55°18'	144697.7003	30.921685	8221.4404	0.027594	2.101	
			46602.8288	0.482232	1172.359	0.012264
55°19'	146553.0013	30.921770	8223.0960	0.027582	2.100	
			46631.7627	0.482637	1174.072	0.012264
55°20'	148408.3075	30.921854	8224.7510	0.027570	2.098	
			46660.7209	0.483043	1175.789	0.012264
55°21'	150263.6188	30.921939	8226.4052	0.027559	2.097	
			46689.7035	0.483450	1177.509	0.012264
55°22'	152118.9351	30.922024	8228.0587	0.027547	2.096	
			46718.7105	0.483857	1179.233	0.012264
55°23'	153974.2566	30.922109	8229.7115	0.027536	2.094	
			46747.7419	0.484265	1180.959	0.012264
55°24'	155829.5831	30.922194	8231.3637	0.027524	2.093	
			46776.7978	0.484674	1182.689	0.012264
55°25'	157684.9148	30.922279	8233.0151	0.027512	2.092	
			46805.8783	0.485083	1184.422	0.012264
55°26'	159540.2515	30.922363	8234.6659	0.027501	2.090	
			46834.9832	0.485492	1186.159	0.012264
55°27'	161395.5933	30.922448	8236.3159	0.027489	2.089	
			46864.1127	0.485902	1187.899	0.012264

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0017	-0.0027	-0.0031

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
55°28'	163250.9402	30.922533	8237.9653	0.027478	2.088	
			46893.2669	0.486313	1189.642	0.012264
55°29'	165106.2922	30.922618	8239.6139	0.027466	2.086	
			46922.4457	0.486725	1191.389	0.012264
55°30'	166961.6492	30.922702	8241.2619	0.027454	2.085	
			46951.6492	0.487137	1193.139	0.012264
55°31'	168817.0114	30.922787	8242.9091	0.027443	2.084	
			46980.8774	0.487549	1194.892	0.012264
55°32'	170672.3786	30.922872	8244.5557	0.027431	2.082	
			47010.1304	0.487963	1196.649	0.012264
55°33'	172527.7509	30.922956	8246.2016	0.027419	2.081	
			47039.4081	0.488377	1198.409	0.012264
55°34'	174383.1283	30.923041	8247.8467	0.027408	2.079	
			47068.7107	0.488791	1200.172	0.012264
55°35'	176238.5107	30.923126	8249.4912	0.027396	2.078	
			47098.0382	0.489206	1201.939	0.012264
55°36'	178093.8983	30.923210	8251.1350	0.027385	2.077	
			47127.3905	0.489622	1203.710	0.012264
55°37'	179949.2909	30.923295	8252.7781	0.027373	2.075	
			47156.7679	0.490038	1205.483	0.012264
55°38'	181804.6886	30.923379	8254.4204	0.027361	2.074	
			47186.1702	0.490455	1207.260	0.012264
55°39'	183660.0913	30.923464	8256.0621	0.027350	2.073	
			47215.5975	0.490873	1209.041	0.012263
55°40'	185515.4992	30.923548	8257.7031	0.027338	2.071	
			47245.0498	0.491291	1210.825	0.012263
55°41'	187370.9121	30.923633	8259.3434	0.027326	2.070	
			47274.5273	0.491710	1212.612	0.012263
55°42'	189226.3300	30.923717	8260.9829	0.027315	2.069	
			47304.0299	0.492129	1214.403	0.012263
55°43'	191081.7531	30.923802	8262.6218	0.027303	2.067	
			47333.5576	0.492549	1216.198	0.012263
55°44'	192937.1812	30.923886	8264.2600	0.027291	2.066	
			47363.1106	0.492970	1217.995	0.012263
55°45'	194792.6144	30.923971	8265.8975	0.027280	2.064	
			47392.6888	0.493391	1219.797	0.012263
55°46'	196648.0526	30.924055	8267.5343	0.027268	2.063	
			47422.2922	0.493813	1221.602	0.012263
55°47'	198503.4960	30.924140	8269.1704	0.027256	2.062	
			47451.9210	0.494236	1223.410	0.012263
55°48'	200358.9443	30.924224	8270.8057	0.027245	2.060	
			47481.5751	0.494659	1225.222	0.012263
55°49'	202214.3978	30.924308	8272.4404	0.027233	2.059	
			47511.2546	0.495082	1227.037	0.012263

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0018	-0.0028	-0.0032

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
55°50'	204069.8563	30.924393	8274.0744	0.027221	2.058	
			47540.9596	0.495507	1228.856	0.012263
55°51'	205925.3198	30.924477	8275.7077	0.027210	2.056	
			47570.6900	0.495932	1230.678	0.012263
55°52'	207780.7884	30.924561	8277.3403	0.027198	2.055	
			47600.4459	0.496358	1232.504	0.012263
55°53'	209636.2621	30.924646	8278.9722	0.027186	2.054	
			47630.2274	0.496784	1234.334	0.012263
55°54'	211491.7408	30.924730	8280.6033	0.027175	2.052	
			47660.0344	0.497211	1236.167	0.012263
55°55'	213347.2246	30.924814	8282.2338	0.027163	2.051	
			47689.8671	0.497638	1238.003	0.012263
55°56'	215202.7135	30.924898	8283.8636	0.027151	2.049	
			47719.7254	0.498067	1239.844	0.012263
55°57'	217058.2074	30.924982	8285.4927	0.027140	2.048	
			47749.6094	0.498495	1241.687	0.012263
55°58'	218913.7063	30.925067	8287.1211	0.027128	2.047	
			47779.5191	0.498925	1243.535	0.012263
55°59'	220769.2103	30.925151	8288.7487	0.027116	2.045	
			47809.4546	0.499355	1245.386	0.012263
56° 0'	222624.7194	30.925235	8290.3757	0.027105	2.044	
			47839.4159	0.499786	1247.240	0.012263
56° 1'	224480.2335	30.925319	8292.0020	0.027093	2.043	
			47869.4031	0.500217	1249.099	0.012263
56° 2'	226335.7526	30.925403	8293.6276	0.027081	2.041	
			47899.4161	0.500649	1250.960	0.012262
56° 3'	228191.2768	30.925487	8295.2524	0.027070	2.040	
			47929.4551	0.501082	1252.826	0.012262
56° 4'	230046.8060	30.925571	8296.8766	0.027058	2.038	
			47959.5200	0.501515	1254.695	0.012262
56° 5'	231902.3403	30.925655	8298.5001	0.027046	2.037	
			47989.6109	0.501949	1256.568	0.012262
56° 6'	233757.8796	30.925739	8300.1229	0.027034	2.036	
			48019.7279	0.502384	1258.444	0.012262
56° 7'	235613.4240	30.925823	8301.7449	0.027023	2.034	
			48049.8709	0.502819	1260.324	0.012262
56° 8'	237468.9734	30.925907	8303.3663	0.027011	2.033	
			48080.0401	0.503255	1262.208	0.012262
56° 9'	239324.5278	30.925991	8304.9869	0.026999	2.032	
			48110.2354	0.503692	1264.096	0.012262
56°10'	241180.0873	30.926075	8306.6069	0.026988	2.030	
			48140.4569	0.504129	1265.987	0.012262
56°11'	243035.6518	30.926159	8308.2261	0.026976	2.029	
			48170.7047	0.504567	1267.882	0.012262

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0018	-0.0029	-0.0033

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
56°12'	244891.2214	30.926243	8309.8447	0.026964	2.027	
			48200.9787	0.505006	1269.781	0.012262
56°13'	246746.7960	30.926327	8311.4625	0.026952	2.026	
			48231.2790	0.505445	1271.683	0.012262
56°14'	248602.3756	30.926411	8313.0797	0.026941	2.025	
			48261.6057	0.505885	1273.589	0.012262
56°15'	250457.9602	30.926495	8314.6961	0.026929	2.023	
			48291.9588	0.506325	1275.499	0.012262
56°16'	252313.5499	30.926579	8316.3119	0.026917	2.022	
			48322.3383	0.506767	1277.412	0.012262
56°17'	254169.1446	30.926662	8317.9269	0.026905	2.021	
			48352.7443	0.507208	1279.330	0.012262
56°18'	256024.7444	30.926746	8319.5412	0.026894	2.019	
			48383.1768	0.507651	1281.251	0.012262
56°19'	257880.3491	30.926830	8321.1548	0.026882	2.018	
			48413.6359	0.508094	1283.176	0.012262
56°20'	259735.9589	30.926914	8322.7678	0.026870	2.016	
			48444.1216	0.508538	1285.105	0.012262
56°21'	261591.5737	30.926997	8324.3800	0.026859	2.015	
			48474.6338	0.508983	1287.037	0.012262
56°22'	263447.1936	30.927081	8325.9915	0.026847	2.014	
			48505.1728	0.509428	1288.974	0.012262
56°23'	265302.8184	30.927165	8327.6023	0.026835	2.012	
			48535.7385	0.509874	1290.914	0.012262
56°24'	267158.4483	30.927248	8329.2124	0.026823	2.011	
			48566.3309	0.510320	1292.858	0.012261
56°25'	269014.0832	30.927332	8330.8218	0.026812	2.009	
			48596.9501	0.510768	1294.806	0.012261
56°26'	270869.7232	30.927416	8332.4305	0.026800	2.008	
			48627.5962	0.511215	1296.757	0.012261
56°27'	272725.3681	30.927499	8334.0385	0.026788	2.007	
			48658.2691	0.511664	1298.713	0.012261
56°28'	274581.0181	30.927583	8335.6458	0.026776	2.005	
			48688.9689	0.512113	1300.672	0.012261
56°29'	276436.6730	30.927666	8337.2523	0.026765	2.004	
			48719.6957	0.512563	1302.636	0.012261
56°30'	278292.3330	30.927750	8338.8582	0.026753	2.003	
			48750.4495	0.513014	1304.603	0.012261
56°31'	280147.9980	30.927834	8340.4634	0.026741	2.001	
			48781.2304	0.513465	1306.574	0.012261
56°32'	282003.6680	30.927917	8342.0678	0.026729	2.000	
			48812.0383	0.513917	1308.549	0.012261
56°33'	283859.3430	30.928001	8343.6716	0.026717	1.998	
			48842.8733	0.514370	1310.528	0.012261

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0019	-0.0030	-0.0034

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
56°34'	285715.0231	30.928084	8345.2747	0.026706	1.997	
			48873.7355	0.514823	1312.511	0.012261
56°35'	287570.7081	30.928167	8346.8770	0.026694	1.996	
			48904.6249	0.515277	1314.498	0.012261
56°36'	289426.3982	30.928251	8348.4786	0.026682	1.994	
			48935.5415	0.515732	1316.488	0.012261
56°37'	291282.0932	30.928334	8350.0796	0.026670	1.993	
			48966.4854	0.516187	1318.483	0.012261
56°38'	293137.7933	30.928418	8351.6798	0.026659	1.991	
			48997.4567	0.516644	1320.482	0.012261
56°39'	294993.4983	30.928501	8353.2793	0.026647	1.990	
			49028.4553	0.517100	1322.484	0.012261
56°40'	296849.2084	30.928584	8354.8781	0.026635	1.989	
			49059.4813	0.517558	1324.491	0.012261
56°41'	298704.9235	30.928668	8356.4762	0.026623	1.987	
			49090.5348	0.518016	1326.502	0.012261
56°42'	300560.6435	30.928751	8358.0736	0.026611	1.986	
			49121.6157	0.518475	1328.516	0.012261
56°43'	302416.3686	30.928834	8359.6703	0.026600	1.985	
			49152.7242	0.518935	1330.535	0.012261
56°44'	304272.0986	30.928918	8361.2663	0.026588	1.983	
			49183.8603	0.519395	1332.558	0.012261
56°45'	306127.8337	30.929001	8362.8616	0.026576	1.982	
			49215.0240	0.519856	1334.585	0.012261
56°46'	307983.5737	30.929084	8364.4561	0.026564	1.980	
			49246.2153	0.520318	1336.615	0.012261
56°47'	309839.3188	30.929167	8366.0500	0.026553	1.979	
			49277.4344	0.520780	1338.650	0.012260
56°48'	311695.0688	30.929250	8367.6431	0.026541	1.978	
			49308.6812	0.521243	1340.689	0.012260
56°49'	313550.8238	30.929334	8369.2356	0.026529	1.976	
			49339.9558	0.521707	1342.732	0.012260
56°50'	315406.5838	30.929417	8370.8273	0.026517	1.975	
			49371.2582	0.522171	1344.779	0.012260
56°51'	317262.3488	30.929500	8372.4183	0.026505	1.973	
			49402.5885	0.522637	1346.830	0.012260
56°52'	319118.1188	30.929583	8374.0087	0.026493	1.972	
			49433.9467	0.523103	1348.886	0.012260
56°53'	320973.8938	30.929666	8375.5983	0.026482	1.971	
			49465.3328	0.523569	1350.945	0.012260
56°54'	322829.6737	30.929749	8377.1872	0.026470	1.969	
			49496.7470	0.524037	1353.009	0.012260
56°55'	324685.4587	30.929832	8378.7754	0.026458	1.968	
			49528.1892	0.524505	1355.076	0.012260

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0020	-0.0031	-0.0035

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
56°56'	326541.2486	30.929915	8380.3628	0.026446	1.966	
			49559.6594	0.524973	1357.148	0.012260
56°57'	328397.0435	30.929998	8381.9496	0.026434	1.965	
			49591.1578	0.525443	1359.224	0.012260
56°58'	330252.8434	30.930081	8383.5357	0.026423	1.964	
			49622.6844	0.525913	1361.304	0.012260
56°59'	332108.6482	30.930164	8385.1210	0.026411	1.962	
			49654.2392	0.526384	1363.389	0.012260
57° 0'	333964.4581	30.930247	8386.7057	0.026399	1.961	
			49685.8223	0.526856	1365.477	0.012260
57° 1'	335820.2729	30.930330	8388.2896	0.026387	1.959	
			49717.4336	0.527328	1367.570	0.012260
57° 2'	337676.0927	30.930413	8389.8728	0.026375	1.958	
			49749.0733	0.527801	1369.667	0.012260
57° 3'	339531.9174	30.930495	8391.4554	0.026363	1.957	
			49780.7414	0.528275	1371.768	0.012260
57° 4'	341387.7471	30.930578	8393.0372	0.026352	1.955	
			49812.4379	0.528750	1373.874	0.012260
57° 5'	343243.5818	30.930661	8394.6183	0.026340	1.954	
			49844.1629	0.529225	1375.983	0.012260
57° 6'	345099.4215	30.930744	8396.1986	0.026328	1.952	
			49875.9164	0.529701	1378.097	0.012260
57° 7'	346955.2662	30.930827	8397.7783	0.026316	1.951	
			49907.6985	0.530178	1380.215	0.012260
57° 8'	348811.1158	30.930909	8399.3573	0.026304	1.950	
			49939.5092	0.530656	1382.338	0.012260
57° 9'	350666.9703	30.930992	8400.9355	0.026292	1.948	
			49971.3485	0.531134	1384.465	0.012260
57°10'	352522.8299	30.931075	8402.5131	0.026281	1.947	
			50003.2166	0.531613	1386.596	0.012259
57°11'	354378.6944	30.931158	8404.0899	0.026269	1.945	
			50035.1133	0.532093	1388.731	0.012259
57°12'	356234.5638	30.931240	8405.6660	0.026257	1.944	
			50067.0389	0.532573	1390.871	0.012259
57°13'	358090.4382	30.931323	8407.2414	0.026245	1.943	
			50098.9933	0.533054	1393.015	0.012259
57°14'	359946.3176	30.931406	8408.8161	0.026233	1.941	
			50130.9765	0.533536	1395.163	0.012259
57°15'	361802.2019	30.931488	8410.3901	0.026221	1.940	
			50162.9887	0.534019	1397.316	0.012259
57°16'	363658.0912	30.931571	8411.9634	0.026209	1.938	
			50195.0298	0.534502	1399.473	0.012259
57°17'	365513.9855	30.931653	8413.5360	0.026198	1.937	
			50227.1000	0.534987	1401.635	0.012259

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0020	-0.0032	-0.0036

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
57°18'	367369.8847	30.931736	8415.1078	0.026186	1.936	
			50259.1992	0.535472	1403.801	0.012259
57°19'	369225.7888	30.931818	8416.6790	0.026174	1.934	
			50291.3275	0.535957	1405.971	0.012259
57°20'	371081.6979	30.931901	8418.2494	0.026162	1.933	
			50323.4849	0.536444	1408.146	0.012259
57°21'	372937.6120	30.931983	8419.8191	0.026150	1.931	
			50355.6715	0.536931	1410.325	0.012259
57°22'	374793.5310	30.932066	8421.3881	0.026138	1.930	
			50387.8874	0.537419	1412.508	0.012259
57°23'	376649.4549	30.932148	8422.9564	0.026126	1.929	
			50420.1325	0.537908	1414.696	0.012259
57°24'	378505.3838	30.932231	8424.5240	0.026114	1.927	
			50452.4070	0.538397	1416.889	0.012259
57°25'	380361.3177	30.932313	8426.0908	0.026103	1.926	
			50484.7108	0.538887	1419.086	0.012259
57°26'	382217.2565	30.932395	8427.6570	0.026091	1.924	
			50517.0440	0.539378	1421.287	0.012259
57°27'	384073.2002	30.932478	8429.2224	0.026079	1.923	
			50549.4067	0.539870	1423.493	0.012259
57°28'	385929.1488	30.932560	8430.7871	0.026067	1.922	
			50581.7989	0.540363	1425.703	0.012259
57°29'	387785.1025	30.932642	8432.3512	0.026055	1.920	
			50614.2207	0.540856	1427.918	0.012259
57°30'	389641.0610	30.932725	8433.9145	0.026043	1.919	
			50646.6720	0.541350	1430.138	0.012259
57°31'	391497.0245	30.932807	8435.4770	0.026031	1.917	
			50679.1530	0.541845	1432.362	0.012259
57°32'	393352.9929	30.932889	8437.0389	0.026019	1.916	
			50711.6637	0.542340	1434.590	0.012258
57°33'	395208.9662	30.932971	8438.6001	0.026007	1.915	
			50744.2041	0.542837	1436.823	0.012258
57°34'	397064.9445	30.933054	8440.1605	0.025995	1.913	
			50776.7744	0.543334	1439.061	0.012258
57°35'	398920.9277	30.933136	8441.7202	0.025984	1.912	
			50809.3744	0.543832	1441.303	0.012258
57°36'	400776.9159	30.933218	8443.2793	0.025972	1.910	
			50842.0043	0.544331	1443.550	0.012258
57°37'	402632.9090	30.933300	8444.8376	0.025960	1.909	
			50874.6641	0.544830	1445.802	0.012258
57°38'	404488.9070	30.933382	8446.3951	0.025948	1.907	
			50907.3539	0.545330	1448.058	0.012258
57°39'	406344.9099	30.933464	8447.9520	0.025936	1.906	
			50940.0738	0.545831	1450.318	0.012258

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0021	-0.0034	-0.0038

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
57°40'	408200.9177	30.933546	8449.5082	0.025924	1.905	
			50972.8236	0.546333	1452.584	0.012258
57°41'	410056.9305	30.933628	8451.0636	0.025912	1.903	
			51005.6036	0.546836	1454.854	0.012258
57°42'	411912.9482	30.933710	8452.6183	0.025900	1.902	
			51038.4138	0.547339	1457.128	0.012258
57°43'	413768.9708	30.933792	8454.1723	0.025888	1.900	
			51071.2541	0.547843	1459.408	0.012258
57°44'	415624.9984	30.933874	8455.7256	0.025876	1.899	
			51104.1247	0.548348	1461.692	0.012258
57°45'	417481.0308	30.933956	8457.2782	0.025864	1.898	
			51137.0256	0.548854	1463.981	0.012258
57°46'	419337.0682	30.934038	8458.8301	0.025852	1.896	
			51169.9569	0.549361	1466.274	0.012258
57°47'	421193.1105	30.934120	8460.3812	0.025841	1.895	
			51202.9185	0.549868	1468.572	0.012258
57°48'	423049.1577	30.934202	8461.9317	0.025829	1.893	
			51235.9106	0.550376	1470.875	0.012258
57°49'	424905.2098	30.934284	8463.4814	0.025817	1.892	
			51268.9332	0.550885	1473.183	0.012258
57°50'	426761.2668	30.934366	8465.0304	0.025805	1.891	
			51301.9863	0.551395	1475.495	0.012258
57°51'	428617.3288	30.934447	8466.5787	0.025793	1.889	
			51335.0700	0.551906	1477.813	0.012258
57°52'	430473.3956	30.934529	8468.1262	0.025781	1.888	
			51368.1843	0.552417	1480.135	0.012258
57°53'	432329.4674	30.934611	8469.6731	0.025769	1.886	
			51401.3293	0.552929	1482.462	0.012258
57°54'	434185.5440	30.934693	8471.2192	0.025757	1.885	
			51434.5051	0.553442	1484.793	0.012258
57°55'	436041.6256	30.934774	8472.7646	0.025745	1.883	
			51467.7116	0.553956	1487.130	0.012258
57°56'	437897.7121	30.934856	8474.3093	0.025733	1.882	
			51500.9490	0.554470	1489.471	0.012257
57°57'	439753.8034	30.934938	8475.8533	0.025721	1.881	
			51534.2172	0.554986	1491.817	0.012257
57°58'	441609.8997	30.935019	8477.3966	0.025709	1.879	
			51567.5163	0.555502	1494.168	0.012257
57°59'	443466.0009	30.935101	8478.9391	0.025697	1.878	
			51600.8465	0.556019	1496.524	0.012257
58° 0'	445322.1069	30.935183	8480.4810	0.025685	1.876	
			51634.2076	0.556537	1498.885	0.012257
58° 1'	447178.2179	30.935264	8482.0221	0.025673	1.875	
			51667.5998	0.557056	1501.251	0.012257

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0022	-0.0035	-0.0039

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
58° 2'	449034.3338	30.935346	8483.5625	0.025661	1.874	
			51701.0232	0.557575	1503.621	0.012257
58° 3'	450890.4545	30.935427	8485.1021	0.025649	1.872	
			51734.4777	0.558095	1505.997	0.012257
58° 4'	452746.5802	30.935509	8486.6411	0.025637	1.871	
			51767.9634	0.558617	1508.377	0.012257
58° 5'	454602.7107	30.935590	8488.1794	0.025625	1.869	
			51801.4804	0.559139	1510.763	0.012257
58° 6'	456458.8461	30.935672	8489.7169	0.025613	1.868	
			51835.0287	0.559661	1513.153	0.012257
58° 7'	458314.9864	30.935753	8491.2537	0.025601	1.867	
			51868.6084	0.560185	1515.549	0.012257
58° 8'	460171.1316	30.935835	8492.7898	0.025589	1.865	
			51902.2195	0.560709	1517.949	0.012257
58° 9'	462027.2817	30.935916	8494.3251	0.025577	1.864	
			51935.8620	0.561235	1520.355	0.012257
58°10'	463883.4367	30.935998	8495.8598	0.025566	1.862	
			51969.5361	0.561761	1522.765	0.012257
58°11'	465739.5965	30.936079	8497.3937	0.025554	1.861	
			52003.2418	0.562288	1525.180	0.012257
58°12'	467595.7613	30.936160	8498.9269	0.025542	1.859	
			52036.9790	0.562816	1527.601	0.012257
58°13'	469451.9309	30.936242	8500.4594	0.025530	1.858	
			52070.7480	0.563344	1530.027	0.012257
58°14'	471308.1054	30.936323	8501.9912	0.025518	1.857	
			52104.5486	0.563874	1532.457	0.012257
58°15'	473164.2848	30.936404	8503.5222	0.025506	1.855	
			52138.3810	0.564404	1534.893	0.012257
58°16'	475020.4690	30.936485	8505.0526	0.025494	1.854	
			52172.2453	0.564935	1537.334	0.012257
58°17'	476876.6581	30.936567	8506.5822	0.025482	1.852	
			52206.1414	0.565467	1539.780	0.012257
58°18'	478732.8521	30.936648	8508.1111	0.025470	1.851	
			52240.0694	0.566000	1542.231	0.012257
58°19'	480589.0510	30.936729	8509.6393	0.025458	1.849	
			52274.0294	0.566534	1544.687	0.012256
58°20'	482445.2547	30.936810	8511.1667	0.025446	1.848	
			52308.0214	0.567068	1547.148	0.012256
58°21'	484301.4633	30.936891	8512.6935	0.025434	1.847	
			52342.0455	0.567604	1549.615	0.012256
58°22'	486157.6768	30.936972	8514.2195	0.025422	1.845	
			52376.1017	0.568140	1552.087	0.012256
58°23'	488013.8951	30.937053	8515.7448	0.025410	1.844	
			52410.1901	0.568677	1554.564	0.012256

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0022	-0.0036	-0.0040

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
58°24'	489870.1183	30.937134	8517.2693	0.025398	1.842	
			52444.3108	0.569215	1557.046	0.012256
58°25'	491726.3464	30.937215	8518.7932	0.025386	1.841	
			52478.4637	0.569754	1559.533	0.012256
58°26'	493582.5793	30.937296	8520.3163	0.025374	1.840	
			52512.6489	0.570294	1562.026	0.012256
58°27'	495438.8171	30.937377	8521.8387	0.025361	1.838	
			52546.8665	0.570834	1564.523	0.012256
58°28'	497295.0598	30.937458	8523.3604	0.025349	1.837	
			52581.1166	0.571376	1567.027	0.012256
58°29'	499151.3073	30.937539	8524.8814	0.025337	1.835	
			52615.3991	0.571918	1569.535	0.012256
58°30'	501007.5596	30.937620	8526.4016	0.025325	1.834	
			52649.7142	0.572461	1572.049	0.012256
58°31'	502863.8168	30.937701	8527.9212	0.025313	1.832	
			52684.0618	0.573005	1574.568	0.012256
58°32'	504720.0789	30.937782	8529.4400	0.025301	1.831	
			52718.4421	0.573550	1577.092	0.012256
58°33'	506576.3458	30.937863	8530.9581	0.025289	1.830	
			52752.8551	0.574096	1579.621	0.012256
58°34'	508432.6176	30.937944	8532.4754	0.025277	1.828	
			52787.3009	0.574643	1582.156	0.012256
58°35'	510288.8942	30.938024	8533.9921	0.025265	1.827	
			52821.7794	0.575190	1584.697	0.012256
58°36'	512145.1757	30.938105	8535.5080	0.025253	1.825	
			52856.2908	0.575738	1587.242	0.012256
58°37'	514001.4620	30.938186	8537.0232	0.025241	1.824	
			52890.8351	0.576288	1589.794	0.012256
58°38'	515857.7532	30.938267	8538.5376	0.025229	1.822	
			52925.4124	0.576838	1592.350	0.012256
58°39'	517714.0492	30.938347	8540.0514	0.025217	1.821	
			52960.0227	0.577389	1594.912	0.012256
58°40'	519570.3500	30.938428	8541.5644	0.025205	1.820	
			52994.6660	0.577941	1597.479	0.012256
58°41'	521426.6557	30.938509	8543.0767	0.025193	1.818	
			53029.3425	0.578494	1600.052	0.012256
58°42'	523282.9662	30.938589	8544.5883	0.025181	1.817	
			53064.0521	0.579048	1602.630	0.012255
58°43'	525139.2816	30.938670	8546.0992	0.025169	1.815	
			53098.7950	0.579602	1605.214	0.012255
58°44'	526995.6018	30.938751	8547.6093	0.025157	1.814	
			53133.5711	0.580158	1607.803	0.012255
58°45'	528851.9268	30.938831	8549.1187	0.025145	1.812	
			53168.3806	0.580714	1610.398	0.012255

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0023	-0.0037	-0.0042

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
58°46'	530708.2567	30.938912	8550.6274	0.025133	1.811	
			53203.2235	0.581272	1612.998	0.012255
58°47'	532564.5914	30.938992	8552.1354	0.025121	1.810	
			53238.0998	0.581830	1615.604	0.012255
58°48'	534420.9309	30.939073	8553.6426	0.025109	1.808	
			53273.0096	0.582389	1618.216	0.012255
58°49'	536277.2752	30.939153	8555.1491	0.025097	1.807	
			53307.9529	0.582949	1620.833	0.012255
58°50'	538133.6244	30.939233	8556.6549	0.025084	1.805	
			53342.9299	0.583510	1623.455	0.012255
58°51'	539989.9784	30.939314	8558.1600	0.025072	1.804	
			53377.9405	0.584072	1626.083	0.012255
58°52'	541846.3373	30.939394	8559.6643	0.025060	1.802	
			53412.9848	0.584635	1628.717	0.012255
58°53'	543702.7009	30.939475	8561.1679	0.025048	1.801	
			53448.0629	0.585198	1631.356	0.012255
58°54'	545559.0694	30.939555	8562.6708	0.025036	1.800	
			53483.1748	0.585763	1634.001	0.012255
58°55'	547415.4427	30.939635	8564.1730	0.025024	1.798	
			53518.3206	0.586329	1636.652	0.012255
58°56'	549271.8208	30.939716	8565.6745	0.025012	1.797	
			53553.5003	0.586895	1639.308	0.012255
58°57'	551128.2038	30.939796	8567.1752	0.025000	1.795	
			53588.7140	0.587462	1641.970	0.012255
58°58'	552984.5915	30.939876	8568.6752	0.024988	1.794	
			53623.9617	0.588031	1644.638	0.012255
58°59'	554840.9841	30.939956	8570.1745	0.024976	1.792	
			53659.2436	0.588600	1647.311	0.012255
59° 0'	556697.3815	30.940036	8571.6730	0.024964	1.791	
			53694.5596	0.589170	1649.990	0.012255
59° 1'	558553.7837	30.940117	8573.1708	0.024952	1.790	
			53729.9098	0.589741	1652.675	0.012255
59° 2'	560410.1907	30.940197	8574.6679	0.024940	1.788	
			53765.2943	0.590313	1655.366	0.012255
59° 3'	562266.6025	30.940277	8576.1643	0.024927	1.787	
			53800.7131	0.590886	1658.062	0.012255
59° 4'	564123.0191	30.940357	8577.6599	0.024915	1.785	
			53836.1662	0.591460	1660.765	0.012255
59° 5'	565979.4405	30.940437	8579.1549	0.024903	1.784	
			53871.6538	0.592035	1663.473	0.012255
59° 6'	567835.8667	30.940517	8580.6491	0.024891	1.782	
			53907.1759	0.592611	1666.186	0.012254
59° 7'	569692.2977	30.940597	8582.1425	0.024879	1.781	
			53942.7326	0.593187	1668.906	0.012254

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0024	-0.0039	-0.0043

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
59° 8'	571548.7336	30.940677	8583.6353	0.024867	1.780	
			53978.3238	0.593765	1671.632	0.012254
59° 9'	573405.1742	30.940757	8585.1273	0.024855	1.778	
			54013.9497	0.594344	1674.363	0.012254
59°10'	575261.6196	30.940837	8586.6186	0.024843	1.777	
			54049.6103	0.594923	1677.100	0.012254
59°11'	577118.0699	30.940917	8588.1091	0.024831	1.775	
			54085.3057	0.595504	1679.844	0.012254
59°12'	578974.5249	30.940997	8589.5990	0.024818	1.774	
			54121.0359	0.596085	1682.593	0.012254
59°13'	580830.9847	30.941077	8591.0881	0.024806	1.772	
			54156.8010	0.596667	1685.348	0.012254
59°14'	582687.4493	30.941157	8592.5765	0.024794	1.771	
			54192.6010	0.597251	1688.109	0.012254
59°15'	584543.9187	30.941236	8594.0641	0.024782	1.770	
			54228.4361	0.597835	1690.876	0.012254
59°16'	586400.3929	30.941316	8595.5510	0.024770	1.768	
			54264.3062	0.598420	1693.649	0.012254
59°17'	588256.8718	30.941396	8597.0372	0.024758	1.767	
			54300.2114	0.599006	1696.428	0.012254
59°18'	590113.3556	30.941476	8598.5227	0.024746	1.765	
			54336.1518	0.599594	1699.213	0.012254
59°19'	591969.8441	30.941555	8600.0075	0.024734	1.764	
			54372.1274	0.600182	1702.004	0.012254
59°20'	593826.3375	30.941635	8601.4915	0.024721	1.762	
			54408.1383	0.600771	1704.801	0.012254
59°21'	595682.8356	30.941715	8602.9748	0.024709	1.761	
			54444.1846	0.601361	1707.604	0.012254
59°22'	597539.3385	30.941794	8604.4573	0.024697	1.759	
			54480.2662	0.601952	1710.414	0.012254
59°23'	599395.8461	30.941874	8605.9392	0.024685	1.758	
			54516.3834	0.602544	1713.229	0.012254
59°24'	601252.3586	30.941954	8607.4203	0.024673	1.757	
			54552.5360	0.603137	1716.050	0.012254
59°25'	603108.8758	30.942033	8608.9006	0.024661	1.755	
			54588.7242	0.603731	1718.878	0.012254
59°26'	604965.3978	30.942113	8610.3803	0.024649	1.754	
			54624.9481	0.604326	1721.712	0.012254
59°27'	606821.9246	30.942192	8611.8592	0.024637	1.752	
			54661.2077	0.604922	1724.552	0.012254
59°28'	608678.4561	30.942272	8613.3374	0.024624	1.751	
			54697.5030	0.605519	1727.398	0.012254
59°29'	610534.9924	30.942351	8614.8149	0.024612	1.749	
			54733.8341	0.606117	1730.250	0.012254

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0025	-0.0040	-0.0045

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
59°30'	612391.5335	30.942431	8616.2916	0.024600	1.748	
			54770.2011	0.606716	1733.109	0.012253
59°31'	614248.0793	30.942510	8617.7676	0.024588	1.747	
			54806.6041	0.607316	1735.973	0.012253
59°32'	616104.6299	30.942590	8619.2429	0.024576	1.745	
			54843.0430	0.607917	1738.844	0.012253
59°33'	617961.1853	30.942669	8620.7174	0.024564	1.744	
			54879.5180	0.608519	1741.722	0.012253
59°34'	619817.7454	30.942748	8622.1912	0.024551	1.742	
			54916.0291	0.609121	1744.605	0.012253
59°35'	621674.3103	30.942828	8623.6643	0.024539	1.741	
			54952.5764	0.609725	1747.495	0.012253
59°36'	623530.8800	30.942907	8625.1367	0.024527	1.739	
			54989.1600	0.610330	1750.391	0.012253
59°37'	625387.4544	30.942986	8626.6083	0.024515	1.738	
			55025.7798	0.610936	1753.294	0.012253
59°38'	627244.0336	30.943065	8628.0792	0.024503	1.737	
			55062.4359	0.611543	1756.203	0.012253
59°39'	629100.6175	30.943145	8629.5494	0.024491	1.735	
			55099.1285	0.612151	1759.118	0.012253
59°40'	630957.2062	30.943224	8631.0188	0.024478	1.734	
			55135.8576	0.612760	1762.040	0.012253
59°41'	632813.7996	30.943303	8632.4875	0.024466	1.732	
			55172.6232	0.613370	1764.968	0.012253
59°42'	634670.3978	30.943382	8633.9555	0.024454	1.731	
			55209.4254	0.613981	1767.902	0.012253
59°43'	636527.0007	30.943461	8635.4228	0.024442	1.729	
			55246.2642	0.614593	1770.843	0.012253
59°44'	638383.6084	30.943540	8636.8893	0.024430	1.728	
			55283.1398	0.615206	1773.790	0.012253
59°45'	640240.2208	30.943619	8638.3551	0.024418	1.726	
			55320.0521	0.615820	1776.744	0.012253
59°46'	642096.8379	30.943698	8639.8201	0.024405	1.725	
			55357.0013	0.616435	1779.705	0.012253
59°47'	643953.4598	30.943777	8641.2844	0.024393	1.724	
			55393.9874	0.617051	1782.671	0.012253
59°48'	645810.0865	30.943856	8642.7480	0.024381	1.722	
			55431.0105	0.617668	1785.645	0.012253
59°49'	647666.7179	30.943935	8644.2109	0.024369	1.721	
			55468.0705	0.618286	1788.625	0.012253
59°50'	649523.3540	30.944014	8645.6730	0.024357	1.719	
			55505.1677	0.618905	1791.611	0.012253
59°51'	651379.9948	30.944093	8647.1344	0.024344	1.718	
			55542.3020	0.619526	1794.604	0.012253

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0026	-0.0041	-0.0047

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
59°52'	653236.6404	30.944172	8648.5951	0.024332	1.716	
			55579.4736	0.620147	1797.604	0.012253
59°53'	655093.2908	30.944251	8650.0550	0.024320	1.715	
			55616.6824	0.620769	1800.611	0.012252
59°54'	656949.9458	30.944330	8651.5142	0.024308	1.714	
			55653.9285	0.621392	1803.623	0.012252
59°55'	658806.6056	30.944409	8652.9727	0.024296	1.712	
			55691.2120	0.622017	1806.643	0.012252
59°56'	660663.2701	30.944487	8654.4304	0.024283	1.711	
			55728.5330	0.622642	1809.669	0.012252
59°57'	662519.9393	30.944566	8655.8874	0.024271	1.709	
			55765.8916	0.623269	1812.702	0.012252
59°58'	664376.6133	30.944645	8657.3437	0.024259	1.708	
			55803.2877	0.623896	1815.742	0.012252
59°59'	666233.2920	30.944724	8658.7992	0.024247	1.706	
			55840.7215	0.624525	1818.789	0.012252
60° 0'	668089.9754	30.944802	8660.2540	0.024235	1.705	
			55878.1929	0.625154	1821.842	0.012252
60° 1'	669946.6635	30.944881	8661.7081	0.024222	1.703	
			55915.7022	0.625785	1824.902	0.012252
60° 2'	671803.3564	30.944959	8663.1615	0.024210	1.702	
			55953.2493	0.626417	1827.969	0.012252
60° 3'	673660.0540	30.945038	8664.6141	0.024198	1.701	
			55990.8343	0.627050	1831.042	0.012252
60° 4'	675516.7562	30.945117	8666.0659	0.024186	1.699	
			56028.4573	0.627683	1834.123	0.012252
60° 5'	677373.4632	30.945195	8667.5171	0.024173	1.698	
			56066.1183	0.628318	1837.210	0.012252
60° 6'	679230.1749	30.945274	8668.9675	0.024161	1.696	
			56103.8174	0.628954	1840.304	0.012252
60° 7'	681086.8914	30.945352	8670.4172	0.024149	1.695	
			56141.5547	0.629592	1843.405	0.012252
60° 8'	682943.6125	30.945431	8671.8661	0.024137	1.693	
			56179.3301	0.630230	1846.513	0.012252
60° 9'	684800.3383	30.945509	8673.3143	0.024125	1.692	
			56217.1439	0.630869	1849.628	0.012252
60°10'	686657.0689	30.945587	8674.7618	0.024112	1.690	
			56254.9961	0.631509	1852.750	0.012252
60°11'	688513.8041	30.945666	8676.2085	0.024100	1.689	
			56292.8866	0.632151	1855.878	0.012252
60°12'	690370.5441	30.945744	8677.6545	0.024088	1.688	
			56330.8157	0.632793	1859.014	0.012252
60°13'	692227.2887	30.945823	8679.0998	0.024076	1.686	
			56368.7833	0.633437	1862.157	0.012252

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0027	-0.0043	-0.0048

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
60°14'	694084.0381	30.945901	8680.5443	0.024063	1.685	
			56406.7895	0.634081	1865.307	0.012252
60°15'	695940.7921	30.945979	8681.9881	0.024051	1.683	
			56444.8343	0.634727	1868.464	0.012252
60°16'	697797.5509	30.946057	8683.4312	0.024039	1.682	
			56482.9180	0.635374	1871.627	0.012252
60°17'	699654.3143	30.946136	8684.8735	0.024027	1.680	
			56521.0404	0.636022	1874.798	0.012252
60°18'	701511.0825	30.946214	8686.3151	0.024014	1.679	
			56559.2017	0.636671	1877.976	0.012251
60°19'	703367.8553	30.946292	8687.7560	0.024002	1.677	
			56597.4020	0.637321	1881.162	0.012251
60°20'	705224.6328	30.946370	8689.1961	0.023990	1.676	
			56635.6413	0.637972	1884.354	0.012251
60°21'	707081.4150	30.946448	8690.6355	0.023978	1.675	
			56673.9196	0.638625	1887.553	0.012251
60°22'	708938.2019	30.946526	8692.0742	0.023965	1.673	
			56712.2371	0.639278	1890.760	0.012251
60°23'	710794.9935	30.946604	8693.5121	0.023953	1.672	
			56750.5938	0.639933	1893.974	0.012251
60°24'	712651.7898	30.946682	8694.9493	0.023941	1.670	
			56788.9898	0.640589	1897.195	0.012251
60°25'	714508.5907	30.946760	8696.3857	0.023929	1.669	
			56827.4251	0.641245	1900.423	0.012251
60°26'	716365.3963	30.946838	8697.8215	0.023916	1.667	
			56865.8998	0.641903	1903.659	0.012251
60°27'	718222.2066	30.946916	8699.2564	0.023904	1.666	
			56904.4140	0.642563	1906.902	0.012251
60°28'	720079.0216	30.946994	8700.6907	0.023892	1.664	
			56942.9678	0.643223	1910.152	0.012251
60°29'	721935.8413	30.947072	8702.1242	0.023880	1.663	
			56981.5612	0.643884	1913.409	0.012251
60°30'	723792.6656	30.947150	8703.5570	0.023867	1.662	
			57020.1942	0.644546	1916.674	0.012251
60°31'	725649.4946	30.947228	8704.9890	0.023855	1.660	
			57058.8670	0.645210	1919.946	0.012251
60°32'	727506.3283	30.947306	8706.4203	0.023843	1.659	
			57097.5796	0.645875	1923.226	0.012251
60°33'	729363.1667	30.947384	8707.8509	0.023830	1.657	
			57136.3321	0.646541	1926.513	0.012251
60°34'	731220.0097	30.947461	8709.2807	0.023818	1.656	
			57175.1245	0.647208	1929.808	0.012251
60°35'	733076.8574	30.947539	8710.7098	0.023806	1.654	
			57213.9570	0.647876	1933.109	0.012251

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0028	-0.0045	-0.0050

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
60°36'	734933.7097	30.947617	8712.1381	0.023794	1.653	
			57252.8295	0.648545	1936.419	0.012251
60°37'	736790.5667	30.947695	8713.5657	0.023781	1.652	
			57291.7422	0.649216	1939.736	0.012251
60°38'	738647.4284	30.947772	8714.9926	0.023769	1.650	
			57330.6952	0.649887	1943.060	0.012251
60°39'	740504.2947	30.947850	8716.4187	0.023757	1.649	
			57369.6884	0.650560	1946.392	0.012251
60°40'	742361.1657	30.947927	8717.8441	0.023744	1.647	
			57408.7220	0.651234	1949.731	0.012251
60°41'	744218.0414	30.948005	8719.2688	0.023732	1.646	
			57447.7960	0.651909	1953.078	0.012251
60°42'	746074.9217	30.948083	8720.6927	0.023720	1.644	
			57486.9105	0.652585	1956.433	0.012250
60°43'	747931.8066	30.948160	8722.1159	0.023707	1.643	
			57526.0656	0.653262	1959.795	0.012250
60°44'	749788.6962	30.948238	8723.5384	0.023695	1.641	
			57565.2614	0.653941	1963.165	0.012250
60°45'	751645.5905	30.948315	8724.9601	0.023683	1.640	
			57604.4978	0.654621	1966.543	0.012250
60°46'	753502.4894	30.948393	8726.3810	0.023671	1.639	
			57643.7751	0.655302	1969.928	0.012250
60°47'	755359.3929	30.948470	8727.8013	0.023658	1.637	
			57683.0932	0.655984	1973.321	0.012250
60°48'	757216.3011	30.948547	8729.2208	0.023646	1.636	
			57722.4522	0.656667	1976.721	0.012250
60°49'	759073.2140	30.948625	8730.6395	0.023634	1.634	
			57761.8522	0.657351	1980.130	0.012250
60°50'	760930.1315	30.948702	8732.0575	0.023621	1.633	
			57801.2933	0.658037	1983.546	0.012250
60°51'	762787.0536	30.948779	8733.4748	0.023609	1.631	
			57840.7755	0.658724	1986.970	0.012250
60°52'	764643.9803	30.948857	8734.8914	0.023597	1.630	
			57880.2989	0.659412	1990.402	0.012250
60°53'	766500.9117	30.948934	8736.3072	0.023584	1.628	
			57919.8636	0.660101	1993.842	0.012250
60°54'	768357.8478	30.949011	8737.7222	0.023572	1.627	
			57959.4696	0.660791	1997.289	0.012250
60°55'	770214.7884	30.949088	8739.1366	0.023560	1.625	
			57999.1171	0.661483	2000.744	0.012250
60°56'	772071.7337	30.949165	8740.5501	0.023547	1.624	
			58038.8061	0.662175	2004.208	0.012250
60°57'	773928.6837	30.949243	8741.9630	0.023535	1.623	
			58078.5366	0.662869	2007.679	0.012250

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0029	-0.0046	-0.0052

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
60°58'	775785.6382	30.949320	8743.3751	0.023523	1.621	
			58118.3087	0.663565	2011.158	0.012250
60°59'	777642.5974	30.949397	8744.7864	0.023510	1.620	
			58158.1226	0.664261	2014.645	0.012250
61° 0'	779499.5612	30.949474	8746.1971	0.023498	1.618	
			58197.9783	0.664958	2018.141	0.012250
61° 1'	781356.5296	30.949551	8747.6070	0.023486	1.617	
			58237.8758	0.665657	2021.644	0.012250
61° 2'	783213.5027	30.949628	8749.0161	0.023473	1.615	
			58277.8152	0.666357	2025.155	0.012250
61° 3'	785070.4804	30.949705	8750.4245	0.023461	1.614	
			58317.7967	0.667058	2028.674	0.012250
61° 4'	786927.4627	30.949782	8751.8322	0.023449	1.612	
			58357.8202	0.667761	2032.202	0.012250
61° 5'	788784.4496	30.949859	8753.2391	0.023436	1.611	
			58397.8858	0.668465	2035.737	0.012250
61° 6'	790641.4411	30.949936	8754.6453	0.023424	1.610	
			58437.9937	0.669169	2039.281	0.012249
61° 7'	792498.4372	30.950013	8756.0507	0.023412	1.608	
			58478.1439	0.669876	2042.833	0.012249
61° 8'	794355.4380	30.950089	8757.4554	0.023399	1.607	
			58518.3364	0.670583	2046.393	0.012249
61° 9'	796212.4434	30.950166	8758.8594	0.023387	1.605	
			58558.5714	0.671292	2049.961	0.012249
61°10'	798069.4533	30.950243	8760.2626	0.023375	1.604	
			58598.8489	0.672001	2053.537	0.012249
61°11'	799926.4679	30.950320	8761.6651	0.023362	1.602	
			58639.1690	0.672712	2057.122	0.012249
61°12'	801783.4871	30.950396	8763.0668	0.023350	1.601	
			58679.5317	0.673425	2060.715	0.012249
61°13'	803640.5109	30.950473	8764.4678	0.023338	1.599	
			58719.9372	0.674138	2064.316	0.012249
61°14'	805497.5393	30.950550	8765.8680	0.023325	1.598	
			58760.3855	0.674853	2067.926	0.012249
61°15'	807354.5722	30.950626	8767.2676	0.023313	1.597	
			58800.8767	0.675569	2071.544	0.012249
61°16'	809211.6098	30.950703	8768.6663	0.023300	1.595	
			58841.4108	0.676287	2075.170	0.012249
61°17'	811068.6520	30.950780	8770.0644	0.023288	1.594	
			58881.9880	0.677005	2078.805	0.012249
61°18'	812925.6988	30.950856	8771.4616	0.023276	1.592	
			58922.6083	0.677725	2082.448	0.012249
61°19'	814782.7502	30.950933	8772.8582	0.023263	1.591	
			58963.2718	0.678446	2086.100	0.012249

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0030	-0.0048	-0.0054

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
61°20'	816639.8061	30.951009	8774.2540	0.023251	1.589	
			59003.9786	0.679168	2089.760	0.012249
61°21'	818496.8667	30.951086	8775.6490	0.023239	1.588	
			59044.7287	0.679892	2093.429	0.012249
61°22'	820353.9318	30.951162	8777.0434	0.023226	1.586	
			59085.5222	0.680617	2097.106	0.012249
61°23'	822211.0016	30.951239	8778.4369	0.023214	1.585	
			59126.3592	0.681343	2100.792	0.012249
61°24'	824068.0759	30.951315	8779.8298	0.023201	1.584	
			59167.2398	0.682071	2104.486	0.012249
61°25'	825925.1548	30.951391	8781.2218	0.023189	1.582	
			59208.1640	0.682799	2108.189	0.012249
61°26'	827782.2382	30.951468	8782.6132	0.023177	1.581	
			59249.1320	0.683529	2111.900	0.012249
61°27'	829639.3263	30.951544	8784.0038	0.023164	1.579	
			59290.1438	0.684261	2115.620	0.012249
61°28'	831496.4189	30.951620	8785.3936	0.023152	1.578	
			59331.1994	0.684993	2119.349	0.012249
61°29'	833353.5162	30.951696	8786.7828	0.023140	1.576	
			59372.2990	0.685727	2123.087	0.012249
61°30'	835210.6179	30.951773	8788.1711	0.023127	1.575	
			59413.4426	0.686462	2126.833	0.012249
61°31'	837067.7243	30.951849	8789.5588	0.023115	1.573	
			59454.6304	0.687199	2130.588	0.012248
61°32'	838924.8352	30.951925	8790.9456	0.023102	1.572	
			59495.8623	0.687937	2134.352	0.012248
61°33'	840781.9507	30.952001	8792.3318	0.023090	1.571	
			59537.1385	0.688676	2138.124	0.012248
61°34'	842639.0708	30.952077	8793.7172	0.023078	1.569	
			59578.4591	0.689416	2141.906	0.012248
61°35'	844496.1954	30.952153	8795.1018	0.023065	1.568	
			59619.8240	0.690158	2145.696	0.012248
61°36'	846353.3246	30.952229	8796.4857	0.023053	1.566	
			59661.2335	0.690901	2149.495	0.012248
61°37'	848210.4584	30.952305	8797.8689	0.023040	1.565	
			59702.6876	0.691645	2153.303	0.012248
61°38'	850067.5967	30.952381	8799.2513	0.023028	1.563	
			59744.1863	0.692391	2157.120	0.012248
61°39'	851924.7396	30.952457	8800.6330	0.023015	1.562	
			59785.7298	0.693138	2160.946	0.012248
61°40'	853781.8871	30.952533	8802.0139	0.023003	1.560	
			59827.3180	0.693886	2164.781	0.012248
61°41'	855639.0391	30.952609	8803.3941	0.022991	1.559	
			59868.9512	0.694636	2168.625	0.012248

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0031	-0.0050	-0.0056

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
61°42'	857496.1956	30.952685	8804.7735	0.022978	1.558	
			59910.6294	0.695387	2172.478	0.012248
61°43'	859353.3567	30.952761	8806.1522	0.022966	1.556	
			59952.3526	0.696139	2176.340	0.012248
61°44'	861210.5224	30.952837	8807.5302	0.022953	1.555	
			59994.1210	0.696893	2180.211	0.012248
61°45'	863067.6926	30.952913	8808.9074	0.022941	1.553	
			60035.9346	0.697648	2184.092	0.012248
61°46'	864924.8673	30.952988	8810.2838	0.022929	1.552	
			60077.7934	0.698404	2187.981	0.012248
61°47'	866782.0466	30.953064	8811.6596	0.022916	1.550	
			60119.6977	0.699162	2191.880	0.012248
61°48'	868639.2305	30.953140	8813.0345	0.022904	1.549	
			60161.6474	0.699921	2195.787	0.012248
61°49'	870496.4188	30.953215	8814.4087	0.022891	1.547	
			60203.6427	0.700682	2199.704	0.012248
61°50'	872353.6118	30.953291	8815.7822	0.022879	1.546	
			60245.6836	0.701443	2203.631	0.012248
61°51'	874210.8092	30.953367	8817.1549	0.022866	1.545	
			60287.7702	0.702207	2207.566	0.012248
61°52'	876068.0112	30.953442	8818.5269	0.022854	1.543	
			60329.9026	0.702971	2211.511	0.012248
61°53'	877925.2177	30.953518	8819.8982	0.022842	1.542	
			60372.0809	0.703737	2215.465	0.012248
61°54'	879782.4288	30.953593	8821.2687	0.022829	1.540	
			60414.3051	0.704504	2219.429	0.012248
61°55'	881639.6444	30.953669	8822.6384	0.022817	1.539	
			60456.5754	0.705273	2223.402	0.012248
61°56'	883496.8645	30.953744	8824.0074	0.022804	1.537	
			60498.8917	0.706043	2227.384	0.012247
61°57'	885354.0892	30.953820	8825.3757	0.022792	1.536	
			60541.2543	0.706814	2231.376	0.012247
61°58'	887211.3184	30.953895	8826.7432	0.022779	1.534	
			60583.6632	0.707587	2235.377	0.012247
61°59'	889068.5521	30.953970	8828.1099	0.022767	1.533	
			60626.1184	0.708361	2239.388	0.012247
62° 0'	890925.7903	30.954046	8829.4759	0.022754	1.531	
			60668.6200	0.709137	2243.408	0.012247
62° 1'	892783.0331	30.954121	8830.8412	0.022742	1.530	
			60711.1683	0.709914	2247.438	0.012247
62° 2'	894640.2803	30.954196	8832.2057	0.022729	1.529	
			60753.7631	0.710692	2251.478	0.012247
62° 3'	896497.5321	30.954272	8833.5695	0.022717	1.527	
			60796.4046	0.711472	2255.527	0.012247

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0033	-0.0052	-0.0059

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
62° 4'	898354.7884	30.954347	8834.9325	0.022705	1.526	
			60839.0929	0.712253	2259.586	0.012247
62° 5'	900212.0492	30.954422	8836.2948	0.022692	1.524	
			60881.8281	0.713036	2263.654	0.012247
62° 6'	902069.3146	30.954497	8837.6563	0.022680	1.523	
			60924.6102	0.713819	2267.732	0.012247
62° 7'	903926.5844	30.954572	8839.0171	0.022667	1.521	
			60967.4394	0.714605	2271.820	0.012247
62° 8'	905783.8588	30.954648	8840.3771	0.022655	1.520	
			61010.3157	0.715392	2275.918	0.012247
62° 9'	907641.1376	30.954723	8841.7364	0.022642	1.518	
			61053.2392	0.716180	2280.025	0.012247
62°10'	909498.4210	30.954798	8843.0949	0.022630	1.517	
			61096.2100	0.716970	2284.142	0.012247
62°11'	911355.7088	30.954873	8844.4527	0.022617	1.516	
			61139.2281	0.717761	2288.270	0.012247
62°12'	913213.0012	30.954948	8845.8098	0.022605	1.514	
			61182.2938	0.718553	2292.407	0.012247
62°13'	915070.2981	30.955023	8847.1660	0.022592	1.513	
			61225.4070	0.719347	2296.553	0.012247
62°14'	916927.5994	30.955098	8848.5216	0.022580	1.511	
			61268.5678	0.720143	2300.710	0.012247
62°15'	918784.9053	30.955173	8849.8764	0.022567	1.510	
			61311.7764	0.720939	2304.877	0.012247
62°16'	920642.2157	30.955247	8851.2304	0.022555	1.508	
			61355.0327	0.721738	2309.054	0.012247
62°17'	922499.5305	30.955322	8852.5837	0.022542	1.507	
			61398.3370	0.722537	2313.241	0.012247
62°18'	924356.8498	30.955397	8853.9363	0.022530	1.505	
			61441.6892	0.723339	2317.438	0.012247
62°19'	926214.1737	30.955472	8855.2881	0.022517	1.504	
			61485.0895	0.724141	2321.645	0.012247
62°20'	928071.5020	30.955547	8856.6391	0.022505	1.503	
			61528.5380	0.724945	2325.862	0.012247
62°21'	929928.8348	30.955621	8857.9894	0.022492	1.501	
			61572.0347	0.725751	2330.089	0.012246
62°22'	931786.1721	30.955696	8859.3389	0.022480	1.500	
			61615.5798	0.726558	2334.326	0.012246
62°23'	933643.5138	30.955771	8860.6877	0.022467	1.498	
			61659.1732	0.727366	2338.574	0.012246
62°24'	935500.8601	30.955845	8862.0358	0.022455	1.497	
			61702.8152	0.728176	2342.832	0.012246
62°25'	937358.2108	30.955920	8863.3831	0.022442	1.495	
			61746.5058	0.728988	2347.100	0.012246

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0034	-0.0054	-0.0061

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
62°26'	939215.5660	30.955995	8864.7296	0.022430	1.494	
			61790.2451	0.729801	2351.379	0.012246
62°27'	941072.9257	30.956069	8866.0754	0.022417	1.492	
			61834.0331	0.730615	2355.668	0.012246
62°28'	942930.2898	30.956144	8867.4205	0.022405	1.491	
			61877.8700	0.731431	2359.967	0.012246
62°29'	944787.6585	30.956218	8868.7648	0.022392	1.490	
			61921.7559	0.732248	2364.276	0.012246
62°30'	946645.0316	30.956293	8870.1083	0.022380	1.488	
			61965.6908	0.733067	2368.596	0.012246
62°31'	948502.4091	30.956367	8871.4511	0.022367	1.487	
			62009.6748	0.733888	2372.927	0.012246
62°32'	950359.7911	30.956441	8872.7932	0.022355	1.485	
			62053.7081	0.734710	2377.268	0.012246
62°33'	952217.1776	30.956516	8874.1345	0.022342	1.484	
			62097.7906	0.735533	2381.619	0.012246
62°34'	954074.5686	30.956590	8875.4750	0.022330	1.482	
			62141.9226	0.736358	2385.981	0.012246
62°35'	955931.9640	30.956665	8876.8148	0.022317	1.481	
			62186.1041	0.737184	2390.354	0.012246
62°36'	957789.3639	30.956739	8878.1539	0.022305	1.479	
			62230.3352	0.738012	2394.737	0.012246
62°37'	959646.7682	30.956813	8879.4921	0.022292	1.478	
			62274.6159	0.738842	2399.131	0.012246
62°38'	961504.1770	30.956887	8880.8297	0.022280	1.477	
			62318.9464	0.739673	2403.536	0.012246
62°39'	963361.5902	30.956961	8882.1665	0.022267	1.475	
			62363.3268	0.740505	2407.951	0.012246
62°40'	965219.0079	30.957036	8883.5025	0.022255	1.474	
			62407.7571	0.741339	2412.377	0.012246
62°41'	967076.4300	30.957110	8884.8378	0.022242	1.472	
			62452.2374	0.742175	2416.814	0.012246
62°42'	968933.8566	30.957184	8886.1723	0.022230	1.471	
			62496.7679	0.743012	2421.262	0.012246
62°43'	970791.2877	30.957258	8887.5061	0.022217	1.469	
			62541.3486	0.743851	2425.721	0.012246
62°44'	972648.7231	30.957332	8888.8391	0.022205	1.468	
			62585.9797	0.744691	2430.190	0.012246
62°45'	974506.1631	30.957406	8890.1714	0.022192	1.466	
			62630.6611	0.745533	2434.670	0.012246
62°46'	976363.6074	30.957480	8891.5029	0.022180	1.465	
			62675.3931	0.746376	2439.162	0.012246
62°47'	978221.0562	30.957554	8892.8337	0.022167	1.464	
			62720.1756	0.747221	2443.664	0.012245

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0035	-0.0057	-0.0064

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
62°48'	980078.5094	30.957628	8894.1637	0.022154	1.462	
			62765.0089	0.748067	2448.177	0.012245
62°49'	981935.9671	30.957702	8895.4930	0.022142	1.461	
			62809.8929	0.748915	2452.702	0.012245
62°50'	983793.4292	30.957776	8896.8215	0.022129	1.459	
			62854.8278	0.749765	2457.237	0.012245
62°51'	985650.8957	30.957849	8898.1493	0.022117	1.458	
			62899.8137	0.750616	2461.784	0.012245
62°52'	987508.3667	30.957923	8899.4763	0.022104	1.456	
			62944.8507	0.751469	2466.341	0.012245
62°53'	989365.8421	30.957997	8900.8025	0.022092	1.455	
			62989.9388	0.752323	2470.910	0.012245
62°54'	991223.3219	30.958071	8902.1280	0.022079	1.453	
			63035.0782	0.753179	2475.491	0.012245
62°55'	993080.8062	30.958144	8903.4528	0.022067	1.452	
			63080.2689	0.754036	2480.082	0.012245
62°56'	994938.2948	30.958218	8904.7768	0.022054	1.451	
			63125.5111	0.754896	2484.685	0.012245
62°57'	996795.7879	30.958292	8906.1000	0.022041	1.449	
			63170.8049	0.755756	2489.299	0.012245
62°58'	998653.2854	30.958365	8907.4225	0.022029	1.448	
			63216.1502	0.756618	2493.924	0.012245
62°59'	1000510.7873	30.958439	8908.7443	0.022016	1.446	
			63261.5473	0.757482	2498.561	0.012245
63° 0'	1002368.2937	30.958512	8910.0652	0.022004	1.445	
			63306.9963	0.758348	2503.209	0.012245
63° 1'	1004225.8044	30.958586	8911.3855	0.021991	1.443	
			63352.4972	0.759215	2507.869	0.012245
63° 2'	1006083.3196	30.958659	8912.7049	0.021979	1.442	
			63398.0500	0.760084	2512.540	0.012245
63° 3'	1007940.8391	30.958733	8914.0237	0.021966	1.440	
			63443.6551	0.760954	2517.223	0.012245
63° 4'	1009798.3631	30.958806	8915.3416	0.021954	1.439	
			63489.3123	0.761826	2521.917	0.012245
63° 5'	1011655.8915	30.958880	8916.6588	0.021941	1.438	
			63535.0219	0.762700	2526.623	0.012245
63° 6'	1013513.4243	30.958953	8917.9753	0.021928	1.436	
			63580.7838	0.763575	2531.341	0.012245
63° 7'	1015370.9614	30.959026	8919.2910	0.021916	1.435	
			63626.5983	0.764452	2536.070	0.012245
63° 8'	1017228.5030	30.959100	8920.6059	0.021903	1.433	
			63672.4654	0.765330	2540.811	0.012245
63° 9'	1019086.0490	30.959173	8921.9201	0.021891	1.432	
			63718.3852	0.766210	2545.564	0.012245

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0037	-0.0059	-0.0066

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
63°10'	1020943.5994	30.959246	8923.2336	0.021878	1.430	
			63764.3579	0.767092	2550.328	0.012245
63°11'	1022801.1542	30.959319	8924.5463	0.021865	1.429	
			63810.3834	0.767976	2555.104	0.012245
63°12'	1024658.7133	30.959393	8925.8582	0.021853	1.428	
			63856.4619	0.768861	2559.893	0.012245
63°13'	1026516.2769	30.959466	8927.1694	0.021840	1.426	
			63902.5936	0.769748	2564.693	0.012244
63°14'	1028373.8448	30.959539	8928.4798	0.021828	1.425	
			63948.7784	0.770636	2569.505	0.012244
63°15'	1030231.4172	30.959612	8929.7894	0.021815	1.423	
			63995.0166	0.771526	2574.329	0.012244
63°16'	1032088.9939	30.959685	8931.0983	0.021802	1.422	
			64041.3081	0.772418	2579.165	0.012244
63°17'	1033946.5750	30.959758	8932.4065	0.021790	1.420	
			64087.6532	0.773311	2584.013	0.012244
63°18'	1035804.1605	30.959831	8933.7139	0.021777	1.419	
			64134.0519	0.774206	2588.873	0.012244
63°19'	1037661.7503	30.959904	8935.0205	0.021765	1.417	
			64180.5043	0.775103	2593.746	0.012244
63°20'	1039519.3446	30.959977	8936.3264	0.021752	1.416	
			64227.0105	0.776002	2598.630	0.012244
63°21'	1041376.9432	30.960050	8937.6315	0.021739	1.415	
			64273.5706	0.776902	2603.527	0.012244
63°22'	1043234.5462	30.960123	8938.9359	0.021727	1.413	
			64320.1847	0.777804	2608.436	0.012244
63°23'	1045092.1535	30.960196	8940.2395	0.021714	1.412	
			64366.8530	0.778708	2613.357	0.012244
63°24'	1046949.7653	30.960268	8941.5424	0.021702	1.410	
			64413.5754	0.779613	2618.291	0.012244
63°25'	1048807.3814	30.960341	8942.8445	0.021689	1.409	
			64460.3522	0.780520	2623.236	0.012244
63°26'	1050665.0018	30.960414	8944.1458	0.021676	1.407	
			64507.1834	0.781429	2628.195	0.012244
63°27'	1052522.6266	30.960487	8945.4464	0.021664	1.406	
			64554.0691	0.782339	2633.165	0.012244
63°28'	1054380.2558	30.960559	8946.7462	0.021651	1.404	
			64601.0095	0.783251	2638.149	0.012244
63°29'	1056237.8894	30.960632	8948.0453	0.021639	1.403	
			64648.0046	0.784165	2643.144	0.012244
63°30'	1058095.5273	30.960704	8949.3436	0.021626	1.402	
			64695.0545	0.785081	2648.153	0.012244
63°31'	1059953.1696	30.960777	8950.6412	0.021613	1.400	
			64742.1593	0.785998	2653.174	0.012244

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0038	-0.0061	-0.0069

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
63°32'	1061810.8162	30.960850	8951.9380	0.021601	1.399	
			64789.3192	0.786918	2658.207	0.012244
63°33'	1063668.4672	30.960922	8953.2340	0.021588	1.397	
			64836.5343	0.787839	2663.253	0.012244
63°34'	1065526.1225	30.960995	8954.5293	0.021575	1.396	
			64883.8046	0.788761	2668.312	0.012244
63°35'	1067383.7822	30.961067	8955.8238	0.021563	1.394	
			64931.1303	0.789686	2673.384	0.012244
63°36'	1069241.4462	30.961139	8957.1176	0.021550	1.393	
			64978.5114	0.790612	2678.468	0.012244
63°37'	1071099.1146	30.961212	8958.4106	0.021538	1.392	
			65025.9481	0.791540	2683.565	0.012244
63°38'	1072956.7873	30.961284	8959.7029	0.021525	1.390	
			65073.4405	0.792469	2688.675	0.012244
63°39'	1074814.4643	30.961357	8960.9944	0.021512	1.389	
			65120.9887	0.793401	2693.799	0.012243
63°40'	1076672.1457	30.961429	8962.2851	0.021500	1.387	
			65168.5927	0.794334	2698.935	0.012243
63°41'	1078529.8315	30.961501	8963.5751	0.021487	1.386	
			65216.2528	0.795269	2704.084	0.012243
63°42'	1080387.5215	30.961573	8964.8643	0.021474	1.384	
			65263.9689	0.796206	2709.246	0.012243
63°43'	1082245.2159	30.961646	8966.1528	0.021462	1.383	
			65311.7413	0.797145	2714.421	0.012243
63°44'	1084102.9147	30.961718	8967.4405	0.021449	1.381	
			65359.5699	0.798085	2719.609	0.012243
63°45'	1085960.6177	30.961790	8968.7274	0.021436	1.380	
			65407.4550	0.799027	2724.810	0.012243
63°46'	1087818.3251	30.961862	8970.0136	0.021424	1.379	
			65455.3967	0.799971	2730.025	0.012243
63°47'	1089676.0368	30.961934	8971.2990	0.021411	1.377	
			65503.3949	0.800917	2735.253	0.012243
63°48'	1091533.7529	30.962006	8972.5837	0.021398	1.376	
			65551.4500	0.801865	2740.494	0.012243
63°49'	1093391.4733	30.962078	8973.8676	0.021386	1.374	
			65599.5618	0.802814	2745.748	0.012243
63°50'	1095249.1979	30.962150	8975.1508	0.021373	1.373	
			65647.7307	0.803765	2751.016	0.012243
63°51'	1097106.9269	30.962222	8976.4331	0.021361	1.371	
			65695.9566	0.804719	2756.297	0.012243
63°52'	1098964.6603	30.962294	8977.7148	0.021348	1.370	
			65744.2397	0.805673	2761.592	0.012243
63°53'	1100822.3979	30.962366	8978.9956	0.021335	1.369	
			65792.5801	0.806630	2766.900	0.012243

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0040	-0.0064	-0.0072

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
63°54'	1102680.1399	30.962438	8980.2758	0.021323	1.367	
			65840.9780	0.807589	2772.222	0.012243
63°55'	1104537.8861	30.962510	8981.5551	0.021310	1.366	
			65889.4333	0.808549	2777.557	0.012243
63°56'	1106395.6367	30.962581	8982.8337	0.021297	1.364	
			65937.9463	0.809512	2782.906	0.012243
63°57'	1108253.3916	30.962653	8984.1115	0.021285	1.363	
			65986.5170	0.810476	2788.269	0.012243
63°58'	1110111.1507	30.962725	8985.3886	0.021272	1.361	
			66035.1455	0.811442	2793.645	0.012243
63°59'	1111968.9142	30.962796	8986.6649	0.021259	1.360	
			66083.8320	0.812410	2799.035	0.012243
64° 0'	1113826.6820	30.962868	8987.9405	0.021246	1.358	
			66132.5766	0.813380	2804.439	0.012243
64° 1'	1115684.4541	30.962940	8989.2153	0.021234	1.357	
			66181.3794	0.814351	2809.857	0.012243
64° 2'	1117542.2305	30.963011	8990.4893	0.021221	1.356	
			66230.2405	0.815325	2815.289	0.012243
64° 3'	1119400.0112	30.963083	8991.7626	0.021208	1.354	
			66279.1600	0.816300	2820.734	0.012243
64° 4'	1121257.7961	30.963154	8993.0351	0.021196	1.353	
			66328.1380	0.817278	2826.194	0.012243
64° 5'	1123115.5854	30.963226	8994.3068	0.021183	1.351	
			66377.1746	0.818257	2831.668	0.012242
64° 6'	1124973.3790	30.963297	8995.5778	0.021170	1.350	
			66426.2700	0.819238	2837.155	0.012242
64° 7'	1126831.1768	30.963369	8996.8480	0.021158	1.348	
			66475.4243	0.820221	2842.657	0.012242
64° 8'	1128688.9789	30.963440	8998.1175	0.021145	1.347	
			66524.6375	0.821206	2848.173	0.012242
64° 9'	1130546.7853	30.963512	8999.3862	0.021132	1.346	
			66573.9099	0.822193	2853.703	0.012242
64°10'	1132404.5960	30.963583	9000.6541	0.021120	1.344	
			66623.2415	0.823181	2859.248	0.012242
64°11'	1134262.4110	30.963654	9001.9213	0.021107	1.343	
			66672.6323	0.824172	2864.807	0.012242
64°12'	1136120.2303	30.963725	9003.1877	0.021094	1.341	
			66722.0827	0.825165	2870.380	0.012242
64°13'	1137978.0538	30.963797	9004.4534	0.021082	1.340	
			66771.5925	0.826159	2875.967	0.012242
64°14'	1139835.8816	30.963868	9005.7183	0.021069	1.338	
			66821.1621	0.827156	2881.569	0.012242
64°15'	1141693.7137	30.963939	9006.9824	0.021056	1.337	
			66870.7914	0.828154	2887.186	0.012242

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0042	-0.0067	-0.0075

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
64°16'	1143551.5500	30.964010	9008.2458	0.021043	1.336	
			66920.4807	0.829155	2892.817	0.012242
64°17'	1145409.3906	30.964081	9009.5084	0.021031	1.334	
			66970.2300	0.830157	2898.462	0.012242
64°18'	1147267.2355	30.964152	9010.7702	0.021018	1.333	
			67020.0394	0.831161	2904.122	0.012242
64°19'	1149125.0846	30.964223	9012.0313	0.021005	1.331	
			67069.9090	0.832167	2909.797	0.012242
64°20'	1150982.9380	30.964294	9013.2916	0.020993	1.330	
			67119.8391	0.833176	2915.487	0.012242
64°21'	1152840.7957	30.964365	9014.5512	0.020980	1.328	
			67169.8296	0.834186	2921.191	0.012242
64°22'	1154698.6576	30.964436	9015.8100	0.020967	1.327	
			67219.8808	0.835198	2926.910	0.012242
64°23'	1156556.5238	30.964507	9017.0680	0.020954	1.326	
			67269.9926	0.836212	2932.644	0.012242
64°24'	1158414.3943	30.964578	9018.3253	0.020942	1.324	
			67320.1654	0.837228	2938.393	0.012242
64°25'	1160272.2689	30.964649	9019.5818	0.020929	1.323	
			67370.3991	0.838246	2944.157	0.012242
64°26'	1162130.1479	30.964720	9020.8375	0.020916	1.321	
			67420.6939	0.839267	2949.936	0.012242
64°27'	1163988.0311	30.964791	9022.0925	0.020904	1.320	
			67471.0499	0.840289	2955.730	0.012242
64°28'	1165845.9185	30.964861	9023.3467	0.020891	1.318	
			67521.4672	0.841313	2961.539	0.012242
64°29'	1167703.8102	30.964932	9024.6002	0.020878	1.317	
			67571.9460	0.842339	2967.364	0.012242
64°30'	1169561.7061	30.965003	9025.8528	0.020865	1.316	
			67622.4863	0.843367	2973.203	0.012242
64°31'	1171419.6063	30.965073	9027.1048	0.020853	1.314	
			67673.0883	0.844398	2979.058	0.012242
64°32'	1173277.5107	30.965144	9028.3559	0.020840	1.313	
			67723.7522	0.845430	2984.928	0.012241
64°33'	1175135.4193	30.965215	9029.6063	0.020827	1.311	
			67774.4780	0.846464	2990.813	0.012241
64°34'	1176993.3322	30.965285	9030.8560	0.020814	1.310	
			67825.2658	0.847501	2996.714	0.012241
64°35'	1178851.2493	30.965356	9032.1048	0.020802	1.308	
			67876.1159	0.848539	3002.631	0.012241
64°36'	1180709.1706	30.965426	9033.3529	0.020789	1.307	
			67927.0282	0.849579	3008.562	0.012241
64°37'	1182567.0962	30.965496	9034.6003	0.020776	1.306	
			67978.0030	0.850622	3014.510	0.012241

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0044	-0.0070	-0.0078

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
64°38'	1184425.0259	30.965567	9035.8468	0.020764	1.304	
			68029.0403	0.851666	3020.473	0.012241
64°39'	1186282.9600	30.965637	9037.0927	0.020751	1.303	
			68080.1403	0.852713	3026.452	0.012241
64°40'	1188140.8982	30.965708	9038.3377	0.020738	1.301	
			68131.3031	0.853762	3032.446	0.012241
64°41'	1189998.8407	30.965778	9039.5820	0.020725	1.300	
			68182.5288	0.854813	3038.456	0.012241
64°42'	1191856.7873	30.965848	9040.8255	0.020713	1.298	
			68233.8175	0.855866	3044.482	0.012241
64°43'	1193714.7382	30.965918	9042.0682	0.020700	1.297	
			68285.1695	0.856921	3050.524	0.012241
64°44'	1195572.6933	30.965989	9043.3102	0.020687	1.296	
			68336.5847	0.857978	3056.582	0.012241
64°45'	1197430.6526	30.966059	9044.5515	0.020674	1.294	
			68388.0634	0.859037	3062.656	0.012241
64°46'	1199288.6162	30.966129	9045.7919	0.020662	1.293	
			68439.6056	0.860098	3068.745	0.012241
64°47'	1201146.5839	30.966199	9047.0316	0.020649	1.291	
			68491.2114	0.861161	3074.851	0.012241
64°48'	1203004.5559	30.966269	9048.2705	0.020636	1.290	
			68542.8811	0.862227	3080.973	0.012241
64°49'	1204862.5320	30.966339	9049.5087	0.020623	1.288	
			68594.6147	0.863295	3087.112	0.012241
64°50'	1206720.5124	30.966409	9050.7461	0.020610	1.287	
			68646.4124	0.864364	3093.266	0.012241
64°51'	1208578.4969	30.966479	9051.9827	0.020598	1.286	
			68698.2743	0.865436	3099.437	0.012241
64°52'	1210436.4857	30.966549	9053.2186	0.020585	1.284	
			68750.2005	0.866510	3105.624	0.012241
64°53'	1212294.4786	30.966619	9054.4537	0.020572	1.283	
			68802.1911	0.867587	3111.828	0.012241
64°54'	1214152.4758	30.966689	9055.6880	0.020559	1.281	
			68854.2463	0.868665	3118.048	0.012241
64°55'	1216010.4771	30.966759	9056.9216	0.020547	1.280	
			68906.3662	0.869745	3124.284	0.012241
64°56'	1217868.4826	30.966829	9058.1543	0.020534	1.279	
			68958.5509	0.870828	3130.537	0.012241
64°57'	1219726.4923	30.966898	9059.3864	0.020521	1.277	
			69010.8006	0.871913	3136.807	0.012241
64°58'	1221584.5062	30.966968	9060.6176	0.020508	1.276	
			69063.1154	0.873000	3143.093	0.012241
64°59'	1223442.5243	30.967038	9061.8481	0.020496	1.274	
			69115.4954	0.874089	3149.397	0.012240

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0046	-0.0073	-0.0082

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
65° 0'	1225300.5466	30.967107	9063.0779	0.020483	1.273	
			69167.9407	0.875181	3155.717	0.012240
65° 1'	1227158.5731	30.967177	9064.3068	0.020470	1.271	
			69220.4516	0.876274	3162.053	0.012240
65° 2'	1229016.6037	30.967247	9065.5350	0.020457	1.270	
			69273.0280	0.877370	3168.407	0.012240
65° 3'	1230874.6385	30.967316	9066.7625	0.020444	1.269	
			69325.6702	0.878468	3174.778	0.012240
65° 4'	1232732.6775	30.967386	9067.9891	0.020432	1.267	
			69378.3783	0.879568	3181.165	0.012240
65° 5'	1234590.7206	30.967455	9069.2150	0.020419	1.266	
			69431.1524	0.880671	3187.570	0.012240
65° 6'	1236448.7679	30.967525	9070.4401	0.020406	1.264	
			69483.9927	0.881775	3193.992	0.012240
65° 7'	1238306.8194	30.967594	9071.6645	0.020393	1.263	
			69536.8992	0.882882	3200.431	0.012240
65° 8'	1240164.8751	30.967664	9072.8881	0.020380	1.261	
			69589.8721	0.883991	3206.888	0.012240
65° 9'	1242022.9349	30.967733	9074.1109	0.020368	1.260	
			69642.9116	0.885103	3213.361	0.012240
65°10'	1243880.9989	30.967802	9075.3330	0.020355	1.259	
			69696.0178	0.886216	3219.852	0.012240
65°11'	1245739.0670	30.967872	9076.5543	0.020342	1.257	
			69749.1907	0.887332	3226.361	0.012240
65°12'	1247597.1393	30.967941	9077.7748	0.020329	1.256	
			69802.4307	0.888450	3232.887	0.012240
65°13'	1249455.2158	30.968010	9078.9945	0.020316	1.254	
			69855.7377	0.889571	3239.430	0.012240
65°14'	1251313.2964	30.968079	9080.2135	0.020304	1.253	
			69909.1119	0.890693	3245.991	0.012240
65°15'	1253171.3812	30.968149	9081.4317	0.020291	1.252	
			69962.5535	0.891818	3252.570	0.012240
65°16'	1255029.4701	30.968218	9082.6492	0.020278	1.250	
			70016.0626	0.892946	3259.166	0.012240
65°17'	1256887.5631	30.968287	9083.8659	0.020265	1.249	
			70069.6394	0.894075	3265.781	0.012240
65°18'	1258745.6603	30.968356	9085.0818	0.020252	1.247	
			70123.2839	0.895207	3272.413	0.012240
65°19'	1260603.7617	30.968425	9086.2969	0.020240	1.246	
			70176.9963	0.896341	3279.063	0.012240
65°20'	1262461.8672	30.968494	9087.5113	0.020227	1.244	
			70230.7767	0.897477	3285.731	0.012240
65°21'	1264319.9768	30.968563	9088.7249	0.020214	1.243	
			70284.6254	0.898616	3292.417	0.012240

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0048	-0.0076	-0.0086

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
65°22'	1266178.0906	30.968632	9089.9377	0.020201	1.242	
			70338.5423	0.899757	3299.121	0.012240
65°23'	1268036.2085	30.968701	9091.1498	0.020188	1.240	
			70392.5278	0.900901	3305.843	0.012240
65°24'	1269894.3305	30.968770	9092.3611	0.020175	1.239	
			70446.5818	0.902046	3312.583	0.012240
65°25'	1271752.4567	30.968838	9093.5716	0.020163	1.237	
			70500.7046	0.903194	3319.342	0.012240
65°26'	1273610.5870	30.968907	9094.7814	0.020150	1.236	
			70554.8962	0.904345	3326.119	0.012239
65°27'	1275468.7214	30.968976	9095.9904	0.020137	1.235	
			70609.1569	0.905497	3332.914	0.012239
65°28'	1277326.8600	30.969045	9097.1986	0.020124	1.233	
			70663.4867	0.906653	3339.728	0.012239
65°29'	1279185.0027	30.969113	9098.4060	0.020111	1.232	
			70717.8859	0.907810	3346.560	0.012239
65°30'	1281043.1495	30.969182	9099.6127	0.020098	1.230	
			70772.3545	0.908970	3353.411	0.012239
65°31'	1282901.3004	30.969251	9100.8186	0.020086	1.229	
			70826.8927	0.910132	3360.281	0.012239
65°32'	1284759.4554	30.969319	9102.0238	0.020073	1.227	
			70881.5006	0.911297	3367.169	0.012239
65°33'	1286617.6146	30.969388	9103.2281	0.020060	1.226	
			70936.1784	0.912464	3374.076	0.012239
65°34'	1288475.7778	30.969456	9104.4317	0.020047	1.225	
			70990.9263	0.913633	3381.002	0.012239
65°35'	1290333.9452	30.969525	9105.6346	0.020034	1.223	
			71045.7442	0.914805	3387.947	0.012239
65°36'	1292192.1167	30.969593	9106.8366	0.020021	1.222	
			71100.6325	0.915979	3394.911	0.012239
65°37'	1294050.2923	30.969662	9108.0379	0.020009	1.220	
			71155.5913	0.917156	3401.893	0.012239
65°38'	1295908.4720	30.969730	9109.2384	0.019996	1.219	
			71210.6206	0.918335	3408.895	0.012239
65°39'	1297766.6557	30.969798	9110.4382	0.019983	1.218	
			71265.7207	0.919516	3415.916	0.012239
65°40'	1299624.8436	30.969867	9111.6371	0.019970	1.216	
			71320.8917	0.920700	3422.956	0.012239
65°41'	1301483.0356	30.969935	9112.8353	0.019957	1.215	
			71376.1337	0.921887	3430.016	0.012239
65°42'	1303341.2317	30.970003	9114.0328	0.019944	1.213	
			71431.4469	0.923076	3437.095	0.012239
65°43'	1305199.4319	30.970071	9115.2294	0.019931	1.212	
			71486.8315	0.924267	3444.193	0.012239

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0005	(XIV)	0.0000	-0.0050	-0.0080	-0.0090

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
65°44'	1307057.6362	30.970139	9116.4253	0.019919	1.211	
			71542.2875	0.925461	3451.311	0.012239
65°45'	1308915.8445	30.970208	9117.6204	0.019906	1.209	
			71597.8151	0.926657	3458.448	0.012239
65°46'	1310774.0570	30.970276	9118.8148	0.019893	1.208	
			71653.4145	0.927855	3465.605	0.012239
65°47'	1312632.2735	30.970344	9120.0084	0.019880	1.206	
			71709.0859	0.929057	3472.782	0.012239
65°48'	1314490.4942	30.970412	9121.2012	0.019867	1.205	
			71764.8293	0.930260	3479.978	0.012239
65°49'	1316348.7189	30.970480	9122.3932	0.019854	1.204	
			71820.6449	0.931467	3487.195	0.012239
65°50'	1318206.9477	30.970548	9123.5845	0.019841	1.202	
			71876.5329	0.932675	3494.431	0.012239
65°51'	1320065.1805	30.970616	9124.7749	0.019829	1.201	
			71932.4934	0.933886	3501.687	0.012239
65°52'	1321923.4175	30.970684	9125.9647	0.019816	1.199	
			71988.5266	0.935100	3508.963	0.012239
65°53'	1323781.6585	30.970751	9127.1536	0.019803	1.198	
			72044.6326	0.936316	3516.259	0.012239
65°54'	1325639.9035	30.970819	9128.3418	0.019790	1.196	
			72100.8115	0.937535	3523.576	0.012238
65°55'	1327498.1527	30.970887	9129.5292	0.019777	1.195	
			72157.0637	0.938756	3530.912	0.012238
65°56'	1329356.4059	30.970955	9130.7158	0.019764	1.194	
			72213.3890	0.939980	3538.269	0.012238
65°57'	1331214.6632	30.971022	9131.9017	0.019751	1.192	
			72269.7879	0.941207	3545.647	0.012238
65°58'	1333072.9245	30.971090	9133.0867	0.019738	1.191	
			72326.2603	0.942436	3553.044	0.012238
65°59'	1334931.1899	30.971158	9134.2710	0.019726	1.189	
			72382.8064	0.943667	3560.463	0.012238
66° 0'	1336789.4594	30.971225	9135.4546	0.019713	1.188	
			72439.4264	0.944901	3567.902	0.012238
66° 1'	1338647.7329	30.971293	9136.6373	0.019700	1.187	
			72496.1205	0.946138	3575.361	0.012238
66° 2'	1340506.0105	30.971360	9137.8193	0.019687	1.185	
			72552.8888	0.947377	3582.842	0.012238
66° 3'	1342364.2921	30.971428	9139.0005	0.019674	1.184	
			72609.7314	0.948619	3590.343	0.012238
66° 4'	1344222.5778	30.971495	9140.1810	0.019661	1.182	
			72666.6486	0.949864	3597.865	0.012238
66° 5'	1346080.8675	30.971563	9141.3607	0.019648	1.181	
			72723.6404	0.951111	3605.408	0.012238

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0052	-0.0083	-0.0094

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
66° 6'	1347939.1613	30.971630	9142.5396	0.019635	1.180	
			72780.7071	0.952361	3612.972	0.012238
66° 7'	1349797.4591	30.971698	9143.7177	0.019622	1.178	
			72837.8487	0.953613	3620.557	0.012238
66° 8'	1351655.7610	30.971765	9144.8950	0.019610	1.177	
			72895.0655	0.954868	3628.163	0.012238
66° 9'	1353514.0669	30.971832	9146.0716	0.019597	1.175	
			72952.3575	0.956126	3635.791	0.012238
66°10'	1355372.3768	30.971899	9147.2474	0.019584	1.174	
			73009.7251	0.957386	3643.439	0.012238
66°11'	1357230.6908	30.971967	9148.4224	0.019571	1.173	
			73067.1682	0.958649	3651.110	0.012238
66°12'	1359089.0088	30.972034	9149.5967	0.019558	1.171	
			73124.6871	0.959914	3658.801	0.012238
66°13'	1360947.3308	30.972101	9150.7702	0.019545	1.170	
			73182.2820	0.961183	3666.515	0.012238
66°14'	1362805.6569	30.972168	9151.9429	0.019532	1.168	
			73239.9530	0.962454	3674.250	0.012238
66°15'	1364663.9870	30.972235	9153.1148	0.019519	1.167	
			73297.7002	0.963727	3682.006	0.012238
66°16'	1366522.3211	30.972302	9154.2859	0.019506	1.166	
			73355.5238	0.965003	3689.785	0.012238
66°17'	1368380.6592	30.972369	9155.4563	0.019493	1.164	
			73413.4240	0.966283	3697.585	0.012238
66°18'	1370239.0014	30.972436	9156.6259	0.019481	1.163	
			73471.4010	0.967564	3705.407	0.012238
66°19'	1372097.3475	30.972503	9157.7948	0.019468	1.161	
			73529.4548	0.968849	3713.251	0.012238
66°20'	1373955.6977	30.972570	9158.9628	0.019455	1.160	
			73587.5857	0.970136	3721.118	0.012238
66°21'	1375814.0519	30.972637	9160.1301	0.019442	1.159	
			73645.7939	0.971426	3729.006	0.012238
66°22'	1377672.4102	30.972704	9161.2966	0.019429	1.157	
			73704.0794	0.972718	3736.917	0.012237
66°23'	1379530.7724	30.972771	9162.4623	0.019416	1.156	
			73762.4425	0.974014	3744.850	0.012237
66°24'	1381389.1386	30.972837	9163.6273	0.019403	1.154	
			73820.8834	0.975312	3752.805	0.012237
66°25'	1383247.5089	30.972904	9164.7915	0.019390	1.153	
			73879.4021	0.976613	3760.783	0.012237
66°26'	1385105.8831	30.972971	9165.9549	0.019377	1.152	
			73937.9988	0.977917	3768.783	0.012237
66°27'	1386964.2613	30.973037	9167.1175	0.019364	1.150	
			73996.6738	0.979223	3776.806	0.012237

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0055	-0.0087	-0.0098

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
66°28'	1388822.6436	30.973104	9168.2794	0.019351	1.149	
			74055.4272	0.980532	3784.852	0.012237
66°29'	1390681.0298	30.973171	9169.4404	0.019338	1.147	
			74114.2592	0.981844	3792.921	0.012237
66°30'	1392539.4201	30.973237	9170.6007	0.019325	1.146	
			74173.1698	0.983159	3801.012	0.012237
66°31'	1394397.8143	30.973304	9171.7603	0.019312	1.145	
			74232.1594	0.984477	3809.127	0.012237
66°32'	1396256.2125	30.973370	9172.9190	0.019300	1.143	
			74291.2280	0.985797	3817.264	0.012237
66°33'	1398114.6147	30.973437	9174.0770	0.019287	1.142	
			74350.3758	0.987120	3825.425	0.012237
66°34'	1399973.0209	30.973503	9175.2342	0.019274	1.141	
			74409.6030	0.988447	3833.608	0.012237
66°35'	1401831.4311	30.973569	9176.3906	0.019261	1.139	
			74468.9098	0.989776	3841.816	0.012237
66°36'	1403689.8452	30.973636	9177.5463	0.019248	1.138	
			74528.2964	0.991107	3850.046	0.012237
66°37'	1405548.2634	30.973702	9178.7011	0.019235	1.136	
			74587.7628	0.992442	3858.300	0.012237
66°38'	1407406.6855	30.973768	9179.8552	0.019222	1.135	
			74647.3093	0.993780	3866.577	0.012237
66°39'	1409265.1116	30.973834	9181.0085	0.019209	1.134	
			74706.9361	0.995120	3874.878	0.012237
66°40'	1411123.5416	30.973901	9182.1611	0.019196	1.132	
			74766.6433	0.996463	3883.203	0.012237
66°41'	1412981.9756	30.973967	9183.3128	0.019183	1.131	
			74826.4311	0.997810	3891.552	0.012237
66°42'	1414840.4137	30.974033	9184.4638	0.019170	1.129	
			74886.2997	0.999159	3899.924	0.012237
66°43'	1416698.8556	30.974099	9185.6140	0.019157	1.128	
			74946.2492	1.000511	3908.321	0.012237
66°44'	1418557.3016	30.974165	9186.7634	0.019144	1.127	
			75006.2798	1.001866	3916.741	0.012237
66°45'	1420415.7514	30.974231	9187.9121	0.019131	1.125	
			75066.3918	1.003223	3925.186	0.012237
66°46'	1422274.2053	30.974297	9189.0600	0.019118	1.124	
			75126.5852	1.004584	3933.655	0.012237
66°47'	1424132.6631	30.974363	9190.2071	0.019105	1.122	
			75186.8602	1.005948	3942.148	0.012237
66°48'	1425991.1249	30.974429	9191.3534	0.019092	1.121	
			75247.2171	1.007314	3950.665	0.012237
66°49'	1427849.5906	30.974495	9192.4989	0.019079	1.120	
			75307.6559	1.008684	3959.207	0.012237

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0057	-0.0092	-0.0103

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
66°50'	1429708.0603	30.974560	9193.6437	0.019066	1.118	
			75368.1770	1.010057	3967.774	0.012237
66°51'	1431566.5339	30.974626	9194.7877	0.019053	1.117	
			75428.7804	1.011432	3976.365	0.012236
66°52'	1433425.0115	30.974692	9195.9309	0.019040	1.116	
			75489.4663	1.012811	3984.981	0.012236
66°53'	1435283.4930	30.974758	9197.0733	0.019028	1.114	
			75550.2350	1.014192	3993.622	0.012236
66°54'	1437141.9784	30.974823	9198.2150	0.019015	1.113	
			75611.0865	1.015577	4002.288	0.012236
66°55'	1439000.4678	30.974889	9199.3558	0.019002	1.111	
			75672.0211	1.016964	4010.978	0.012236
66°56'	1440858.9612	30.974955	9200.4959	0.018989	1.110	
			75733.0390	1.018355	4019.694	0.012236
66°57'	1442717.4584	30.975020	9201.6353	0.018976	1.109	
			75794.1403	1.019749	4028.435	0.012236
66°58'	1444575.9596	30.975086	9202.7738	0.018963	1.107	
			75855.3252	1.021145	4037.202	0.012236
66°59'	1446434.4648	30.975151	9203.9116	0.018950	1.106	
			75916.5939	1.022545	4045.994	0.012236
67° 0'	1448292.9738	30.975217	9205.0485	0.018937	1.104	
			75977.9466	1.023948	4054.811	0.012236
67° 1'	1450151.4868	30.975282	9206.1847	0.018924	1.103	
			76039.3834	1.025353	4063.654	0.012236
67° 2'	1452010.0038	30.975347	9207.3202	0.018911	1.102	
			76100.9046	1.026762	4072.522	0.012236
67° 3'	1453868.5246	30.975413	9208.4548	0.018898	1.100	
			76162.5104	1.028174	4081.416	0.012236
67° 4'	1455727.0494	30.975478	9209.5887	0.018885	1.099	
			76224.2008	1.029589	4090.336	0.012236
67° 5'	1457585.5780	30.975543	9210.7218	0.018872	1.098	
			76285.9762	1.031007	4099.282	0.012236
67° 6'	1459444.1106	30.975609	9211.8541	0.018859	1.096	
			76347.8366	1.032428	4108.254	0.012236
67° 7'	1461302.6472	30.975674	9212.9856	0.018846	1.095	
			76409.7823	1.033853	4117.253	0.012236
67° 8'	1463161.1876	30.975739	9214.1163	0.018833	1.093	
			76471.8135	1.035280	4126.277	0.012236
67° 9'	1465019.7319	30.975804	9215.2463	0.018820	1.092	
			76533.9303	1.036711	4135.328	0.012236
67°10'	1466878.2802	30.975869	9216.3755	0.018807	1.091	
			76596.1329	1.038145	4144.405	0.012236
67°11'	1468736.8323	30.975934	9217.5039	0.018794	1.089	
			76658.4216	1.039582	4153.509	0.012236

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0060	-0.0096	-0.0108

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
67°12'	1470595.3883	30.975999	9218.6315	0.018781	1.088	
			76720.7965	1.041022	4162.639	0.012236
67°13'	1472453.9483	30.976064	9219.7584	0.018768	1.087	
			76783.2578	1.042465	4171.796	0.012236
67°14'	1474312.5121	30.976129	9220.8844	0.018755	1.085	
			76845.8057	1.043911	4180.980	0.012236
67°15'	1476171.0799	30.976194	9222.0097	0.018742	1.084	
			76908.4404	1.045361	4190.190	0.012236
67°16'	1478029.6515	30.976259	9223.1342	0.018729	1.082	
			76971.1620	1.046814	4199.428	0.012236
67°17'	1479888.2271	30.976324	9224.2579	0.018716	1.081	
			77033.9708	1.048270	4208.693	0.012236
67°18'	1481746.8065	30.976388	9225.3809	0.018703	1.080	
			77096.8670	1.049729	4217.985	0.012236
67°19'	1483605.3898	30.976453	9226.5031	0.018690	1.078	
			77159.8507	1.051191	4227.304	0.012236
67°20'	1485463.9770	30.976518	9227.6244	0.018677	1.077	
			77222.9222	1.052657	4236.651	0.012235
67°21'	1487322.5681	30.976583	9228.7450	0.018664	1.076	
			77286.0816	1.054126	4246.025	0.012235
67°22'	1489181.1630	30.976647	9229.8649	0.018651	1.074	
			77349.3292	1.055598	4255.427	0.012235
67°23'	1491039.7619	30.976712	9230.9839	0.018638	1.073	
			77412.6651	1.057074	4264.856	0.012235
67°24'	1492898.3646	30.976776	9232.1022	0.018625	1.071	
			77476.0895	1.058552	4274.314	0.012235
67°25'	1494756.9712	30.976841	9233.2197	0.018612	1.070	
			77539.6026	1.060034	4283.799	0.012235
67°26'	1496615.5816	30.976906	9234.3363	0.018599	1.069	
			77603.2047	1.061520	4293.312	0.012235
67°27'	1498474.1960	30.976970	9235.4523	0.018586	1.067	
			77666.8959	1.063008	4302.853	0.012235
67°28'	1500332.8142	30.977034	9236.5674	0.018573	1.066	
			77730.6764	1.064500	4312.423	0.012235
67°29'	1502191.4362	30.977099	9237.6818	0.018560	1.065	
			77794.5464	1.065995	4322.021	0.012235
67°30'	1504050.0621	30.977163	9238.7953	0.018547	1.063	
			77858.5061	1.067494	4331.647	0.012235
67°31'	1505908.6919	30.977227	9239.9081	0.018533	1.062	
			77922.5557	1.068996	4341.302	0.012235
67°32'	1507767.3256	30.977292	9241.0201	0.018520	1.060	
			77986.6955	1.070501	4350.986	0.012235
67°33'	1509625.9631	30.977356	9242.1313	0.018507	1.059	
			78050.9256	1.072010	4360.698	0.012235

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0063	-0.0101	-0.0114

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
67°34'	1511484.6044	30.977420	9243.2418	0.018494	1.058	
			78115.2462	1.073522	4370.439	0.012235
67°35'	1513343.2497	30.977484	9244.3515	0.018481	1.056	
			78179.6575	1.075037	4380.209	0.012235
67°36'	1515201.8987	30.977548	9245.4603	0.018468	1.055	
			78244.1597	1.076556	4390.008	0.012235
67°37'	1517060.5516	30.977613	9246.5684	0.018455	1.054	
			78308.7531	1.078078	4399.837	0.012235
67°38'	1518919.2084	30.977677	9247.6757	0.018442	1.052	
			78373.4378	1.079604	4409.694	0.012235
67°39'	1520777.8690	30.977741	9248.7823	0.018429	1.051	
			78438.2140	1.081133	4419.581	0.012235
67°40'	1522636.5334	30.977805	9249.8880	0.018416	1.050	
			78503.0820	1.082665	4429.498	0.012235
67°41'	1524495.2017	30.977869	9250.9930	0.018403	1.048	
			78568.0419	1.084201	4439.444	0.012235
67°42'	1526353.8738	30.977932	9252.0972	0.018390	1.047	
			78633.0940	1.085741	4449.420	0.012235
67°43'	1528212.5497	30.977996	9253.2006	0.018377	1.045	
			78698.2384	1.087283	4459.426	0.012235
67°44'	1530071.2295	30.978060	9254.3032	0.018364	1.044	
			78763.4754	1.088830	4469.461	0.012235
67°45'	1531929.9131	30.978124	9255.4050	0.018351	1.043	
			78828.8052	1.090380	4479.527	0.012235
67°46'	1533788.6005	30.978188	9256.5061	0.018338	1.041	
			78894.2280	1.091933	4489.623	0.012235
67°47'	1535647.2918	30.978251	9257.6064	0.018325	1.040	
			78959.7439	1.093490	4499.749	0.012235
67°48'	1537505.9869	30.978315	9258.7058	0.018312	1.039	
			79025.3533	1.095050	4509.906	0.012235
67°49'	1539364.6858	30.978379	9259.8046	0.018299	1.037	
			79091.0563	1.096614	4520.093	0.012234
67°50'	1541223.3885	30.978442	9260.9025	0.018286	1.036	
			79156.8531	1.098181	4530.311	0.012234
67°51'	1543082.0950	30.978506	9261.9996	0.018273	1.035	
			79222.7440	1.099752	4540.559	0.012234
67°52'	1544940.8054	30.978569	9263.0960	0.018259	1.033	
			79288.7291	1.101327	4550.839	0.012234
67°53'	1546799.5196	30.978633	9264.1915	0.018246	1.032	
			79354.8087	1.102905	4561.149	0.012234
67°54'	1548658.2375	30.978696	9265.2863	0.018233	1.030	
			79420.9830	1.104486	4571.490	0.012234
67°55'	1550516.9593	30.978760	9266.3803	0.018220	1.029	
			79487.2522	1.106072	4581.863	0.012234

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0066	-0.0106	-0.0119

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
67°56'	1552375.6849	30.978823	9267.4735	0.018207	1.028	
			79553.6165	1.107660	4592.267	0.012234
67°57'	1554234.4143	30.978886	9268.5660	0.018194	1.026	
			79620.0761	1.109253	4602.702	0.012234
67°58'	1556093.1474	30.978950	9269.6576	0.018181	1.025	
			79686.6313	1.110849	4613.169	0.012234
67°59'	1557951.8844	30.979013	9270.7485	0.018168	1.024	
			79753.2822	1.112449	4623.668	0.012234
68° 0'	1559810.6252	30.979076	9271.8385	0.018155	1.022	
			79820.0291	1.114052	4634.199	0.012234
68° 1'	1561669.3698	30.979139	9272.9278	0.018142	1.021	
			79886.8722	1.115659	4644.761	0.012234
68° 2'	1563528.1181	30.979203	9274.0163	0.018129	1.020	
			79953.8118	1.117270	4655.356	0.012234
68° 3'	1565386.8703	30.979266	9275.1041	0.018116	1.018	
			80020.8480	1.118884	4665.982	0.012234
68° 4'	1567245.6262	30.979329	9276.1910	0.018103	1.017	
			80087.9810	1.120502	4676.641	0.012234
68° 5'	1569104.3860	30.979392	9277.2772	0.018090	1.016	
			80155.2111	1.122124	4687.333	0.012234
68° 6'	1570963.1495	30.979455	9278.3625	0.018076	1.014	
			80222.5385	1.123749	4698.057	0.012234
68° 7'	1572821.9167	30.979518	9279.4471	0.018063	1.013	
			80289.9635	1.125378	4708.813	0.012234
68° 8'	1574680.6878	30.979581	9280.5309	0.018050	1.011	
			80357.4862	1.127011	4719.603	0.012234
68° 9'	1576539.4626	30.979643	9281.6139	0.018037	1.010	
			80425.1069	1.128648	4730.425	0.012234
68°10'	1578398.2413	30.979706	9282.6962	0.018024	1.009	
			80492.8258	1.130288	4741.280	0.012234
68°11'	1580257.0236	30.979769	9283.7776	0.018011	1.007	
			80560.6431	1.131933	4752.169	0.012234
68°12'	1582115.8098	30.979832	9284.8583	0.017998	1.006	
			80628.5590	1.133581	4763.091	0.012234
68°13'	1583974.5997	30.979895	9285.9381	0.017985	1.005	
			80696.5739	1.135232	4774.046	0.012234
68°14'	1585833.3934	30.979957	9287.0172	0.017972	1.003	
			80764.6878	1.136888	4785.035	0.012234
68°15'	1587692.1908	30.980020	9288.0955	0.017959	1.002	
			80832.9011	1.138547	4796.057	0.012234
68°16'	1589550.9920	30.980083	9289.1730	0.017945	1.001	
			80901.2140	1.140211	4807.113	0.012234
68°17'	1591409.7970	30.980145	9290.2498	0.017932	0.999	
			80969.6266	1.141878	4818.203	0.012234

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0070	-0.0112	-0.0126

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
68°18'	1593268.6057	30.980208	9291.3257	0.017919	0.998	
			81038.1393	1.143549	4829.328	0.012234
68°19'	1595127.4181	30.980270	9292.4009	0.017906	0.997	
			81106.7522	1.145223	4840.486	0.012234
68°20'	1596986.2344	30.980333	9293.4752	0.017893	0.995	
			81175.4656	1.146902	4851.679	0.012233
68°21'	1598845.0543	30.980395	9294.5488	0.017880	0.994	
			81244.2797	1.148585	4862.906	0.012233
68°22'	1600703.8780	30.980457	9295.6216	0.017867	0.993	
			81313.1948	1.150271	4874.168	0.012233
68°23'	1602562.7055	30.980520	9296.6936	0.017854	0.991	
			81382.2111	1.151962	4885.465	0.012233
68°24'	1604421.5367	30.980582	9297.7649	0.017841	0.990	
			81451.3288	1.153656	4896.796	0.012233
68°25'	1606280.3716	30.980644	9298.8353	0.017828	0.989	
			81520.5481	1.155354	4908.163	0.012233
68°26'	1608139.2102	30.980707	9299.9049	0.017814	0.987	
			81589.8693	1.157056	4919.564	0.012233
68°27'	1609998.0526	30.980769	9300.9738	0.017801	0.986	
			81659.2927	1.158762	4931.001	0.012233
68°28'	1611856.8988	30.980831	9302.0419	0.017788	0.985	
			81728.8185	1.160472	4942.473	0.012233
68°29'	1613715.7486	30.980893	9303.1092	0.017775	0.983	
			81798.4468	1.162187	4953.981	0.012233
68°30'	1615574.6022	30.980955	9304.1757	0.017762	0.982	
			81868.1780	1.163905	4965.525	0.012233
68°31'	1617433.4595	30.981017	9305.2414	0.017749	0.980	
			81938.0123	1.165627	4977.104	0.012233
68°32'	1619292.3206	30.981079	9306.3063	0.017736	0.979	
			82007.9499	1.167353	4988.719	0.012233
68°33'	1621151.1853	30.981141	9307.3705	0.017723	0.978	
			82077.9911	1.169083	5000.371	0.012233
68°34'	1623010.0538	30.981203	9308.4338	0.017709	0.976	
			82148.1360	1.170817	5012.058	0.012233
68°35'	1624868.9260	30.981265	9309.4964	0.017696	0.975	
			82218.3851	1.172555	5023.782	0.012233
68°36'	1626727.8019	30.981327	9310.5582	0.017683	0.974	
			82288.7384	1.174298	5035.543	0.012233
68°37'	1628586.6815	30.981389	9311.6191	0.017670	0.972	
			82359.1963	1.176044	5047.340	0.012233
68°38'	1630445.5648	30.981450	9312.6793	0.017657	0.971	
			82429.7589	1.177795	5059.174	0.012233
68°39'	1632304.4518	30.981512	9313.7388	0.017644	0.970	
			82500.4266	1.179549	5071.045	0.012233

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0073	-0.0118	-0.0132

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
68°40'	1634163.3425	30.981574	9314.7974	0.017631	0.968	
			82571.1996	1.181308	5082.953	0.012233
68°41'	1636022.2370	30.981635	9315.8552	0.017617	0.967	
			82642.0781	1.183071	5094.898	0.012233
68°42'	1637881.1351	30.981697	9316.9123	0.017604	0.966	
			82713.0623	1.184838	5106.881	0.012233
68°43'	1639740.0369	30.981759	9317.9685	0.017591	0.964	
			82784.1526	1.186609	5118.901	0.012233
68°44'	1641598.9424	30.981820	9319.0240	0.017578	0.963	
			82855.3492	1.188385	5130.959	0.012233
68°45'	1643457.8516	30.981882	9320.0787	0.017565	0.962	
			82926.6522	1.190164	5143.054	0.012233
68°46'	1645316.7646	30.981943	9321.1326	0.017552	0.960	
			82998.0621	1.191948	5155.188	0.012233
68°47'	1647175.6811	30.982005	9322.1857	0.017539	0.959	
			83069.5790	1.193736	5167.360	0.012233
68°48'	1649034.6014	30.982066	9323.2380	0.017525	0.958	
			83141.2031	1.195528	5179.570	0.012233
68°49'	1650893.5254	30.982127	9324.2895	0.017512	0.956	
			83212.9348	1.197325	5191.818	0.012233
68°50'	1652752.4530	30.982189	9325.3403	0.017499	0.955	
			83284.7743	1.199125	5204.106	0.012232
68°51'	1654611.3843	30.982250	9326.3902	0.017486	0.954	
			83356.7218	1.200930	5216.431	0.012232
68°52'	1656470.3193	30.982311	9327.4394	0.017473	0.952	
			83428.7777	1.202740	5228.796	0.012232
68°53'	1658329.2580	30.982372	9328.4878	0.017460	0.951	
			83500.9420	1.204553	5241.200	0.012232
68°54'	1660188.2003	30.982433	9329.5353	0.017447	0.950	
			83573.2152	1.206371	5253.643	0.012232
68°55'	1662047.1463	30.982495	9330.5821	0.017433	0.948	
			83645.5975	1.208193	5266.125	0.012232
68°56'	1663906.0960	30.982556	9331.6281	0.017420	0.947	
			83718.0891	1.210020	5278.647	0.012232
68°57'	1665765.0493	30.982617	9332.6734	0.017407	0.946	
			83790.6903	1.211851	5291.208	0.012232
68°58'	1667624.0063	30.982678	9333.7178	0.017394	0.944	
			83863.4013	1.213686	5303.809	0.012232
68°59'	1669482.9670	30.982739	9334.7614	0.017381	0.943	
			83936.2225	1.215526	5316.451	0.012232
69° 0'	1671341.9313	30.982799	9335.8043	0.017368	0.942	
			84009.1540	1.217370	5329.132	0.012232
69° 1'	1673200.8993	30.982860	9336.8463	0.017354	0.940	
			84082.1962	1.219218	5341.854	0.012232

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0004	-0.0005	(XIV)	0.0000	-0.0077	-0.0124	-0.0139

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
69° 2'	1675059.8709	30.982921	9337.8876	0.017341	0.939	
			84155.3492	1.221071	5354.616	0.012232
69° 3'	1676918.8461	30.982982	9338.9281	0.017328	0.938	
			84228.6135	1.222928	5367.418	0.012232
69° 4'	1678777.8251	30.983043	9339.9677	0.017315	0.937	
			84301.9892	1.224790	5380.262	0.012232
69° 5'	1680636.8076	30.983103	9341.0066	0.017302	0.935	
			84375.4766	1.226656	5393.146	0.012232
69° 6'	1682495.7938	30.983164	9342.0447	0.017289	0.934	
			84449.0759	1.228527	5406.072	0.012232
69° 7'	1684354.7837	30.983225	9343.0821	0.017275	0.933	
			84522.7875	1.230402	5419.039	0.012232
69° 8'	1686213.7772	30.983285	9344.1186	0.017262	0.931	
			84596.6116	1.232281	5432.047	0.012232
69° 9'	1688072.7743	30.983346	9345.1543	0.017249	0.930	
			84670.5485	1.234166	5445.097	0.012232
69°10'	1689931.7750	30.983406	9346.1893	0.017236	0.929	
			84744.5984	1.236054	5458.188	0.012232
69°11'	1691790.7794	30.983467	9347.2234	0.017223	0.927	
			84818.7617	1.237948	5471.322	0.012232
69°12'	1693649.7874	30.983527	9348.2568	0.017209	0.926	
			84893.0385	1.239845	5484.497	0.012232
69°13'	1695508.7991	30.983588	9349.2893	0.017196	0.925	
			84967.4293	1.241748	5497.715	0.012232
69°14'	1697367.8143	30.983648	9350.3211	0.017183	0.923	
			85041.9341	1.243655	5510.975	0.012232
69°15'	1699226.8332	30.983708	9351.3521	0.017170	0.922	
			85116.5534	1.245566	5524.278	0.012232
69°16'	1701085.8557	30.983769	9352.3823	0.017157	0.921	
			85191.2874	1.247483	5537.624	0.012232
69°17'	1702944.8818	30.983829	9353.4117	0.017144	0.919	
			85266.1363	1.249403	5551.013	0.012232
69°18'	1704803.9116	30.983889	9354.4403	0.017130	0.918	
			85341.1005	1.251329	5564.444	0.012232
69°19'	1706662.9449	30.983949	9355.4681	0.017117	0.917	
			85416.1803	1.253259	5577.919	0.012232
69°20'	1708521.9819	30.984009	9356.4952	0.017104	0.915	
			85491.3758	1.255194	5591.438	0.012232
69°21'	1710381.0225	30.984070	9357.5214	0.017091	0.914	
			85566.6875	1.257133	5605.000	0.012232
69°22'	1712240.0666	30.984130	9358.5468	0.017078	0.913	
			85642.1155	1.259078	5618.606	0.012231
69°23'	1714099.1144	30.984190	9359.5715	0.017064	0.911	
			85717.6601	1.261027	5632.256	0.012231

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0082	-0.0131	-0.0147

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
69°24'	1715958.1658	30.984250	9360.5954	0.017051	0.910	
			85793.3217	1.262980	5645.950	0.012231
69°25'	1717817.2207	30.984309	9361.6184	0.017038	0.909	
			85869.1005	1.264939	5659.689	0.012231
69°26'	1719676.2793	30.984369	9362.6407	0.017025	0.908	
			85944.9969	1.266902	5673.472	0.012231
69°27'	1721535.3415	30.984429	9363.6622	0.017012	0.906	
			86021.0110	1.268870	5687.300	0.012231
69°28'	1723394.4072	30.984489	9364.6829	0.016998	0.905	
			86097.1432	1.270843	5701.172	0.012231
69°29'	1725253.4766	30.984549	9365.7028	0.016985	0.904	
			86173.3938	1.272821	5715.090	0.012231
69°30'	1727112.5495	30.984608	9366.7219	0.016972	0.902	
			86249.7630	1.274803	5729.053	0.012231
69°31'	1728971.6260	30.984668	9367.7402	0.016959	0.901	
			86326.2512	1.276791	5743.062	0.012231
69°32'	1730830.7061	30.984728	9368.7577	0.016946	0.900	
			86402.8587	1.278783	5757.116	0.012231
69°33'	1732689.7898	30.984787	9369.7745	0.016932	0.898	
			86479.5856	1.280780	5771.216	0.012231
69°34'	1734548.8770	30.984847	9370.7904	0.016919	0.897	
			86556.4324	1.282782	5785.362	0.012231
69°35'	1736407.9678	30.984907	9371.8055	0.016906	0.896	
			86633.3994	1.284789	5799.554	0.012231
69°36'	1738267.0622	30.984966	9372.8199	0.016893	0.894	
			86710.4867	1.286801	5813.792	0.012231
69°37'	1740126.1602	30.985025	9373.8335	0.016879	0.893	
			86787.6947	1.288818	5828.078	0.012231
69°38'	1741985.2617	30.985085	9374.8462	0.016866	0.892	
			86865.0238	1.290839	5842.409	0.012231
69°39'	1743844.3668	30.985144	9375.8582	0.016853	0.891	
			86942.4741	1.292866	5856.788	0.012231
69°40'	1745703.4755	30.985204	9376.8694	0.016840	0.889	
			87020.0461	1.294898	5871.214	0.012231
69°41'	1747562.5877	30.985263	9377.8798	0.016827	0.888	
			87097.7400	1.296935	5885.688	0.012231
69°42'	1749421.7034	30.985322	9378.8893	0.016813	0.887	
			87175.5560	1.298976	5900.208	0.012231
69°43'	1751280.8228	30.985381	9379.8981	0.016800	0.885	
			87253.4946	1.301023	5914.777	0.012231
69°44'	1753139.9457	30.985440	9380.9061	0.016787	0.884	
			87331.5560	1.303075	5929.394	0.012231
69°45'	1754999.0721	30.985500	9381.9134	0.016774	0.883	
			87409.7405	1.305132	5944.058	0.012231

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0086	-0.0138	-0.0155

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
69°46'	1756858.2021	30.985559	9382.9198	0.016760	0.881	
			87488.0484	1.307194	5958.771	0.012231
69°47'	1758717.3356	30.985618	9383.9254	0.016747	0.880	
			87566.4801	1.309261	5973.533	0.012231
69°48'	1760576.4727	30.985677	9384.9302	0.016734	0.879	
			87645.0358	1.311334	5988.343	0.012231
69°49'	1762435.6133	30.985736	9385.9343	0.016721	0.878	
			87723.7158	1.313411	6003.202	0.012231
69°50'	1764294.7574	30.985795	9386.9375	0.016707	0.876	
			87802.5204	1.315494	6018.111	0.012231
69°51'	1766153.9051	30.985854	9387.9399	0.016694	0.875	
			87881.4500	1.317581	6033.068	0.012231
69°52'	1768013.0563	30.985912	9388.9416	0.016681	0.874	
			87960.5049	1.319674	6048.075	0.012231
69°53'	1769872.2110	30.985971	9389.9425	0.016668	0.872	
			88039.6854	1.321773	6063.132	0.012231
69°54'	1771731.3693	30.986030	9390.9425	0.016654	0.871	
			88118.9918	1.323876	6078.239	0.012230
69°55'	1773590.5311	30.986089	9391.9418	0.016641	0.870	
			88198.4243	1.325985	6093.396	0.012230
69°56'	1775449.6964	30.986147	9392.9403	0.016628	0.868	
			88277.9834	1.328099	6108.604	0.012230
69°57'	1777308.8653	30.986206	9393.9379	0.016615	0.867	
			88357.6693	1.330218	6123.861	0.012230
69°58'	1779168.0376	30.986265	9394.9348	0.016601	0.866	
			88437.4824	1.332342	6139.170	0.012230
69°59'	1781027.2135	30.986323	9395.9309	0.016588	0.865	
			88517.4229	1.334472	6154.530	0.012230
70° 0'	1782886.3929	30.986382	9396.9262	0.016575	0.863	
			88597.4913	1.336608	6169.941	0.012230
70° 1'	1784745.5758	30.986440	9397.9207	0.016562	0.862	
			88677.6877	1.338748	6185.403	0.012230
70° 2'	1786604.7622	30.986499	9398.9144	0.016548	0.861	
			88758.0126	1.340894	6200.917	0.012230
70° 3'	1788463.9521	30.986557	9399.9073	0.016535	0.859	
			88838.4663	1.343045	6216.483	0.012230
70° 4'	1790323.1456	30.986615	9400.8994	0.016522	0.858	
			88919.0490	1.345202	6232.101	0.012230
70° 5'	1792182.3425	30.986674	9401.8907	0.016509	0.857	
			88999.7611	1.347364	6247.771	0.012230
70° 6'	1794041.5429	30.986732	9402.8813	0.016495	0.856	
			89080.6030	1.349532	6263.494	0.012230
70° 7'	1795900.7468	30.986790	9403.8710	0.016482	0.854	
			89161.5749	1.351705	6279.269	0.012230

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0091	-0.0146	-0.0164

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
70° 8'	1797759.9543	30.986848	9404.8599	0.016469	0.853	
			89242.6772	1.353883	6295.098	0.012230
70° 9'	1799619.1652	30.986907	9405.8481	0.016456	0.852	
			89323.9102	1.356067	6310.979	0.012230
70°10'	1801478.3796	30.986965	9406.8354	0.016442	0.850	
			89405.2742	1.358257	6326.914	0.012230
70°11'	1803337.5974	30.987023	9407.8219	0.016429	0.849	
			89486.7696	1.360452	6342.903	0.012230
70°12'	1805196.8188	30.987081	9408.8077	0.016416	0.848	
			89568.3968	1.362653	6358.945	0.012230
70°13'	1807056.0437	30.987139	9409.7926	0.016403	0.847	
			89650.1559	1.364859	6375.042	0.012230
70°14'	1808915.2720	30.987197	9410.7768	0.016389	0.845	
			89732.0475	1.367071	6391.193	0.012230
70°15'	1810774.5038	30.987255	9411.7602	0.016376	0.844	
			89814.0717	1.369288	6407.398	0.012230
70°16'	1812633.7391	30.987313	9412.7427	0.016363	0.843	
			89896.2290	1.371511	6423.658	0.012230
70°17'	1814492.9779	30.987370	9413.7245	0.016349	0.841	
			89978.5197	1.373740	6439.973	0.012230
70°18'	1816352.2201	30.987428	9414.7054	0.016336	0.840	
			90060.9441	1.375974	6456.344	0.012230
70°19'	1818211.4658	30.987486	9415.6856	0.016323	0.839	
			90143.5026	1.378215	6472.769	0.012230
70°20'	1820070.7149	30.987544	9416.6650	0.016310	0.838	
			90226.1954	1.380460	6489.251	0.012230
70°21'	1821929.9676	30.987601	9417.6436	0.016296	0.836	
			90309.0230	1.382712	6505.788	0.012230
70°22'	1823789.2236	30.987659	9418.6214	0.016283	0.835	
			90391.9858	1.384969	6522.382	0.012230
70°23'	1825648.4832	30.987717	9419.5983	0.016270	0.834	
			90475.0839	1.387232	6539.032	0.012230
70°24'	1827507.7462	30.987774	9420.5745	0.016257	0.832	
			90558.3178	1.389501	6555.738	0.012230
70°25'	1829367.0126	30.987832	9421.5499	0.016243	0.831	
			90641.6879	1.391776	6572.502	0.012230
70°26'	1831226.2825	30.987889	9422.5245	0.016230	0.830	
			90725.1944	1.394056	6589.323	0.012229
70°27'	1833085.5559	30.987947	9423.4983	0.016217	0.829	
			90808.8378	1.396342	6606.201	0.012229
70°28'	1834944.8327	30.988004	9424.4713	0.016203	0.827	
			90892.6183	1.398634	6623.136	0.012229
70°29'	1836804.1129	30.988061	9425.4435	0.016190	0.826	
			90976.5364	1.400932	6640.130	0.012229

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0096	-0.0154	-0.0173

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
70°30'	1838663.3966	30.988119	9426.4149	0.016177	0.825	
			91060.5923	1.403236	6657.181	0.012229
70°31'	1840522.6837	30.988176	9427.3855	0.016163	0.824	
			91144.7865	1.405546	6674.291	0.012229
70°32'	1842381.9743	30.988233	9428.3553	0.016150	0.822	
			91229.1193	1.407862	6691.460	0.012229
70°33'	1844241.2682	30.988290	9429.3243	0.016137	0.821	
			91313.5910	1.410184	6708.687	0.012229
70°34'	1846100.5657	30.988347	9430.2925	0.016124	0.820	
			91398.2020	1.412512	6725.974	0.012229
70°35'	1847959.8665	30.988405	9431.2600	0.016110	0.818	
			91482.9527	1.414845	6743.320	0.012229
70°36'	1849819.1708	30.988462	9432.2266	0.016097	0.817	
			91567.8434	1.417185	6760.726	0.012229
70°37'	1851678.4785	30.988519	9433.1924	0.016084	0.816	
			91652.8746	1.419531	6778.191	0.012229
70°38'	1853537.7896	30.988576	9434.1574	0.016070	0.815	
			91738.0464	1.421883	6795.717	0.012229
70°39'	1855397.1041	30.988632	9435.1216	0.016057	0.813	
			91823.3594	1.424241	6813.303	0.012229
70°40'	1857256.4221	30.988689	9436.0851	0.016044	0.812	
			91908.8139	1.426605	6830.949	0.012229
70°41'	1859115.7434	30.988746	9437.0477	0.016030	0.811	
			91994.4102	1.428975	6848.657	0.012229
70°42'	1860975.0682	30.988803	9438.0095	0.016017	0.810	
			92080.1487	1.431352	6866.425	0.012229
70°43'	1862834.3964	30.988860	9438.9705	0.016004	0.808	
			92166.0298	1.433734	6884.256	0.012229
70°44'	1864693.7280	30.988917	9439.9308	0.015991	0.807	
			92252.0538	1.436123	6902.148	0.012229
70°45'	1866553.0630	30.988973	9440.8902	0.015977	0.806	
			92338.2212	1.438518	6920.102	0.012229
70°46'	1868412.4014	30.989030	9441.8488	0.015964	0.805	
			92424.5323	1.440919	6938.118	0.012229
70°47'	1870271.7431	30.989086	9442.8067	0.015951	0.803	
			92510.9875	1.443327	6956.196	0.012229
70°48'	1872131.0883	30.989143	9443.7637	0.015937	0.802	
			92597.5871	1.445741	6974.338	0.012229
70°49'	1873990.4369	30.989200	9444.7199	0.015924	0.801	
			92684.3315	1.448161	6992.542	0.012229
70°50'	1875849.7889	30.989256	9445.6754	0.015911	0.799	
			92771.2212	1.450587	7010.810	0.012229
70°51'	1877709.1442	30.989312	9446.6300	0.015897	0.798	
			92858.2564	1.453020	7029.142	0.012229

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0102	-0.0163	-0.0183

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
70°52'	1879568.5030	30.989369	9447.5838	0.015884	0.797	
			92945.4376	1.455459	7047.537	0.012229
70°53'	1881427.8651	30.989425	9448.5369	0.015871	0.796	
			93032.7652	1.457905	7065.997	0.012229
70°54'	1883287.2306	30.989482	9449.4891	0.015857	0.794	
			93120.2394	1.460357	7084.521	0.012229
70°55'	1885146.5995	30.989538	9450.4406	0.015844	0.793	
			93207.8608	1.462815	7103.109	0.012229
70°56'	1887005.9718	30.989594	9451.3912	0.015831	0.792	
			93295.6297	1.465280	7121.763	0.012229
70°57'	1888865.3475	30.989650	9452.3410	0.015817	0.791	
			93383.5465	1.467751	7140.482	0.012229
70°58'	1890724.7265	30.989706	9453.2901	0.015804	0.789	
			93471.6116	1.470229	7159.267	0.012229
70°59'	1892584.1088	30.989762	9454.2383	0.015791	0.788	
			93559.8253	1.472713	7178.117	0.012229
71° 0'	1894443.4946	30.989819	9455.1858	0.015777	0.787	
			93648.1881	1.475204	7197.034	0.012228
71° 1'	1896302.8837	30.989875	9456.1324	0.015764	0.786	
			93736.7004	1.477702	7216.017	0.012228
71° 2'	1898162.2762	30.989931	9457.0782	0.015751	0.784	
			93825.3625	1.480206	7235.067	0.012228
71° 3'	1900021.6720	30.989987	9458.0233	0.015737	0.783	
			93914.1748	1.482717	7254.184	0.012228
71° 4'	1901881.0712	30.990042	9458.9675	0.015724	0.782	
			94003.1378	1.485234	7273.368	0.012228
71° 5'	1903740.4738	30.990098	9459.9110	0.015711	0.781	
			94092.2519	1.487758	7292.620	0.012228
71° 6'	1905599.8797	30.990154	9460.8536	0.015697	0.779	
			94181.5173	1.490289	7311.940	0.012228
71° 7'	1907459.2889	30.990210	9461.7954	0.015684	0.778	
			94270.9346	1.492826	7331.328	0.012228
71° 8'	1909318.7015	30.990266	9462.7365	0.015671	0.777	
			94360.5042	1.495370	7350.785	0.012228
71° 9'	1911178.1174	30.990321	9463.6767	0.015657	0.776	
			94450.2264	1.497921	7370.310	0.012228
71°10'	1913037.5367	30.990377	9464.6161	0.015644	0.774	
			94540.1017	1.500479	7389.905	0.012228
71°11'	1914896.9593	30.990433	9465.5548	0.015631	0.773	
			94630.1304	1.503043	7409.569	0.012228
71°12'	1916756.3853	30.990488	9466.4926	0.015617	0.772	
			94720.3130	1.505615	7429.302	0.012228
71°13'	1918615.8146	30.990544	9467.4296	0.015604	0.771	
			94810.6499	1.508193	7449.106	0.012228

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0108	-0.0173	-0.0194

Transverse Mercator projection tables

ALASKA 2 - 9 Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
71°14'	1920475.2472	30.990599	9468.3659	0.015591	0.769	
			94901.1415	1.510778	7468.981	0.012228
71°15'	1922334.6831	30.990655	9469.3013	0.015577	0.768	
			94991.7882	1.513370	7488.925	0.012228
71°16'	1924194.1224	30.990710	9470.2359	0.015564	0.767	
			95082.5904	1.515969	7508.941	0.012228
71°17'	1926053.5650	30.990765	9471.1698	0.015550	0.766	
			95173.5485	1.518575	7529.029	0.012228
71°18'	1927913.0109	30.990821	9472.1028	0.015537	0.764	
			95264.6630	1.521188	7549.187	0.012228
71°19'	1929772.4601	30.990876	9473.0350	0.015524	0.763	
			95355.9343	1.523808	7569.418	0.012228
71°20'	1931631.9127	30.990931	9473.9664	0.015510	0.762	
			95447.3627	1.526435	7589.721	0.012228
71°21'	1933491.3686	30.990986	9474.8970	0.015497	0.761	
			95538.9488	1.529069	7610.097	0.012228
71°22'	1935350.8277	30.991041	9475.8269	0.015484	0.759	
			95630.6929	1.531710	7630.546	0.012228
71°23'	1937210.2902	30.991097	9476.7559	0.015470	0.758	
			95722.5955	1.534358	7651.068	0.012228
71°24'	1939069.7560	30.991152	9477.6841	0.015457	0.757	
			95814.6570	1.537013	7671.663	0.012228
71°25'	1940929.2251	30.991207	9478.6115	0.015444	0.756	
			95906.8777	1.539676	7692.333	0.012228

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0002	-0.0004	-0.0004	(XIV)	0.0000	-0.0108	-0.0173	-0.0194

TRANSVERSE MERCATOR PROJECTION

TABLES FOR ARIZONA COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ARIZONA EAST
ZONE CODE: 0201

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 31° 0' (latitude of grid origin)
λ_b = 110°10' (longitude of origin and Central Meridian, CM)
E_0 = 213360 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from φ_{min} = 31°00' to φ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 31°15'23".54600
LONGITUDE: 111°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.37637550
TABULAR (I) = 27715.1322
23.54600 sec = 725.1045
SECOND DIFF = -0.0006
(I) = 28440.2361
TABULAR (II) = 3327.0601
23.54600 sec = 0.3963
(II) = 3327.4566
TABULAR (III) = 2.2272
$N = (I) + (II)p^2 + (III)p^4$ = 28911.643 m

TABULAR (IV) = 264568.5383
23.54600 sec = -18.2414
SECOND DIFF = 0.0027
(IV) = 264550.2996
TABULAR (V) = 48.2298
23.54600 sec = -0.0244
(V) = 48.2054
TABULAR (VI) = -0.0099
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -99572.821 m
$E = E_0 + E'$ = 113787.179 m

TABULAR (XII) = 5187.7326
23.54600 sec = 0.9758
(XII) = 5188.7084
TABULAR (XIII) = 3.0147
$C = (XII)p + (XIII)p^3$ = -1953".06

$q = 10^{-6} E'$ = -0.09957282
TABULAR (XVI) = 0.012332
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00002226

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.09957282$

$\varphi' = 31°15'38''.85380$

TABULAR	(VII) =	1543.4813
38.85380 sec	=	0.6522
	(VII) =	1544.1335
TABULAR	(VIII) =	19.2345
38.85380 sec	=	0.0110
	(VIII) =	19.2455

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

TABULAR	(IX) =	37797.3892
38.85380 sec	=	4.3010
SECOND DIFF	=	-0.0006
	(IX) =	37801.6896
TABULAR	(X) =	269.2271
38.85380 sec	=	0.1269
	(X) =	269.3540
TABULAR	(XI) =	3.5304
38.85380 sec	=	0.0031
	(XI) =	3.5335

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 111°12'43''.75493$

TABULAR	(XIV) =	19608.2747
38.85380 sec	=	8.3186
SECOND DIFF	=	-0.0005
	(XIV) =	19616.5928
TABULAR	(XV) =	218.6803
38.85380 sec	=	0.1429
	(XV) =	218.8233

$C = (XIV)q - (XV)q^3 = -1953''.06$

TABULAR (XVI) = 0.012332

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00002226$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ARIZONA CENTRAL
ZONE CODE: 0202

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 31° 0' (latitude of grid origin)
λ_b = 111°55' (longitude of origin and Central Meridian, CM)
E_0 = 213360 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from φ_{min} = 31°00' to φ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 31°15'23".54600
LONGITUDE: 113° 0' 1".12300

$p = 10^{-4}\Delta\lambda$ = -0.39011230
TABULAR (I) = 27715.1322
23.54600 sec = 725.1045
SECOND DIFF = -0.0006
(I) = 28440.2361
TABULAR (II) = 3327.0601
23.54600 sec = 0.3963
(II) = 3327.4566
TABULAR (III) = 2.2272
$N = (I) + (II)p^2 + (III)p^4$ = 28946.685 m

TABULAR (IV) = 264568.5383
23.54600 sec = -18.2414
SECOND DIFF = 0.0027
(IV) = 264550.2996
TABULAR (V) = 48.2298
23.54600 sec = -0.0244
(V) = 48.2054
TABULAR (VI) = -0.0099
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -103207.188 m
$E = E_0 + E'$ = 110152.812 m

TABULAR (XII) = 5187.7326
23.54600 sec = 0.9758
(XII) = 5188.7084
TABULAR (XIII) = 3.0147
$C = (XII)p + (XIII)p^3$ = -2024".36

$q = 10^{-6} E'$ = -0.10320719
TABULAR (XVI) = 0.012332
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00003134

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.10320719$

$\varphi' = 31°15'39''.99170$

```
TABULAR  ( VII) =    1543.4813
   39.99170 sec =       0.6713
         ( VII) =    1544.1526
TABULAR  (VIII) =      19.2345
   39.99170 sec =       0.0114
         (VIII) =      19.2458
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

```
TABULAR  (  IX) =   37797.3892
   39.99170 sec =       4.4270
   SECOND DIFF  =      -0.0006
         (  IX) =   37801.8155
TABULAR  (   X) =     269.2271
   39.99170 sec =       0.1307
         (   X) =     269.3577
TABULAR  (  XI) =       3.5304
   39.99170 sec =       0.0032
         (  XI) =       3.5336
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 113°0'1''.12292$

```
TABULAR  ( XIV) =  19608.2737
   9.99170 sec  =       8.5623
   SECOND DIFF  =      -0.0005
         ( XIV) =   19616.8365
TABULAR  (  XV) =     218.6803
   39.99170 sec =       0.1471
         (  XV) =     218.8274
```

$C = (XIV)q - (XV)q^3 = -2024''.36$

```
TABULAR  ( XVI) =     0.012332
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00003134$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ARIZONA WEST
ZONE CODE: 0203

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 31° 0' (latitude of grid origin)
λ_b = 113°45' (longitude of origin and Central Meridian, CM)
E_0 = 213360 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999933 (scale along Central Meridian)
latitude range from φ_{min} = 31°00' to φ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 31°15'23".54600
LONGITUDE: 114°51'22".82000

$p = 10^{-4}\Delta\lambda$ = -0.39828200
TABULAR (I) = 27716.0561
23.54600 sec = 725.1287
SECOND DIFF = -0.0006
(I) = 28441.1842
TABULAR (II) = 3327.1710
23.54600 sec = 0.3963
(II) = 3327.5675
TABULAR (III) = 2.2273
$N = (I) + (II)p^2 + (III)p^4$ = 28969.087 m

TABULAR (IV) = 264577.3581
23.54600 sec = -18.2420
SECOND DIFF = 0.0027
(IV) = 264559.1188
TABULAR (V) = 48.2314
23.54600 sec = -0.0244
(V) = 48.2070
TABULAR (VI) = -0.0099
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -105372.181 m
$E = E_0 + E'$ = 107987.819 m

TABULAR (XII) = 5187.7326
23.54600 sec = 0.9758
(XII) = 5188.7084
TABULAR (XIII) = 3.0147
$C = (XII)p + (XIII)p^3$ = -2066".76

$q = 10^{-6} E'$ = -0.10537218
TABULAR (XVI) = 0.012332
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00007024

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6}\ E' = -0.10537218$

$\varphi' = 31°15'40''.68780$

```
TABULAR  ( VII) =    1543.3784
   40.68780 sec =       0.6830
         ( VII) =    1544.0613
TABULAR  (VIII) =      19.2319
   40.68780 sec =       0.0116
         (VIII) =      19.2435
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

```
TABULAR  (  IX) =   37796.1292
   40.68780 sec =       4.5039
   SECOND DIFF  =      -0.0006
         (  IX) =   37800.6325
TABULAR  (   X) =     269.2001
   40.68780 sec =       0.1329
         (   X) =     269.3331
TABULAR  (  XI) =       3.5298
   40.68780 sec =       0.0033
         (  XI) =       3.5331
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 114°51'22''.81991$

```
TABULAR  ( XIV) =   19607.6211
   40.68780 sec =       8.7110
   SECOND DIFF  =      -0.0005
         ( XIV) =   19616.3316
TABULAR  (  XV) =     218.6584
   40.68780 sec =       0.1497
         (  XV) =     218.8081
```

$C = (XIV)q - (XV)q^3 = -2066''.76$

```
TABULAR  ( XVI) =     0.012332
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00007024$

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31° 0'	0.0000	30.794033	3311.7766	0.017112	2.232
	265263.0887	-0.769105	49.1629	-0.001037	-0.009
31° 1'	1847.6420	30.794113	3312.8033	0.017094	2.232
	265216.9424	-0.769480	49.1007	-0.001037	-0.009
31° 2'	3695.2888	30.794193	3313.8289	0.017075	2.232
	265170.7736	-0.769854	49.0385	-0.001037	-0.009
31° 3'	5542.9404	30.794272	3314.8534	0.017056	2.231
	265124.5824	-0.770228	48.9763	-0.001037	-0.009
31° 4'	7390.5967	30.794352	3315.8768	0.017038	2.231
	265078.3687	-0.770602	48.9141	-0.001037	-0.009
31° 5'	9238.2578	30.794432	3316.8991	0.017019	2.231
	265032.1326	-0.770976	48.8519	-0.001037	-0.009
31° 6'	11085.9237	30.794511	3317.9203	0.017000	2.230
	264985.8741	-0.771350	48.7897	-0.001037	-0.01
31° 7'	12933.5944	30.794591	3318.9403	0.016982	2.230
	264939.5931	-0.771723	48.7275	-0.001037	-0.01
31° 8'	14781.2699	30.794671	3319.9592	0.016963	2.230
	264893.2897	-0.772097	48.6653	-0.001037	-0.01
31° 9'	16628.9501	30.794751	3320.9770	0.016944	2.229
	264846.9639	-0.772471	48.6031	-0.001037	-0.01
31°10'	18476.6351	30.794830	3321.9936	0.016926	2.229
	264800.6157	-0.772844	48.5408	-0.001037	-0.01
31°11'	20324.3250	30.794910	3323.0092	0.016907	2.229
	264754.2450	-0.773218	48.4786	-0.001037	-0.01
31°12'	22172.0196	30.794990	3324.0236	0.016888	2.228
	264707.8519	-0.773591	48.4164	-0.001037	-0.01
31°13'	24019.7190	30.795070	3325.0369	0.016870	2.228
	264661.4364	-0.773965	48.3542	-0.001037	-0.01
31°14'	25867.4232	30.795150	3326.0491	0.016851	2.228
	264614.9986	-0.774338	48.2920	-0.001037	-0.01
31°15'	27715.1322	30.795230	3327.0601	0.016832	2.227
	264568.5383	-0.774711	48.2298	-0.001037	-0.01
31°16'	29562.8460	30.795310	3328.0701	0.016813	2.227
	264522.0556	-0.775085	48.1675	-0.001037	-0.01
31°17'	31410.5646	30.795390	3329.0789	0.016795	2.227
	264475.5505	-0.775458	48.1053	-0.001037	-0.010
31°18'	33258.2880	30.795470	3330.0865	0.016776	2.226
	264429.0230	-0.775831	48.0431	-0.001037	-0.010
31°19'	35106.0162	30.795550	3331.0931	0.016757	2.226
	264382.4732	-0.776204	47.9809	-0.001037	-0.010

31°20'	36953.7492	30.795630	3332.0985	0.016738	2.225
	264335.9009	-0.776577	47.9187	-0.001037	-0.010
31°21'	38801.4869	30.795710	3333.1028	0.016720	2.225
	264289.3063	-0.776950	47.8564	-0.001037	-0.010

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(IV)0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°22'	40649.2295	30.795790	3334.1060	0.016701	2.225
	264242.6893	-0.777323	47.7942	-0.001037	-0.010
31°23'	42496.9770	30.795870	3335.1081	0.016682	2.224
	264196.0500	-0.777696	47.7320	-0.001037	-0.010
31°24'	44344.7292	30.795950	3336.1090	0.016663	2.224
	264149.3882	-0.778068	47.6697	-0.001037	-0.010
31°25'	46192.4862	30.796031	3337.1088	0.016645	2.224
	264102.7041	-0.778441	47.6075	-0.001037	-0.010
31°26'	48040.2480	30.796111	3338.1075	0.016626	2.223
	264055.9977	-0.778814	47.5453	-0.001037	-0.010
31°27'	49888.0147	30.796191	3339.1050	0.016607	2.223
	264009.2689	-0.779186	47.4831	-0.001037	-0.010
31°28'	51735.7861	30.796271	3340.1015	0.016588	2.223
	263962.5177	-0.779559	47.4208	-0.001037	-0.011
31°29'	53583.5624	30.796351	3341.0967	0.016569	2.222
	263915.7442	-0.779931	47.3586	-0.001037	-0.011
31°30'	55431.3435	30.796432	3342.0909	0.016551	2.222
	263868.9483	-0.780303	47.2964	-0.001037	-0.011
31°31'	57279.1294	30.796512	3343.0839	0.016532	2.221
	263822.1301	-0.780676	47.2341	-0.001037	-0.011
31°32'	59126.9201	30.796592	3344.0759	0.016513	2.221
	263775.2896	-0.781048	47.1719	-0.001037	-0.011
31°33'	60974.7157	30.796673	3345.0666	0.016494	2.221
	263728.4267	-0.781420	47.1096	-0.001037	-0.011
31°34'	62822.5160	30.796753	3346.0563	0.016475	2.220
	263681.5415	-0.781792	47.0474	-0.001037	-0.011
31°35'	64670.3212	30.796834	3347.0448	0.016456	2.220
	263634.6340	-0.782164	46.9852	-0.001037	-0.011
31°36'	66518.1312	30.796914	3348.0322	0.016438	2.220
	263587.7042	-0.782536	46.9229	-0.001037	-0.011
31°37'	68365.9461	30.796995	3349.0184	0.016419	2.219
	263540.7520	-0.782908	46.8607	-0.001037	-0.011
31°38'	70213.7658	30.797075	3350.0036	0.016400	2.219
	263493.7775	-0.783280	46.7985	-0.001037	-0.011
31°39'	72061.5903	30.797156	3350.9876	0.016381	2.218
	263446.7808	-0.783652	46.7362	-0.001037	-0.011
31°40'	73909.4196	30.797236	3351.9704	0.016362	2.218
	263399.7617	-0.784023	46.6740	-0.001037	-0.011
31°41'	75757.2538	30.797317	3352.9522	0.016343	2.218
	263352.7203	-0.784395	46.6117	-0.001037	-0.011

31°42'	77605.0928	30.797397	3353.9328	0.016324	2.217
	263305.6566	-0.784766	46.5495	-0.001037	-0.011
31°43'	79452.9366	30.797478	3354.9122	0.016306	2.217
	263258.5706	-0.785138	46.4873	-0.001037	-0.011

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV) 0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°44'	81300.7853	30.797558	3355.8906	0.016287	2.216
	263211.4623	-0.785509	46.4250	-0.001037	-0.011
31°45'	83148.6388	30.797639	3356.8678	0.016268	2.216
	263164.3318	-0.785881	46.3628	-0.001037	-0.011
31°46'	84996.4971	30.797720	3357.8438	0.016249	2.216
	263117.1789	-0.786252	46.3005	-0.001037	-0.011
31°47'	86844.3603	30.797801	3358.8188	0.016230	2.215
	263070.0038	-0.786623	46.2383	-0.001037	-0.011
31°48'	88692.2283	30.797881	3359.7926	0.016211	2.215
	263022.8064	-0.786995	46.1760	-0.001037	-0.011
31°49'	90540.1012	30.797962	3360.7652	0.016192	2.214
	262975.5867	-0.787366	46.1138	-0.001037	-0.011
31°50'	92387.9789	30.798043	3361.7368	0.016173	2.214
	262928.3448	-0.787737	46.0516	-0.001037	-0.012
31°51'	94235.8615	30.798124	3362.7071	0.016154	2.214
	262881.0805	-0.788108	45.9893	-0.001037	-0.012
31°52'	96083.7489	30.798204	3363.6764	0.016135	2.213
	262833.7941	-0.788479	45.9271	-0.001037	-0.012
31°53'	97931.6412	30.798285	3364.6445	0.016116	2.213
	262786.4854	-0.788850	45.8648	-0.001037	-0.012
31°54'	99779.5383	30.798366	3365.6115	0.016097	2.212
	262739.1544	-0.789220	45.8026	-0.001037	-0.012
31°55'	101627.4403	30.798447	3366.5774	0.016079	2.212
	262691.8011	-0.789591	45.7403	-0.001037	-0.012
31°56'	103475.3471	30.798528	3367.5421	0.016060	2.212
	262644.4257	-0.789962	45.6781	-0.001037	-0.012
31°57'	105323.2588	30.798609	3368.5056	0.016041	2.211
	262597.0280	-0.790332	45.6159	-0.001037	-0.012
31°58'	107171.1753	30.798690	3369.4681	0.016022	2.211
	262549.6080	-0.790703	45.5536	-0.001037	-0.012
31°59'	109019.0967	30.798771	3370.4294	0.016003	2.210
	262502.1658	-0.791074	45.4914	-0.001037	-0.012
32° 0'	110867.0229	30.798852	3371.3895	0.015984	2.210
	262454.7014	-0.791444	45.4291	-0.001037	-0.012
32° 1'	112714.9540	30.798933	3372.3486	0.015965	2.209
	262407.2148	-0.791814	45.3669	-0.001037	-0.012
32° 2'	114562.8900	30.799014	3373.3065	0.015946	2.209
	262359.7059	-0.792185	45.3047	-0.001037	-0.012
32° 3'	116410.8309	30.799095	3374.2632	0.015927	2.209
	262312.1748	-0.792555	45.2424	-0.001037	-0.012

32° 4'	118258.7766	30.799176	3375.2188	0.015908	2.208
	262264.6216	-0.792925	45.1802	-0.001037	-0.012
32° 5'	120106.7271	30.799257	3376.1733	0.015889	2.208
	262217.0461	-0.793295	45.1180	-0.001037	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32° 6'	121954.6826	30.799338	3377.1266	0.015870	2.207
	262169.4483	-0.793665	45.0557	-0.001037	-0.012
32° 7'	123802.6429	30.799420	3378.0788	0.015851	2.207
	262121.8284	-0.794035	44.9935	-0.001037	-0.012
32° 8'	125650.6080	30.799501	3379.0298	0.015832	2.206
	262074.1863	-0.794405	44.9312	-0.001037	-0.012
32° 9'	127498.5781	30.799582	3379.9797	0.015813	2.206
	262026.5220	-0.794775	44.8690	-0.001037	-0.012
32°10'	129346.5530	30.799663	3380.9285	0.015794	2.206
	261978.8355	-0.795145	44.8068	-0.001037	-0.012
32°11'	131194.5328	30.799744	3381.8761	0.015775	2.205
	261931.1268	-0.795514	44.7445	-0.001037	-0.012
32°12'	133042.5174	30.799826	3382.8226	0.015756	2.205
	261883.3960	-0.795884	44.6823	-0.001037	-0.013
32°13'	134890.5070	30.799907	3383.7679	0.015737	2.204
	261835.6429	-0.796254	44.6201	-0.001037	-0.013
32°14'	136738.5014	30.799988	3384.7121	0.015717	2.204
	261787.8677	-0.796623	44.5579	-0.001037	-0.013
32°15'	138586.5007	30.800070	3385.6552	0.015698	2.203
	261740.0703	-0.796993	44.4956	-0.001037	-0.013
32°16'	140434.5049	30.800151	3386.5971	0.015679	2.203
	261692.2508	-0.797362	44.4334	-0.001037	-0.013
32°17'	142282.5140	30.800233	3387.5378	0.015660	2.203
	261644.4091	-0.797731	44.3712	-0.001037	-0.013
32°18'	144130.5279	30.800314	3388.4774	0.015641	2.202
	261596.5452	-0.798101	44.3090	-0.001037	-0.013
32°19'	145978.5468	30.800395	3389.4159	0.015622	2.202
	261548.6591	-0.798470	44.2467	-0.001037	-0.013
32°20'	147826.5705	30.800477	3390.3532	0.015603	2.201
	261500.7510	-0.798839	44.1845	-0.001037	-0.013
32°21'	149674.5991	30.800558	3391.2894	0.015584	2.201
	261452.8206	-0.799208	44.1223	-0.001037	-0.013
32°22'	151522.6326	30.800640	3392.2245	0.015565	2.200
	261404.8681	-0.799577	44.0601	-0.001037	-0.013
32°23'	153370.6710	30.800721	3393.1584	0.015546	2.200
	261356.8935	-0.799946	43.9978	-0.001037	-0.013
32°24'	155218.7143	30.800803	3394.0911	0.015527	2.199
	261308.8968	-0.800315	43.9356	-0.001037	-0.013
32°25'	157066.7625	30.800885	3395.0227	0.015508	2.199
	261260.8779	-0.800684	43.8734	-0.001037	-0.013

32°26'	158914.8155	30.800966	3395.9532	0.015488	2.198
	261212.8369	-0.801052	43.8112	-0.001037	-0.013
32°27'	160762.8735	30.801048	3396.8825	0.015469	2.198
	261164.7737	-0.801421	43.7490	-0.001037	-0.013

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV) 0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°28'	162610.9364	30.801129	3397.8106	0.015450	2.197
	261116.6885	-0.801790	43.6868	-0.001037	-0.013
32°29'	164459.0042	30.801211	3398.7376	0.015431	2.197
	261068.5811	-0.802158	43.6246	-0.001037	-0.013
32°30'	166307.0768	30.801293	3399.6635	0.015412	2.197
	261020.4516	-0.802527	43.5624	-0.001037	-0.013
32°31'	168155.1544	30.801375	3400.5882	0.015393	2.196
	260972.3000	-0.802895	43.5001	-0.001037	-0.013
32°32'	170003.2369	30.801456	3401.5118	0.015374	2.196
	260924.1263	-0.803263	43.4379	-0.001037	-0.013
32°33'	171851.3242	30.801538	3402.4342	0.015354	2.195
	260875.9305	-0.803632	43.3757	-0.001037	-0.013
32°34'	173699.4165	30.801620	3403.3555	0.015335	2.195
	260827.7126	-0.804000	43.3135	-0.001037	-0.013
32°35'	175547.5137	30.801702	3404.2756	0.015316	2.194
	260779.4726	-0.804368	43.2513	-0.001037	-0.014
32°36'	177395.6158	30.801784	3405.1946	0.015297	2.194
	260731.2105	-0.804736	43.1891	-0.001037	-0.014
32°37'	179243.7228	30.801865	3406.1124	0.015278	2.193
	260682.9263	-0.805104	43.1269	-0.001037	-0.014
32°38'	181091.8348	30.801947	3407.0290	0.015259	2.193
	260634.6201	-0.805472	43.0648	-0.001037	-0.014
32°39'	182939.9516	30.802029	3407.9446	0.015239	2.192
	260586.2917	-0.805840	43.0026	-0.001036	-0.014
32°40'	184788.0733	30.802111	3408.8589	0.015220	2.192
	260537.9413	-0.806208	42.9404	-0.001036	-0.014
32°41'	186636.2000	30.802193	3409.7721	0.015201	2.191
	260489.5689	-0.806576	42.8782	-0.001036	-0.014
32°42'	188484.3316	30.802275	3410.6842	0.015182	2.191
	260441.1743	-0.806943	42.8160	-0.001036	-0.014
32°43'	190332.4681	30.802357	3411.5951	0.015163	2.190
	260392.7577	-0.807311	42.7538	-0.001036	-0.014
32°44'	192180.6095	30.802439	3412.5049	0.015143	2.190
	260344.3191	-0.807679	42.6916	-0.001036	-0.014
32°45'	194028.7558	30.802521	3413.4135	0.015124	2.189
	260295.8584	-0.808046	42.6295	-0.001036	-0.014
32°46'	195876.9071	30.802603	3414.3209	0.015105	2.189
	260247.3756	-0.808413	42.5673	-0.001036	-0.014
32°47'	197725.0633	30.802685	3415.2272	0.015086	2.188
	260198.8708	-0.808781	42.5051	-0.001036	-0.014

32°48'	199573.2244	30.802767	3416.1324	0.015067	2.188
	260150.3440	-0.809148	42.4429	-0.001036	-0.014
32°49'	201421.3904	30.802849	3417.0364	0.015047	2.187
	260101.7951	-0.809515	42.3808	-0.001036	-0.014

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0028

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°50'	203269.5614	30.802932	3417.9392	0.015028	2.187
	260053.2242	-0.809882	42.3186	-0.001036	-0.014
32°51'	205117.7373	30.803014	3418.8409	0.015009	2.186
	260004.6312	-0.810250	42.2564	-0.001036	-0.014
32°52'	206965.9181	30.803096	3419.7414	0.014990	2.186
	259956.0162	-0.810617	42.1943	-0.001036	-0.014
32°53'	208814.1039	30.803178	3420.6408	0.014970	2.185
	259907.3792	-0.810984	42.1321	-0.001036	-0.014
32°54'	210662.2945	30.803260	3421.5390	0.014951	2.185
	259858.7202	-0.811350	42.0700	-0.001036	-0.014
32°55'	212510.4902	30.803343	3422.4361	0.014932	2.184
	259810.0392	-0.811717	42.0078	-0.001036	-0.014
32°56'	214358.6907	30.803425	3423.3320	0.014913	2.184
	259761.3361	-0.812084	41.9457	-0.001036	-0.014
32°57'	216206.8962	30.803507	3424.2268	0.014893	2.183
	259712.6111	-0.812451	41.8835	-0.001036	-0.014
32°58'	218055.1066	30.803589	3425.1204	0.014874	2.183
	259663.8640	-0.812817	41.8214	-0.001036	-0.014
32°59'	219903.3220	30.803672	3426.0128	0.014855	2.182
	259615.0950	-0.813184	41.7592	-0.001036	-0.015
33° 0'	221751.5423	30.803754	3426.9041	0.014835	2.182
	259566.3040	-0.813551	41.6971	-0.001036	-0.015
33° 1'	223599.7675	30.803837	3427.7942	0.014816	2.181
	259517.4909	-0.813917	41.6349	-0.001036	-0.015
33° 2'	225447.9977	30.803919	3428.6832	0.014797	2.181
	259468.6559	-0.814283	41.5728	-0.001036	-0.015
33° 3'	227296.2329	30.804001	3429.5710	0.014777	2.180
	259419.7989	-0.814650	41.5107	-0.001035	-0.015
33° 4'	229144.4730	30.804084	3430.4576	0.014758	2.180
	259370.9199	-0.815016	41.4486	-0.001035	-0.015
33° 5'	230992.7180	30.804166	3431.3431	0.014739	2.179
	259322.0190	-0.815382	41.3864	-0.001035	-0.015
33° 6'	232840.9680	30.804249	3432.2275	0.014720	2.179
	259273.0961	-0.815748	41.3243	-0.001035	-0.015
33° 7'	234689.2229	30.804331	3433.1106	0.014700	2.178
	259224.1512	-0.816114	41.2622	-0.001035	-0.015
33° 8'	236537.4828	30.804414	3433.9926	0.014681	2.177
	259175.1843	-0.816480	41.2001	-0.001035	-0.015
33° 9'	238385.7476	30.804496	3434.8735	0.014662	2.177
	259126.1955	-0.816846	41.1380	-0.001035	-0.015

33°10'	240234.0174	30.804579	3435.7532	0.014642	2.176
	259077.1847	-0.817212	41.0759	-0.001035	-0.015
33°11'	242082.2921	30.804662	3436.6317	0.014623	2.176
	259028.1520	-0.817578	41.0138	-0.001035	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°12'	243930.5718	30.804744	3437.5091	0.014604	2.175
	258979.0974	-0.817943	40.9517	-0.001035	-0.015
33°13'	245778.8564	30.804827	3438.3853	0.014584	2.175
	258930.0208	-0.818309	40.8896	-0.001035	-0.015
33°14'	247627.1461	30.804909	3439.2604	0.014565	2.174
	258880.9222	-0.818675	40.8275	-0.001035	-0.015
33°15'	249475.4406	30.804992	3440.1342	0.014545	2.174
	258831.8017	-0.819040	40.7654	-0.001035	-0.015
33°16'	251323.7402	30.805075	3441.0070	0.014526	2.173
	258782.6593	-0.819406	40.7033	-0.001035	-0.015
33°17'	253172.0446	30.805158	3441.8785	0.014507	2.173
	258733.4950	-0.819771	40.6412	-0.001035	-0.015
33°18'	255020.3541	30.805240	3442.7489	0.014487	2.172
	258684.3087	-0.820136	40.5791	-0.001035	-0.015
33°19'	256868.6685	30.805323	3443.6182	0.014468	2.172
	258635.1006	-0.820501	40.5170	-0.001035	-0.015
33°20'	258716.9879	30.805406	3444.4862	0.014449	2.171
	258585.8705	-0.820867	40.4550	-0.001034	-0.015
33°21'	260565.3123	30.805489	3445.3532	0.014429	2.170
	258536.6185	-0.821232	40.3929	-0.001034	-0.015
33°22'	262413.6416	30.805572	3446.2189	0.014410	2.170
	258487.3446	-0.821597	40.3308	-0.001034	-0.015
33°23'	264261.9759	30.805654	3447.0835	0.014390	2.169
	258438.0488	-0.821962	40.2688	-0.001034	-0.016
33°24'	266110.3151	30.805737	3447.9469	0.014371	2.169
	258388.7311	-0.822327	40.2067	-0.001034	-0.016
33°25'	267958.6594	30.805820	3448.8092	0.014351	2.168
	258339.3915	-0.822692	40.1447	-0.001034	-0.016
33°26'	269807.0086	30.805903	3449.6702	0.014332	2.168
	258290.0300	-0.823056	40.0826	-0.001034	-0.016
33°27'	271655.3628	30.805986	3450.5302	0.014313	2.167
	258240.6466	-0.823421	40.0206	-0.001034	-0.016
33°28'	273503.7219	30.806069	3451.3889	0.014293	2.167
	258191.2413	-0.823786	39.9585	-0.001034	-0.016
33°29'	275352.0861	30.806152	3452.2465	0.014274	2.166
	258141.8142	-0.824150	39.8965	-0.001034	-0.016
33°30'	277200.4552	30.806235	3453.1029	0.014254	2.165
	258092.3652	-0.824515	39.8344	-0.001034	-0.016
33°31'	279048.8293	30.806318	3453.9582	0.014235	2.165
	258042.8943	-0.824879	39.7724	-0.001034	-0.016

33°32'	280897.2083	30.806401	3454.8123	0.014215	2.164
	257993.4015	-0.825244	39.7104	-0.001034	-0.016
33°33'	282745.5924	30.806484	3455.6652	0.014196	2.164
	257943.8869	-0.825608	39.6484	-0.001034	-0.016

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°34'	284593.9815	30.806567	3456.5170	0.014177	2.163
	257894.3505	-0.825972	39.5863	-0.001034	-0.016
33°35'	286442.3755	30.806650	3457.3676	0.014157	2.163
	257844.7921	-0.826336	39.5243	-0.001033	-0.016
33°36'	288290.7745	30.806733	3458.2170	0.014138	2.162
	257795.2120	-0.826700	39.4623	-0.001033	-0.016
33°37'	290139.1785	30.806817	3459.0653	0.014118	2.161
	257745.6100	-0.827064	39.4003	-0.001033	-0.016
33°38'	291987.5875	30.806900	3459.9123	0.014099	2.161
	257695.9861	-0.827428	39.3383	-0.001033	-0.016
33°39'	293836.0015	30.806983	3460.7583	0.014079	2.160
	257646.3404	-0.827792	39.2763	-0.001033	-0.016
33°40'	295684.4204	30.807066	3461.6030	0.014060	2.160
	257596.6729	-0.828156	39.2143	-0.001033	-0.016
33°41'	297532.8444	30.807149	3462.4466	0.014040	2.159
	257546.9835	-0.828520	39.1523	-0.001033	-0.016
33°42'	299381.2734	30.807233	3463.2890	0.014021	2.159
	257497.2723	-0.828883	39.0904	-0.001033	-0.016
33°43'	301229.7073	30.807316	3464.1302	0.014001	2.158
	257447.5393	-0.829247	39.0284	-0.001033	-0.016
33°44'	303078.1463	30.807399	3464.9703	0.013982	2.157
	257397.7845	-0.829611	38.9664	-0.001033	-0.016
33°45'	304926.5902	30.807482	3465.8092	0.013962	2.157
	257348.0078	-0.829974	38.9044	-0.001033	-0.016
33°46'	306775.0392	30.807566	3466.6469	0.013943	2.156
	257298.2094	-0.830338	38.8425	-0.001033	-0.016
33°47'	308623.4931	30.807649	3467.4835	0.013923	2.156
	257248.3891	-0.830701	38.7805	-0.001033	-0.016
33°48'	310471.9521	30.807732	3468.3189	0.013904	2.155
	257198.5471	-0.831064	38.7186	-0.001032	-0.016
33°49'	312320.4160	30.807816	3469.1531	0.013884	2.154
	257148.6832	-0.831427	38.6566	-0.001032	-0.017
33°50'	314168.8850	30.807899	3469.9861	0.013865	2.154
	257098.7976	-0.831791	38.5947	-0.001032	-0.017
33°51'	316017.3589	30.807983	3470.8180	0.013845	2.153
	257048.8902	-0.832154	38.5327	-0.001032	-0.017
33°52'	317865.8379	30.808066	3471.6487	0.013825	2.153
	256998.9609	-0.832517	38.4708	-0.001032	-0.017
33°53'	319714.3219	30.808150	3472.4782	0.013806	2.152
	256949.0099	-0.832880	38.4089	-0.001032	-0.017

33°54'	321562.8108	30.808233	3473.3066	0.013786	2.151
	256899.0372	-0.833243	38.3470	-0.001032	-0.017
33°55'	323411.3048	30.808317	3474.1338	0.013767	2.151
	256849.0426	-0.833605	38.2850	-0.001032	-0.017

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°56'	325259.8038	30.808400	3474.9598	0.013747	2.150
	256799.0263	-0.833968	38.2231	-0.001032	-0.017
33°57'	327108.3078	30.808484	3475.7846	0.013728	2.150
	256748.9882	-0.834331	38.1612	-0.001032	-0.017
33°58'	328956.8169	30.808567	3476.6082	0.013708	2.149
	256698.9284	-0.834693	38.0993	-0.001032	-0.017
33°59'	330805.3309	30.808651	3477.4307	0.013688	2.148
	256648.8468	-0.835056	38.0374	-0.001032	-0.017
34° 0'	332653.8499	30.808735	3478.2520	0.013669	2.148
	256598.7434	-0.835418	37.9755	-0.001031	-0.017
34° 1'	334502.3740	30.808818	3479.0722	0.013649	2.147
	256548.6183	-0.835781	37.9136	-0.001031	-0.017
34° 2'	336350.9031	30.808902	3479.8911	0.013630	2.147
	256498.4715	-0.836143	37.8518	-0.001031	-0.017
34° 3'	338199.4372	30.808985	3480.7089	0.013610	2.146
	256448.3029	-0.836505	37.7899	-0.001031	-0.017
34° 4'	340047.9763	30.809069	3481.5255	0.013590	2.145
	256398.1126	-0.836868	37.7280	-0.001031	-0.017
34° 5'	341896.5205	30.809153	3482.3409	0.013571	2.145
	256347.9005	-0.837230	37.6661	-0.001031	-0.017
34° 6'	343745.0697	30.809237	3483.1552	0.013551	2.144
	256297.6667	-0.837592	37.6043	-0.001031	-0.017
34° 7'	345593.6239	30.809320	3483.9683	0.013532	2.143
	256247.4112	-0.837954	37.5424	-0.001031	-0.017
34° 8'	347442.1831	30.809404	3484.7802	0.013512	2.143
	256197.1340	-0.838316	37.4806	-0.001031	-0.017
34° 9'	349290.7473	30.809488	3485.5909	0.013492	2.142
	256146.8351	-0.838678	37.4187	-0.001031	-0.017
34°10'	351139.3166	30.809572	3486.4004	0.013473	2.142
	256096.5144	-0.839039	37.3569	-0.001031	-0.017
34°11'	352987.8909	30.809656	3487.2088	0.013453	2.141
	256046.1720	-0.839401	37.2951	-0.001030	-0.017
34°12'	354836.4703	30.809739	3488.0160	0.013434	2.140
	255995.8080	-0.839763	37.2332	-0.001030	-0.017
34°13'	356685.0546	30.809823	3488.8220	0.013414	2.140
	255945.4222	-0.840124	37.1714	-0.001030	-0.017
34°14'	358533.6440	30.809907	3489.6268	0.013394	2.139
	255895.0148	-0.840486	37.1096	-0.001030	-0.017
34°15'	360382.2384	30.809991	3490.4305	0.013375	2.138
	255844.5856	-0.840847	37.0478	-0.001030	-0.018

34°16'	362230.8379	30.810075	3491.2330	0.013355	2.138
	255794.1348	-0.841209	36.9860	-0.001030	-0.018
34°17'	364079.4424	30.810159	3492.0343	0.013335	2.137
	255743.6623	-0.841570	36.9242	-0.001030	-0.018

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°18'	365928.0520	30.810243	3492.8344	0.013316	2.137
	255693.1681	-0.841931	36.8624	-0.001030	-0.018
34°19'	367776.6665	30.810327	3493.6333	0.013296	2.136
	255642.6522	-0.842292	36.8006	-0.001030	-0.018
34°20'	369625.2862	30.810411	3494.4311	0.013276	2.135
	255592.1147	-0.842653	36.7388	-0.001030	-0.018
34°21'	371473.9108	30.810495	3495.2276	0.013257	2.135
	255541.5555	-0.843014	36.6771	-0.001029	-0.018
34°22'	373322.5405	30.810579	3496.0230	0.013237	2.134
	255490.9746	-0.843375	36.6153	-0.001029	-0.018
34°23'	375171.1752	30.810663	3496.8172	0.013217	2.133
	255440.3721	-0.843736	36.5536	-0.001029	-0.018
34°24'	377019.8150	30.810747	3497.6103	0.013197	2.133
	255389.7479	-0.844097	36.4918	-0.001029	-0.018
34°25'	378868.4599	30.810831	3498.4021	0.013178	2.132
	255339.1021	-0.844458	36.4301	-0.001029	-0.018
34°26'	380717.1097	30.810915	3499.1928	0.013158	2.131
	255288.4346	-0.844819	36.3683	-0.001029	-0.018
34°27'	382565.7647	30.811000	3499.9823	0.013138	2.131
	255237.7455	-0.845179	36.3066	-0.001029	-0.018
34°28'	384414.4246	30.811084	3500.7706	0.013119	2.130
	255187.0347	-0.845540	36.2449	-0.001029	-0.018
34°29'	386263.0897	30.811168	3501.5577	0.013099	2.129
	255136.3024	-0.845900	36.1831	-0.001029	-0.018
34°30'	388111.7597	30.811252	3502.3436	0.013079	2.129
	255085.5483	-0.846261	36.1214	-0.001028	-0.018
34°31'	389960.4349	30.811336	3503.1284	0.013059	2.128
	255034.7727	-0.846621	36.0597	-0.001028	-0.018
34°32'	391809.1150	30.811421	3503.9119	0.013040	2.127
	254983.9755	-0.846981	35.9980	-0.001028	-0.018
34°33'	393657.8003	30.811505	3504.6943	0.013020	2.127
	254933.1566	-0.847341	35.9363	-0.001028	-0.018
34°34'	395506.4906	30.811589	3505.4755	0.013000	2.126
	254882.3161	-0.847702	35.8746	-0.001028	-0.018
34°35'	397355.1859	30.811673	3506.2555	0.012981	2.125
	254831.4540	-0.848062	35.8129	-0.001028	-0.018
34°36'	399203.8863	30.811758	3507.0344	0.012961	2.125
	254780.5703	-0.848422	35.7513	-0.001028	-0.018
34°37'	401052.5918	30.811842	3507.8120	0.012941	2.124
	254729.6650	-0.848782	35.6896	-0.001028	-0.018

34°38'	402901.3023	30.811926	3508.5885	0.012921	2.123
	254678.7381	-0.849141	35.6279	-0.001028	-0.018
34°39'	404750.0179	30.812011	3509.3638	0.012902	2.123
	254627.7896	-0.849501	35.5663	-0.001027	-0.018

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°40'	406598.7385	30.812095	3510.1379	0.012882	2.122
	254576.8196	-0.849861	35.5046	-0.001027	-0.018
34°41'	408447.4643	30.812180	3510.9108	0.012862	2.121
	254525.8279	-0.850221	35.4430	-0.001027	-0.019
34°42'	410296.1950	30.812264	3511.6825	0.012842	2.121
	254474.8147	-0.850580	35.3814	-0.001027	-0.019
34°43'	412144.9309	30.812348	3512.4530	0.012822	2.120
	254423.7799	-0.850940	35.3197	-0.001027	-0.019
34°44'	413993.6718	30.812433	3513.2224	0.012803	2.119
	254372.7235	-0.851299	35.2581	-0.001027	-0.019
34°45'	415842.4178	30.812517	3513.9905	0.012783	2.119
	254321.6455	-0.851658	35.1965	-0.001027	-0.019
34°46'	417691.1688	30.812602	3514.7575	0.012763	2.118
	254270.5460	-0.852018	35.1349	-0.001027	-0.019
34°47'	419539.9249	30.812686	3515.5233	0.012743	2.117
	254219.4249	-0.852377	35.0733	-0.001027	-0.019
34°48'	421388.6861	30.812771	3516.2879	0.012723	2.117
	254168.2823	-0.852736	35.0117	-0.001026	-0.019
34°49'	423237.4524	30.812856	3517.0513	0.012704	2.116
	254117.1182	-0.853095	34.9501	-0.001026	-0.019
34°50'	425086.2237	30.812940	3517.8135	0.012684	2.115
	254065.9324	-0.853454	34.8886	-0.001026	-0.019
34°51'	426935.0001	30.813025	3518.5745	0.012664	2.115
	254014.7252	-0.853813	34.8270	-0.001026	-0.019
34°52'	428783.7816	30.813109	3519.3344	0.012644	2.114
	253963.4964	-0.854172	34.7654	-0.001026	-0.019
34°53'	430632.5681	30.813194	3520.0930	0.012624	2.113
	253912.2461	-0.854531	34.7039	-0.001026	-0.019
34°54'	432481.3598	30.813279	3520.8505	0.012605	2.113
	253860.9742	-0.854890	34.6423	-0.001026	-0.019
34°55'	434330.1565	30.813363	3521.6068	0.012585	2.112
	253809.6808	-0.855248	34.5808	-0.001026	-0.019
34°56'	436178.9583	30.813448	3522.3618	0.012565	2.111
	253758.3659	-0.855607	34.5193	-0.001025	-0.019
34°57'	438027.7652	30.813533	3523.1157	0.012545	2.111
	253707.0295	-0.855966	34.4577	-0.001025	-0.019
34°58'	439876.5771	30.813617	3523.8684	0.012525	2.110
	253655.6716	-0.856324	34.3962	-0.001025	-0.019
34°59'	441725.3942	30.813702	3524.6200	0.012505	2.109
	253604.2921	-0.856682	34.3347	-0.001025	-0.019

35° 0'	443574.2163	30.813787	3525.3703	0.012486	2.108
	253552.8912	-0.857041	34.2732	-0.001025	-0.019
35° 1'	445423.0435	30.813872	3526.1194	0.012466	2.108
	253501.4688	-0.857399	34.2117	-0.001025	-0.019

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0006	(IV)0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35° 2'	447271.8758	30.813957	3526.8674	0.012446	2.107
	253450.0248	-0.857757	34.1502	-0.001025	-0.019
35° 3'	449120.7132	30.814041	3527.6141	0.012426	2.106
	253398.5594	-0.858115	34.0888	-0.001024	-0.019
35° 4'	450969.5557	30.814126	3528.3597	0.012406	2.106
	253347.0725	-0.858473	34.0273	-0.001024	-0.019
35° 5'	452818.4033	30.814211	3529.1040	0.012386	2.105
	253295.5641	-0.858831	33.9658	-0.001024	-0.019
35° 6'	454667.2560	30.814296	3529.8472	0.012366	2.104
	253244.0342	-0.859189	33.9044	-0.001024	-0.019
35° 7'	456516.1137	30.814381	3530.5892	0.012346	2.104
	253192.4829	-0.859547	33.8429	-0.001024	-0.019
35° 8'	458364.9766	30.814466	3531.3300	0.012327	2.103
	253140.9100	-0.859905	33.7815	-0.001024	-0.019
35° 9'	460213.8445	30.814551	3532.0696	0.012307	2.102
	253089.3157	-0.860262	33.7201	-0.001024	-0.020
35°10'	462062.7175	30.814636	3532.8080	0.012287	2.101
	253037.7000	-0.860620	33.6587	-0.001024	-0.020
35°11'	463911.5957	30.814721	3533.5452	0.012267	2.101
	252986.0628	-0.860978	33.5972	-0.001023	-0.020
35°12'	465760.4789	30.814806	3534.2812	0.012247	2.100
	252934.4041	-0.861335	33.5358	-0.001023	-0.020
35°13'	467609.3672	30.814891	3535.0160	0.012227	2.099
	252882.7240	-0.861693	33.4744	-0.001023	-0.020
35°14'	469458.2607	30.814976	3535.7496	0.012207	2.099
	252831.0225	-0.862050	33.4131	-0.001023	-0.020
35°15'	471307.1592	30.815061	3536.4820	0.012187	2.098
	252779.2995	-0.862407	33.3517	-0.001023	-0.020
35°16'	473156.0628	30.815146	3537.2133	0.012167	2.097
	252727.5551	-0.862764	33.2903	-0.001023	-0.020
35°17'	475004.9716	30.815231	3537.9433	0.012147	2.096
	252675.7892	-0.863121	33.2289	-0.001023	-0.020
35°18'	476853.8854	30.815316	3538.6722	0.012127	2.096
	252624.0019	-0.863479	33.1676	-0.001022	-0.020
35°19'	478702.8044	30.815401	3539.3998	0.012108	2.095
	252572.1932	-0.863836	33.1062	-0.001022	-0.020
35°20'	480551.7284	30.815486	3540.1263	0.012088	2.094
	252520.3631	-0.864192	33.0449	-0.001022	-0.020
35°21'	482400.6576	30.815571	3540.8515	0.012068	2.093
	252468.5115	-0.864549	32.9836	-0.001022	-0.020

35°22'	484249.5919	30.815656	3541.5756	0.012048	2.093
	252416.6386	-0.864906	32.9223	-0.001022	-0.020
35°23'	486098.5313	30.815742	3542.2984	0.012028	2.092
	252364.7442	-0.865263	32.8609	-0.001022	-0.020

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°24'	487947.4757	30.815827	3543.0201	0.012008	2.091
	252312.8284	-0.865619	32.7996	-0.001022	-0.020
35°25'	489796.4254	30.815912	3543.7406	0.011988	2.091
	252260.8913	-0.865976	32.7383	-0.001021	-0.020
35°26'	491645.3801	30.815997	3544.4598	0.011968	2.090
	252208.9327	-0.866332	32.6771	-0.001021	-0.020
35°27'	493494.3399	30.816082	3545.1779	0.011948	2.089
	252156.9528	-0.866689	32.6158	-0.001021	-0.020
35°28'	495343.3048	30.816168	3545.8948	0.011928	2.088
	252104.9515	-0.867045	32.5545	-0.001021	-0.020
35°29'	497192.2749	30.816253	3546.6105	0.011908	2.088
	252052.9287	-0.867401	32.4933	-0.001021	-0.020
35°30'	499041.2501	30.816338	3547.3249	0.011888	2.087
	252000.8847	-0.867758	32.4320	-0.001021	-0.020
35°31'	500890.2304	30.816424	3548.0382	0.011868	2.086
	251948.8192	-0.868114	32.3708	-0.001021	-0.020
35°32'	502739.2158	30.816509	3548.7503	0.011848	2.085
	251896.7324	-0.868470	32.3095	-0.001020	-0.020
35°33'	504588.2063	30.816594	3549.4612	0.011828	2.085
	251844.6242	-0.868826	32.2483	-0.001020	-0.020
35°34'	506437.2020	30.816680	3550.1709	0.011808	2.084
	251792.4946	-0.869182	32.1871	-0.001020	-0.020
35°35'	508286.2028	30.816765	3550.8794	0.011788	2.083
	251740.3437	-0.869538	32.1259	-0.001020	-0.020
35°36'	510135.2087	30.816850	3551.5866	0.011768	2.082
	251688.1714	-0.869893	32.0647	-0.001020	-0.020
35°37'	511984.2197	30.816936	3552.2927	0.011748	2.082
	251635.9778	-0.870249	32.0035	-0.001020	-0.020
35°38'	513833.2359	30.817021	3552.9976	0.011728	2.081
	251583.7629	-0.870605	31.9423	-0.001019	-0.020
35°39'	515682.2571	30.817107	3553.7013	0.011708	2.080
	251531.5266	-0.870960	31.8812	-0.001019	-0.021
35°40'	517531.2836	30.817192	3554.4038	0.011688	2.079
	251479.2690	-0.871316	31.8200	-0.001019	-0.021
35°41'	519380.3151	30.817278	3555.1050	0.011668	2.079
	251426.9900	-0.871671	31.7589	-0.001019	-0.021
35°42'	521229.3518	30.817363	3555.8051	0.011648	2.078
	251374.6897	-0.872027	31.6977	-0.001019	-0.021
35°43'	523078.3935	30.817449	3556.5040	0.011628	2.077
	251322.3681	-0.872382	31.6366	-0.001019	-0.021

35°44'	524927.4405	30.817534	3557.2017	0.011608	2.076
	251270.0252	-0.872737	31.5755	-0.001019	-0.021
35°45'	526776.4925	30.817620	3557.8981	0.011588	2.076
	251217.6610	-0.873092	31.5144	-0.001018	-0.021

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°46'	528625.5497	30.817705	3558.5934	0.011568	2.075
	251165.2755	-0.873447	31.4533	-0.001018	-0.021
35°47'	530474.6121	30.817791	3559.2875	0.011548	2.074
	251112.8686	-0.873802	31.3922	-0.001018	-0.021
35°48'	532323.6795	30.817877	3559.9804	0.011528	2.073
	251060.4405	-0.874157	31.3311	-0.001018	-0.021
35°49'	534172.7521	30.817962	3560.6720	0.011508	2.072
	251007.9910	-0.874512	31.2700	-0.001018	-0.021
35°50'	536021.8299	30.818048	3561.3625	0.011488	2.072
	250955.5203	-0.874867	31.2089	-0.001018	-0.021
35°51'	537870.9127	30.818134	3562.0517	0.011468	2.071
	250903.0283	-0.875222	31.1479	-0.001017	-0.021
35°52'	539720.0008	30.818219	3562.7398	0.011447	2.070
	250850.5150	-0.875576	31.0869	-0.001017	-0.021
35°53'	541569.0939	30.818305	3563.4266	0.011427	2.069
	250797.9804	-0.875931	31.0258	-0.001017	-0.021
35°54'	543418.1922	30.818391	3564.1123	0.011407	2.069
	250745.4246	-0.876285	30.9648	-0.001017	-0.021
35°55'	545267.2957	30.818476	3564.7967	0.011387	2.068
	250692.8474	-0.876640	30.9038	-0.001017	-0.021
35°56'	547116.4042	30.818562	3565.4799	0.011367	2.067
	250640.2490	-0.876994	30.8428	-0.001017	-0.021
35°57'	548965.5180	30.818648	3566.1620	0.011347	2.066
	250587.6294	-0.877348	30.7818	-0.001016	-0.021
35°58'	550814.6369	30.818734	3566.8428	0.011327	2.065
	250534.9885	-0.877703	30.7208	-0.001016	-0.021
35°59'	552663.7609	30.818820	3567.5224	0.011307	2.065
	250482.3263	-0.878057	30.6598	-0.001016	-0.021
36° 0'	554512.8901	30.818905	3568.2008	0.011287	2.064
	250429.6429	-0.878411	30.5989	-0.001016	-0.021
36° 1'	556362.0244	30.818991	3568.8780	0.011267	2.063
	250376.9383	-0.878765	30.5379	-0.001016	-0.021
36° 2'	558211.1638	30.819077	3569.5540	0.011247	2.062
	250324.2124	-0.879119	30.4770	-0.001016	-0.021
36° 3'	560060.3085	30.819163	3570.2288	0.011226	2.062
	250271.4653	-0.879473	30.4160	-0.001015	-0.021
36° 4'	561909.4582	30.819249	3570.9024	0.011206	2.061
	250218.6969	-0.879826	30.3551	-0.001015	-0.021
36° 5'	563758.6132	30.819335	3571.5748	0.011186	2.060
	250165.9073	-0.880180	30.2942	-0.001015	-0.021

36° 6'	565607.7732	30.819421	3572.2460	0.011166	2.059
	250113.0965	-0.880534	30.2333	-0.001015	-0.021
36° 7'	567456.9385	30.819507	3572.9160	0.011146	2.058
	250060.2645	-0.880887	30.1724	-0.001015	-0.021

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36° 8'	569306.1089	30.819592	3573.5847	0.011126	2.058
	250007.4113	-0.881241	30.1115	-0.001015	-0.021
36° 9'	571155.2844	30.819678	3574.2523	0.011106	2.057
	249954.5368	-0.881594	30.0506	-0.001014	-0.022
36°10'	573004.4651	30.819764	3574.9186	0.011086	2.056
	249901.6412	-0.881948	29.9898	-0.001014	-0.022
36°11'	574853.6510	30.819850	3575.5838	0.011065	2.055
	249848.7243	-0.882301	29.9289	-0.001014	-0.022
36°12'	576702.8420	30.819936	3576.2477	0.011045	2.054
	249795.7863	-0.882654	29.8681	-0.001014	-0.022
36°13'	578552.0382	30.820022	3576.9104	0.011025	2.054
	249742.8270	-0.883007	29.8073	-0.001014	-0.022
36°14'	580401.2395	30.820108	3577.5719	0.011005	2.053
	249689.8466	-0.883360	29.7465	-0.001013	-0.022
36°15'	582250.4460	30.820195	3578.2322	0.010985	2.052
	249636.8450	-0.883713	29.6856	-0.001013	-0.022
36°16'	584099.6577	30.820281	3578.8913	0.010965	2.051
	249583.8222	-0.884066	29.6248	-0.001013	-0.022
36°17'	585948.8746	30.820367	3579.5492	0.010945	2.050
	249530.7782	-0.884419	29.5641	-0.001013	-0.022
36°18'	587798.0966	30.820453	3580.2059	0.010924	2.050
	249477.7131	-0.884772	29.5033	-0.001013	-0.022
36°19'	589647.3237	30.820539	3580.8613	0.010904	2.049
	249424.6268	-0.885124	29.4425	-0.001013	-0.022
36°20'	591496.5561	30.820625	3581.5156	0.010884	2.048
	249371.5193	-0.885477	29.3818	-0.001012	-0.022
36°21'	593345.7936	30.820711	3582.1686	0.010864	2.047
	249318.3907	-0.885830	29.3210	-0.001012	-0.022
36°22'	595195.0362	30.820797	3582.8205	0.010844	2.046
	249265.2409	-0.886182	29.2603	-0.001012	-0.022
36°23'	597044.2841	30.820884	3583.4711	0.010824	2.046
	249212.0700	-0.886534	29.1996	-0.001012	-0.022
36°24'	598893.5371	30.820970	3584.1205	0.010803	2.045
	249158.8779	-0.886887	29.1389	-0.001012	-0.022
36°25'	600742.7953	30.821056	3584.7687	0.010783	2.044
	249105.6647	-0.887239	29.0782	-0.001011	-0.022
36°26'	602592.0586	30.821142	3585.4157	0.010763	2.043
	249052.4304	-0.887591	29.0175	-0.001011	-0.022
36°27'	604441.3272	30.821228	3586.0615	0.010743	2.042
	248999.1749	-0.887943	28.9568	-0.001011	-0.022

36°28'	606290.6009	30.821315	3586.7060	0.010723	2.041
	248945.8983	-0.888295	28.8961	-0.001011	-0.022
36°29'	608139.8798	30.821401	3587.3494	0.010702	2.041
	248892.6006	-0.888647	28.8355	-0.001011	-0.022

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°30'	609989.1638	30.821487	3587.9915	0.010682	2.040
	248839.2817	-0.888999	28.7748	-0.001011	-0.022
36°31'	611838.4531	30.821574	3588.6324	0.010662	2.039
	248785.9418	-0.889351	28.7142	-0.001010	-0.022
36°32'	613687.7475	30.821660	3589.2722	0.010642	2.038
	248732.5807	-0.889703	28.6536	-0.001010	-0.022
36°33'	615537.0471	30.821746	3589.9107	0.010621	2.037
	248679.1985	-0.890055	28.5930	-0.001010	-0.022
36°34'	617386.3519	30.821833	3590.5479	0.010601	2.037
	248625.7953	-0.890406	28.5324	-0.001010	-0.022
36°35'	619235.6618	30.821919	3591.1840	0.010581	2.036
	248572.3709	-0.890758	28.4718	-0.001010	-0.022
36°36'	621084.9770	30.822005	3591.8189	0.010561	2.035
	248518.9254	-0.891109	28.4112	-0.001009	-0.022
36°37'	622934.2973	30.822092	3592.4525	0.010541	2.034
	248465.4589	-0.891461	28.3507	-0.001009	-0.022
36°38'	624783.6228	30.822178	3593.0850	0.010520	2.033
	248411.9713	-0.891812	28.2901	-0.001009	-0.022
36°39'	626632.9535	30.822265	3593.7162	0.010500	2.032
	248358.4625	-0.892163	28.2296	-0.001009	-0.022
36°40'	628482.2894	30.822351	3594.3462	0.010480	2.032
	248304.9328	-0.892514	28.1690	-0.001009	-0.022
36°41'	630331.6305	30.822438	3594.9750	0.010460	2.031
	248251.3819	-0.892865	28.1085	-0.001008	-0.022
36°42'	632180.9767	30.822524	3595.6026	0.010439	2.030
	248197.8100	-0.893216	28.0480	-0.001008	-0.023
36°43'	634030.3282	30.822611	3596.2289	0.010419	2.029
	248144.2170	-0.893567	27.9875	-0.001008	-0.023
36°44'	635879.6848	30.822697	3596.8541	0.010399	2.028
	248090.6030	-0.893918	27.9271	-0.001008	-0.023
36°45'	637729.0467	30.822784	3597.4780	0.010379	2.027
	248036.9679	-0.894269	27.8666	-0.001008	-0.023
36°46'	639578.4137	30.822870	3598.1007	0.010358	2.026
	247983.3117	-0.894620	27.8061	-0.001007	-0.023
36°47'	641427.7859	30.822957	3598.7222	0.010338	2.026
	247929.6346	-0.894970	27.7457	-0.001007	-0.023
36°48'	643277.1633	30.823043	3599.3425	0.010318	2.025
	247875.9363	-0.895321	27.6852	-0.001007	-0.023
36°49'	645126.5459	30.823130	3599.9615	0.010297	2.024
	247822.2171	-0.895671	27.6248	-0.001007	-0.023

36°50'	646975.9337	30.823217	3600.5794	0.010277	2.023
	247768.4768	-0.896022	27.5644	-0.001007	-0.023
36°51'	648825.3267	30.823303	3601.1960	0.010257	2.022
	247714.7155	-0.896372	27.5040	-0.001006	-0.023

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV) 0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°52'	650674.7249	30.823390	3601.8114	0.010237	2.021
	247660.9331	-0.896723	27.4436	-0.001006	-0.023
36°53'	652524.1283	30.823477	3602.4256	0.010216	2.021
	247607.1298	-0.897073	27.3833	-0.001006	-0.023
36°54'	654373.5369	30.823563	3603.0386	0.010196	2.020
	247553.3054	-0.897423	27.3229	-0.001006	-0.023
36°55'	656222.9507	30.823650	3603.6504	0.010176	2.019
	247499.4601	-0.897773	27.2626	-0.001006	-0.023
36°56'	658072.3697	30.823737	3604.2609	0.010155	2.018
	247445.5937	-0.898123	27.2022	-0.001005	-0.023
36°57'	659921.7939	30.823823	3604.8702	0.010135	2.017
	247391.7063	-0.898473	27.1419	-0.001005	-0.023
36°58'	661771.2233	30.823910	3605.4783	0.010115	2.016
	247337.7979	-0.898823	27.0816	-0.001005	-0.023
36°59'	663620.6579	30.823997	3606.0852	0.010094	2.015
	247283.8686	-0.899172	27.0213	-0.001005	-0.023
37° 0'	665470.0977	30.824084	3606.6909	0.010074	2.015
	247229.9182	-0.899522	26.9610	-0.001005	-0.023
37° 1'	667319.5427	30.824170	3607.2953	0.010054	2.014
	247175.9469	-0.899872	26.9007	-0.001004	-0.023
37° 2'	669168.9929	30.824257	3607.8986	0.010033	2.013
	247121.9546	-0.900221	26.8405	-0.001004	-0.023
37° 3'	671018.4483	30.824344	3608.5006	0.010013	2.012
	247067.9413	-0.900571	26.7802	-0.001004	-0.023
37° 4'	672867.9089	30.824431	3609.1014	0.009993	2.011
	247013.9071	-0.900920	26.7200	-0.001004	-0.023
37° 5'	674717.3748	30.824518	3609.7009	0.009973	2.010
	246959.8518	-0.901270	26.6598	-0.001004	-0.023
37° 6'	676566.8458	30.824604	3610.2993	0.009952	2.009
	246905.7757	-0.901619	26.5996	-0.001003	-0.023
37° 7'	678416.3221	30.824691	3610.8964	0.009932	2.008
	246851.6785	-0.901968	26.5394	-0.001003	-0.023
37° 8'	680265.8036	30.824778	3611.4923	0.009911	2.008
	246797.5605	-0.902317	26.4792	-0.001003	-0.023
37° 9'	682115.2903	30.824865	3612.0870	0.009891	2.007
	246743.4214	-0.902666	26.4190	-0.001003	-0.023
37°10'	683964.7822	30.824952	3612.6805	0.009871	2.006
	246689.2615	-0.903015	26.3588	-0.001002	-0.023
37°11'	685814.2793	30.825039	3613.2727	0.009850	2.005
	246635.0806	-0.903364	26.2987	-0.001002	-0.023

37°12'	687663.7816	30.825126	3613.8637	0.009830	2.004
	246580.8787	-0.903713	26.2386	-0.001002	-0.023
37°13'	689513.2892	30.825213	3614.4535	0.009810	2.003
	246526.6560	-0.904062	26.1784	-0.001002	-0.023

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

ARIZONA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°14'	691362.8019	30.825300	3615.0421	0.009789	2.002
	246472.4123	-0.904410	26.1183	-0.001002	-0.023
37°15'	693212.3199	30.825387	3615.6295	0.009769	2.001
	246418.1476	-0.904759	26.0582	-0.001001	-0.023
37°16'	695061.8431	30.825474	3616.2156	0.009749	2.001
	246363.8621	-0.905107	25.9982	-0.001001	-0.024
37°17'	696911.3715	30.825561	3616.8005	0.009728	2.000
	246309.5557	-0.905456	25.9381	-0.001001	-0.024
37°18'	698760.9052	30.825648	3617.3842	0.009708	1.999
	246255.2283	-0.905804	25.8780	-0.001001	-0.024
37°19'	700610.4440	30.825735	3617.9667	0.009687	1.998
	246200.8801	-0.906152	25.8180	-0.001000	-0.024
37°20'	702459.9881	30.825822	3618.5480	0.009667	1.997
	246146.5109	-0.906501	25.7580	-0.001000	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31° 0'	0.0000	30.794033	1528.4153	0.016700	18.981
	37698.4225	0.109322	266.3154	0.003207	3.459
31° 1'	1847.6420	30.794113	1529.4173	0.016705	18.997
	37704.9819	0.109413	266.5078	0.003211	3.464
31° 2'	3695.2888	30.794193	1530.4196	0.016711	19.014
	37711.5466	0.109505	266.7005	0.003215	3.469
31° 3'	5542.9404	30.794272	1531.4223	0.016717	19.031
	37718.1169	0.109596	266.8934	0.003219	3.473
31° 4'	7390.5967	30.794352	1532.4253	0.016723	19.048
	37724.6927	0.109688	267.0866	0.003223	3.478
31° 5'	9238.2578	30.794432	1533.4286	0.016728	19.065
	37731.2739	0.109779	267.2800	0.003227	3.483
31° 6'	11085.9237	30.794511	1534.4323	0.016734	19.082
	37737.8607	0.109871	267.4736	0.003231	3.488
31° 7'	12933.5944	30.794591	1535.4364	0.016740	19.099
	37744.4529	0.109962	267.6675	0.003235	3.492
31° 8'	14781.2699	30.794671	1536.4408	0.016746	19.116
	37751.0507	0.110054	267.8616	0.003239	3.497
31° 9'	16628.9501	30.794751	1537.4455	0.016752	19.133
	37757.6539	0.110146	268.0559	0.003243	3.502
31°10'	18476.6351	30.794830	1538.4506	0.016757	19.149
	37764.2627	0.110238	268.2505	0.003247	3.507
31°11'	20324.3250	30.794910	1539.4561	0.016763	19.166
	37770.8769	0.110330	268.4454	0.003251	3.511
31°12'	22172.0196	30.794990	1540.4618	0.016769	19.183
	37777.4967	0.110422	268.6404	0.003255	3.516
31°13'	24019.7190	30.795070	1541.4680	0.016775	19.200
	37784.1220	0.110514	268.8357	0.003259	3.521
31°14'	25867.4232	30.795150	1542.4745	0.016780	19.217
	37790.7528	0.110606	269.0313	0.003263	3.526
31°15'	27715.1322	30.795230	1543.4813	0.016786	19.234
	37797.3892	0.110698	269.2271	0.003267	3.530
31°16'	29562.8460	30.795310	1544.4885	0.016792	19.252
	37804.0310	0.110790	269.4231	0.003271	3.535
31°17'	31410.5646	30.795390	1545.4960	0.016798	19.269
	37810.6785	0.110883	269.6194	0.003275	3.540
31°18'	33258.2880	30.795470	1546.5039	0.016804	19.286
	37817.3314	0.110975	269.8159	0.003279	3.545
31°19'	35106.0162	30.795550	1547.5121	0.016810	19.303
	37823.9899	0.111068	270.0127	0.003283	3.550

31°20'	36953.7492	30.795630	1548.5207	0.016815	19.320
	37830.6540	0.111160	270.2097	0.003287	3.554
31°21'	38801.4869	30.795710	1549.5296	0.016821	19.337
	37837.3236	0.111253	270.4069	0.003291	3.559

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(IX)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°22'	40649.2295	30.795790	1550.5389	0.016827	19.354
	37843.9987	0.111345	270.6044	0.003296	3.564
31°23'	42496.9770	30.795870	1551.5485	0.016833	19.371
	37850.6795	0.111438	270.8021	0.003300	3.569
31°24'	44344.7292	30.795950	1552.5585	0.016839	19.388
	37857.3657	0.111531	271.0001	0.003304	3.574
31°25'	46192.4862	30.796031	1553.5688	0.016845	19.406
	37864.0576	0.111624	271.1983	0.003308	3.579
31°26'	48040.2480	30.796111	1554.5795	0.016851	19.423
	37870.7550	0.111717	271.3968	0.003312	3.584
31°27'	49888.0147	30.796191	1555.5905	0.016857	19.440
	37877.4580	0.111810	271.5955	0.003316	3.589
31°28'	51735.7861	30.796271	1556.6019	0.016862	19.457
	37884.1666	0.111903	271.7945	0.003320	3.593
31°29'	53583.5624	30.796351	1557.6137	0.016868	19.474
	37890.8808	0.111996	271.9937	0.003324	3.598
31°30'	55431.3435	30.796432	1558.6258	0.016874	19.492
	37897.6005	0.112089	272.1931	0.003328	3.603
31°31'	57279.1294	30.796512	1559.6382	0.016880	19.509
	37904.3259	0.112183	272.3928	0.003332	3.608
31°32'	59126.9201	30.796592	1560.6510	0.016886	19.526
	37911.0569	0.112276	272.5928	0.003337	3.613
31°33'	60974.7157	30.796673	1561.6642	0.016892	19.544
	37917.7934	0.112369	272.7930	0.003341	3.618
31°34'	62822.5160	30.796753	1562.6777	0.016898	19.561
	37924.5356	0.112463	272.9934	0.003345	3.623
31°35'	64670.3212	30.796834	1563.6916	0.016904	19.578
	37931.2833	0.112556	273.1941	0.003349	3.628
31°36'	66518.1312	30.796914	1564.7058	0.016910	19.595
	37938.0367	0.112650	273.3950	0.003353	3.633
31°37'	68365.9461	30.796995	1565.7204	0.016916	19.613
	37944.7957	0.112744	273.5962	0.003357	3.638
31°38'	70213.7658	30.797075	1566.7353	0.016922	19.630
	37951.5603	0.112838	273.7976	0.003361	3.643
31°39'	72061.5903	30.797156	1567.7506	0.016928	19.648
	37958.3306	0.112931	273.9993	0.003366	3.648
31°40'	73909.4196	30.797236	1568.7663	0.016934	19.665
	37965.1065	0.113025	274.2012	0.003370	3.653
31°41'	75757.2538	30.797317	1569.7823	0.016940	19.682
	37971.8880	0.113119	274.4034	0.003374	3.658

31°42'	77605.0928	30.797397	1570.7987	0.016946	19.700
	37978.6752	0.113213	274.6058	0.003378	3.663
31°43'	79452.9366	30.797478	1571.8154	0.016951	19.717
	37985.4680	0.113308	274.8085	0.003382	3.668

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX) 0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°44'	81300.7853	30.797558	1572.8325	0.016957	19.735
	37992.2664	0.113402	275.0115	0.003386	3.673
31°45'	83148.6388	30.797639	1573.8499	0.016963	19.752
	37999.0705	0.113496	275.2146	0.003391	3.678
31°46'	84996.4971	30.797720	1574.8678	0.016969	19.770
	38005.8803	0.113590	275.4181	0.003395	3.683
31°47'	86844.3603	30.797801	1575.8859	0.016975	19.787
	38012.6957	0.113685	275.6218	0.003399	3.688
31°48'	88692.2283	30.797881	1576.9044	0.016981	19.805
	38019.5168	0.113779	275.8257	0.003403	3.693
31°49'	90540.1012	30.797962	1577.9233	0.016988	19.822
	38026.3435	0.113874	276.0299	0.003407	3.698
31°50'	92387.9789	30.798043	1578.9426	0.016994	19.840
	38033.1760	0.113968	276.2344	0.003412	3.703
31°51'	94235.8615	30.798124	1579.9622	0.017000	19.857
	38040.0141	0.114063	276.4391	0.003416	3.708
31°52'	96083.7489	30.798204	1580.9822	0.017006	19.875
	38046.8578	0.114158	276.6440	0.003420	3.714
31°53'	97931.6412	30.798285	1582.0025	0.017012	19.893
	38053.7073	0.114253	276.8492	0.003424	3.719
31°54'	99779.5383	30.798366	1583.0232	0.017018	19.910
	38060.5625	0.114348	277.0547	0.003429	3.724
31°55'	101627.4403	30.798447	1584.0443	0.017024	19.928
	38067.4233	0.114443	277.2604	0.003433	3.729
31°56'	103475.3471	30.798528	1585.0657	0.017030	19.946
	38074.2899	0.114538	277.4664	0.003437	3.734
31°57'	105323.2588	30.798609	1586.0875	0.017036	19.963
	38081.1621	0.114633	277.6726	0.003441	3.739
31°58'	107171.1753	30.798690	1587.1096	0.017042	19.981
	38088.0401	0.114728	277.8791	0.003446	3.744
31°59'	109019.0967	30.798771	1588.1321	0.017048	19.999
	38094.9238	0.114823	278.0858	0.003450	3.750
32° 0'	110867.0229	30.798852	1589.1550	0.017054	20.016
	38101.8132	0.114919	278.2928	0.003454	3.755
32° 1'	112714.9540	30.798933	1590.1783	0.017060	20.034
	38108.7083	0.115014	278.5001	0.003459	3.760
32° 2'	114562.8900	30.799014	1591.2019	0.017066	20.052
	38115.6091	0.115109	278.7076	0.003463	3.765
32° 3'	116410.8309	30.799095	1592.2259	0.017072	20.070
	38122.5157	0.115205	278.9153	0.003467	3.770

32° 4'	118258.7766	30.799176	1593.2502	0.017079	20.087
	38129.4280	0.115301	279.1234	0.003471	3.776
32° 5'	120106.7271	30.799257	1594.2749	0.017085	20.105
	38136.3460	0.115396	279.3317	0.003476	3.781

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX) 0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32° 6'	121954.6826	30.799338	1595.3000	0.017091	20.123
	38143.2698	0.115492	279.5402	0.003480	3.786
32° 7'	123802.6429	30.799420	1596.3254	0.017097	20.141
	38150.1993	0.115588	279.7490	0.003484	3.791
32° 8'	125650.6080	30.799501	1597.3513	0.017103	20.159
	38157.1346	0.115684	279.9581	0.003489	3.797
32° 9'	127498.5781	30.799582	1598.3774	0.017109	20.176
	38164.0756	0.115780	280.1674	0.003493	3.802
32°10'	129346.5530	30.799663	1599.4040	0.017115	20.194
	38171.0224	0.115876	280.3770	0.003497	3.807
32°11'	131194.5328	30.799744	1600.4309	0.017121	20.212
	38177.9750	0.115972	280.5868	0.003502	3.812
32°12'	133042.5174	30.799826	1601.4582	0.017128	20.230
	38184.9333	0.116068	280.7969	0.003506	3.818
32°13'	134890.5070	30.799907	1602.4859	0.017134	20.248
	38191.8974	0.116164	281.0073	0.003510	3.823
32°14'	136738.5014	30.799988	1603.5139	0.017140	20.266
	38198.8672	0.116261	281.2179	0.003515	3.828
32°15'	138586.5007	30.800070	1604.5423	0.017146	20.284
	38205.8429	0.116357	281.4288	0.003519	3.834
32°16'	140434.5049	30.800151	1605.5710	0.017152	20.302
	38212.8243	0.116454	281.6400	0.003524	3.839
32°17'	142282.5140	30.800233	1606.6002	0.017159	20.320
	38219.8115	0.116550	281.8514	0.003528	3.844
32°18'	144130.5279	30.800314	1607.6297	0.017165	20.338
	38226.8045	0.116647	282.0630	0.003532	3.850
32°19'	145978.5468	30.800395	1608.6596	0.017171	20.356
	38233.8033	0.116744	282.2750	0.003537	3.855
32°20'	147826.5705	30.800477	1609.6898	0.017177	20.374
	38240.8080	0.116840	282.4872	0.003541	3.860
32°21'	149674.5991	30.800558	1610.7205	0.017183	20.392
	38247.8184	0.116937	282.6997	0.003546	3.866
32°22'	151522.6326	30.800640	1611.7515	0.017190	20.410
	38254.8346	0.117034	282.9124	0.003550	3.871
32°23'	153370.6710	30.800721	1612.7828	0.017196	20.428
	38261.8567	0.117131	283.1254	0.003554	3.876
32°24'	155218.7143	30.800803	1613.8146	0.017202	20.446
	38268.8845	0.117228	283.3387	0.003559	3.882
32°25'	157066.7625	30.800885	1614.8467	0.017208	20.464
	38275.9182	0.117325	283.5522	0.003563	3.887

32°26'	158914.8155	30.800966	1615.8792	0.017215	20.483
	38282.9578	0.117423	283.7660	0.003568	3.893
32°27'	160762.8735	30.801048	1616.9121	0.017221	20.501
	38290.0031	0.117520	283.9800	0.003572	3.898

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(IX)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°28'	162610.9364	30.801129	1617.9453	0.017227	20.519
	38297.0543	0.117617	284.1944	0.003577	3.904
32°29'	164459.0042	30.801211	1618.9790	0.017233	20.537
	38304.1114	0.117715	284.4090	0.003581	3.909
32°30'	166307.0768	30.801293	1620.0130	0.017240	20.555
	38311.1742	0.117812	284.6238	0.003586	3.914
32°31'	168155.1544	30.801375	1621.0473	0.017246	20.573
	38318.2430	0.117910	284.8390	0.003590	3.920
32°32'	170003.2369	30.801456	1622.0821	0.017252	20.592
	38325.3176	0.118008	285.0544	0.003594	3.925
32°33'	171851.3242	30.801538	1623.1172	0.017258	20.610
	38332.3980	0.118105	285.2700	0.003599	3.931
32°34'	173699.4165	30.801620	1624.1527	0.017265	20.628
	38339.4843	0.118203	285.4860	0.003603	3.936
32°35'	175547.5137	30.801702	1625.1886	0.017271	20.646
	38346.5765	0.118301	285.7022	0.003608	3.942
32°36'	177395.6158	30.801784	1626.2249	0.017277	20.665
	38353.6746	0.118399	285.9187	0.003612	3.947
32°37'	179243.7228	30.801865	1627.2615	0.017284	20.683
	38360.7785	0.118497	286.1354	0.003617	3.953
32°38'	181091.8348	30.801947	1628.2985	0.017290	20.701
	38367.8883	0.118595	286.3524	0.003621	3.959
32°39'	182939.9516	30.802029	1629.3359	0.017296	20.720
	38375.0040	0.118693	286.5697	0.003626	3.964
32°40'	184788.0733	30.802111	1630.3737	0.017303	20.738
	38382.1256	0.118792	286.7873	0.003631	3.970
32°41'	186636.2000	30.802193	1631.4119	0.017309	20.756
	38389.2531	0.118890	287.0051	0.003635	3.975
32°42'	188484.3316	30.802275	1632.4504	0.017315	20.775
	38396.3865	0.118988	287.2232	0.003640	3.981
32°43'	190332.4681	30.802357	1633.4894	0.017322	20.793
	38403.5258	0.119087	287.4416	0.003644	3.986
32°44'	192180.6095	30.802439	1634.5287	0.017328	20.812
	38410.6711	0.119185	287.6602	0.003649	3.992
32°45'	194028.7558	30.802521	1635.5684	0.017335	20.830
	38417.8222	0.119284	287.8792	0.003653	3.998
32°46'	195876.9071	30.802603	1636.6084	0.017341	20.849
	38424.9792	0.119383	288.0984	0.003658	4.003
32°47'	197725.0633	30.802685	1637.6489	0.017347	20.867
	38432.1422	0.119482	288.3178	0.003662	4.009

32°48'	199573.2244	30.802767	1638.6897	0.017354	20.886
	38439.3111	0.119580	288.5376	0.003667	4.014
32°49'	201421.3904	30.802849	1639.7309	0.017360	20.904
	38446.4859	0.119679	288.7576	0.003672	4.020

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(IX)0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°50'	203269.5614	30.802932	1640.7725	0.017366	20.923
	38453.6667	0.119778	288.9779	0.003676	4.026
32°51'	205117.7373	30.803014	1641.8145	0.017373	20.941
	38460.8534	0.119878	289.1985	0.003681	4.031
32°52'	206965.9181	30.803096	1642.8569	0.017379	20.960
	38468.0460	0.119977	289.4193	0.003685	4.037
32°53'	208814.1039	30.803178	1643.8997	0.017386	20.978
	38475.2446	0.120076	289.6404	0.003690	4.043
32°54'	210662.2945	30.803260	1644.9428	0.017392	20.997
	38482.4492	0.120175	289.8618	0.003695	4.048
32°55'	212510.4902	30.803343	1645.9863	0.017399	21.016
	38489.6597	0.120275	290.0835	0.003699	4.054
32°56'	214358.6907	30.803425	1647.0303	0.017405	21.034
	38496.8762	0.120374	290.3055	0.003704	4.060
32°57'	216206.8962	30.803507	1648.0746	0.017411	21.053
	38504.0987	0.120474	290.5277	0.003709	4.066
32°58'	218055.1066	30.803589	1649.1192	0.017418	21.072
	38511.3271	0.120573	290.7502	0.003713	4.071
32°59'	219903.3220	30.803672	1650.1643	0.017424	21.090
	38518.5615	0.120673	290.9730	0.003718	4.077
33° 0'	221751.5423	30.803754	1651.2098	0.017431	21.109
	38525.8019	0.120773	291.1961	0.003722	4.083
33° 1'	223599.7675	30.803837	1652.2556	0.017437	21.128
	38533.0483	0.120873	291.4194	0.003727	4.089
33° 2'	225447.9977	30.803919	1653.3019	0.017444	21.146
	38540.3006	0.120973	291.6430	0.003732	4.094
33° 3'	227296.2329	30.804001	1654.3485	0.017450	21.165
	38547.5590	0.121073	291.8669	0.003736	4.100
33° 4'	229144.4730	30.804084	1655.3955	0.017457	21.184
	38554.8233	0.121173	292.0911	0.003741	4.106
33° 5'	230992.7180	30.804166	1656.4429	0.017463	21.203
	38562.0937	0.121273	292.3156	0.003746	4.112
33° 6'	232840.9680	30.804249	1657.4907	0.017470	21.221
	38569.3701	0.121373	292.5404	0.003751	4.118
33° 7'	234689.2229	30.804331	1658.5389	0.017476	21.240
	38576.6525	0.121474	292.7654	0.003755	4.123
33° 8'	236537.4828	30.804414	1659.5875	0.017483	21.259
	38583.9409	0.121574	292.9907	0.003760	4.129
33° 9'	238385.7476	30.804496	1660.6365	0.017489	21.278
	38591.2354	0.121675	293.2163	0.003765	4.135

33°10'	240234.0174	30.804579	1661.6859	0.017496	21.297
	38598.5358	0.121775	293.4422	0.003769	4.141
33°11'	242082.2921	30.804662	1662.7356	0.017503	21.316
	38605.8423	0.121876	293.6684	0.003774	4.147

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX) 0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°12'	243930.5718	30.804744	1663.7858	0.017509	21.335
	38613.1549	0.121976	293.8948	0.003779	4.153
33°13'	245778.8564	30.804827	1664.8363	0.017516	21.354
	38620.4735	0.122077	294.1215	0.003784	4.159
33°14'	247627.1461	30.804909	1665.8873	0.017522	21.373
	38627.7981	0.122178	294.3486	0.003788	4.165
33°15'	249475.4406	30.804992	1666.9386	0.017529	21.392
	38635.1288	0.122279	294.5759	0.003793	4.170
33°16'	251323.7402	30.805075	1667.9903	0.017535	21.410
	38642.4656	0.122380	294.8035	0.003798	4.176
33°17'	253172.0446	30.805158	1669.0424	0.017542	21.429
	38649.8084	0.122481	295.0313	0.003803	4.182
33°18'	255020.3541	30.805240	1670.0949	0.017549	21.448
	38657.1572	0.122582	295.2595	0.003807	4.188
33°19'	256868.6685	30.805323	1671.1479	0.017555	21.468
	38664.5122	0.122684	295.4879	0.003812	4.194
33°20'	258716.9879	30.805406	1672.2012	0.017562	21.487
	38671.8732	0.122785	295.7167	0.003817	4.200
33°21'	260565.3123	30.805489	1673.2549	0.017568	21.506
	38679.2403	0.122887	295.9457	0.003822	4.206
33°22'	262413.6416	30.805572	1674.3090	0.017575	21.525
	38686.6135	0.122988	296.1750	0.003827	4.212
33°23'	264261.9759	30.805654	1675.3635	0.017582	21.544
	38693.9928	0.123090	296.4046	0.003831	4.218
33°24'	266110.3151	30.805737	1676.4184	0.017588	21.563
	38701.3782	0.123191	296.6345	0.003836	4.224
33°25'	267958.6594	30.805820	1677.4737	0.017595	21.582
	38708.7697	0.123293	296.8647	0.003841	4.230
33°26'	269807.0086	30.805903	1678.5293	0.017601	21.601
	38716.1673	0.123395	297.0951	0.003846	4.236
33°27'	271655.3628	30.805986	1679.5854	0.017608	21.620
	38723.5709	0.123497	297.3259	0.003851	4.242
33°28'	273503.7219	30.806069	1680.6419	0.017615	21.640
	38730.9808	0.123599	297.5570	0.003856	4.248
33°29'	275352.0861	30.806152	1681.6988	0.017621	21.659
	38738.3967	0.123701	297.7883	0.003861	4.254
33°30'	277200.4552	30.806235	1682.7561	0.017628	21.678
	38745.8187	0.123803	298.0199	0.003865	4.260
33°31'	279048.8293	30.806318	1683.8138	0.017635	21.697
	38753.2469	0.123905	298.2518	0.003870	4.267

33°32'	280897.2083	30.806401	1684.8719	0.017642	21.717
	38760.6812	0.124008	298.4841	0.003875	4.273
33°33'	282745.5924	30.806484	1685.9304	0.017648	21.736
	38768.1217	0.124110	298.7166	0.003880	4.279

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX) 0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°34'	284593.9815	30.806567	1686.9893	0.017655	21.755
	38775.5683	0.124212	298.9494	0.003885	4.285
33°35'	286442.3755	30.806650	1688.0486	0.017662	21.774
	38783.0210	0.124315	299.1825	0.003890	4.291
33°36'	288290.7745	30.806733	1689.1082	0.017668	21.794
	38790.4799	0.124418	299.4158	0.003895	4.297
33°37'	290139.1785	30.806817	1690.1683	0.017675	21.813
	38797.9450	0.124520	299.6495	0.003900	4.303
33°38'	291987.5875	30.806900	1691.2289	0.017682	21.833
	38805.4162	0.124623	299.8835	0.003905	4.309
33°39'	293836.0015	30.806983	1692.2898	0.017689	21.852
	38812.8936	0.124726	300.1178	0.003909	4.316
33°40'	295684.4204	30.807066	1693.3511	0.017695	21.871
	38820.3772	0.124829	300.3523	0.003914	4.322
33°41'	297532.8444	30.807149	1694.4128	0.017702	21.891
	38827.8669	0.124932	300.5872	0.003919	4.328
33°42'	299381.2734	30.807233	1695.4749	0.017709	21.910
	38835.3628	0.125035	300.8224	0.003924	4.334
33°43'	301229.7073	30.807316	1696.5374	0.017716	21.930
	38842.8649	0.125138	301.0578	0.003929	4.340
33°44'	303078.1463	30.807399	1697.6004	0.017722	21.949
	38850.3732	0.125242	301.2936	0.003934	4.347
33°45'	304926.5902	30.807482	1698.6637	0.017729	21.969
	38857.8877	0.125345	301.5296	0.003939	4.353
33°46'	306775.0392	30.807566	1699.7274	0.017736	21.988
	38865.4084	0.125448	301.7660	0.003944	4.359
33°47'	308623.4931	30.807649	1700.7916	0.017743	22.008
	38872.9353	0.125552	302.0026	0.003949	4.365
33°48'	310471.9521	30.807732	1701.8562	0.017749	22.027
	38880.4685	0.125656	302.2396	0.003954	4.372
33°49'	312320.4160	30.807816	1702.9211	0.017756	22.047
	38888.0078	0.125759	302.4768	0.003959	4.378
33°50'	314168.8850	30.807899	1703.9865	0.017763	22.066
	38895.5534	0.125863	302.7144	0.003964	4.384
33°51'	316017.3589	30.807983	1705.0523	0.017770	22.086
	38903.1051	0.125967	302.9522	0.003969	4.391
33°52'	317865.8379	30.808066	1706.1185	0.017777	22.106
	38910.6632	0.126071	303.1903	0.003974	4.397
33°53'	319714.3219	30.808150	1707.1851	0.017784	22.125
	38918.2274	0.126175	303.4288	0.003979	4.403

33°54'	321562.8108	30.808233	1708.2521	0.017790	22.145
	38925.7979	0.126279	303.6675	0.003984	4.410
33°55'	323411.3048	30.808317	1709.3195	0.017797	22.165
	38933.3746	0.126383	303.9066	0.003989	4.416

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX) 0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°56'	325259.8038	30.808400	1710.3874	0.017804	22.184
	38940.9576	0.126487	304.1459	0.003994	4.422
33°57'	327108.3078	30.808484	1711.4556	0.017811	22.204
	38948.5469	0.126592	304.3856	0.003999	4.429
33°58'	328956.8169	30.808567	1712.5243	0.017818	22.224
	38956.1424	0.126696	304.6256	0.004004	4.435
33°59'	330805.3309	30.808651	1713.5933	0.017825	22.244
	38963.7441	0.126801	304.8658	0.004009	4.441
34° 0'	332653.8499	30.808735	1714.6628	0.017832	22.263
	38971.3522	0.126905	305.1064	0.004015	4.448
34° 1'	334502.3740	30.808818	1715.7327	0.017838	22.283
	38978.9665	0.127010	305.3473	0.004020	4.454
34° 2'	336350.9031	30.808902	1716.8030	0.017845	22.303
	38986.5871	0.127115	305.5884	0.004025	4.461
34° 3'	338199.4372	30.808985	1717.8737	0.017852	22.323
	38994.2140	0.127220	305.8299	0.004030	4.467
34° 4'	340047.9763	30.809069	1718.9449	0.017859	22.343
	39001.8472	0.127325	306.0717	0.004035	4.474
34° 5'	341896.5205	30.809153	1720.0164	0.017866	22.363
	39009.4866	0.127430	306.3138	0.004040	4.480
34° 6'	343745.0697	30.809237	1721.0884	0.017873	22.383
	39017.1324	0.127535	306.5562	0.004045	4.487
34° 7'	345593.6239	30.809320	1722.1608	0.017880	22.402
	39024.7845	0.127640	306.7989	0.004050	4.493
34° 8'	347442.1831	30.809404	1723.2336	0.017887	22.422
	39032.4429	0.127745	307.0419	0.004055	4.500
34° 9'	349290.7473	30.809488	1724.3068	0.017894	22.442
	39040.1076	0.127850	307.2853	0.004061	4.506
34°10'	351139.3166	30.809572	1725.3804	0.017901	22.462
	39047.7786	0.127956	307.5289	0.004066	4.513
34°11'	352987.8909	30.809656	1726.4545	0.017908	22.482
	39055.4560	0.128061	307.7728	0.004071	4.519
34°12'	354836.4703	30.809739	1727.5289	0.017915	22.502
	39063.1397	0.128167	308.0171	0.004076	4.526
34°13'	356685.0546	30.809823	1728.6038	0.017922	22.522
	39070.8297	0.128273	308.2617	0.004081	4.532
34°14'	358533.6440	30.809907	1729.6791	0.017929	22.542
	39078.5260	0.128379	308.5065	0.004086	4.539
34°15'	360382.2384	30.809991	1730.7548	0.017936	22.562
	39086.2288	0.128484	308.7517	0.004092	4.545

34°16'	362230.8379	30.810075	1731.8310	0.017943	22.582
	39093.9378	0.128590	308.9972	0.004097	4.552
34°17'	364079.4424	30.810159	1732.9075	0.017950	22.603
	39101.6532	0.128696	309.2430	0.004102	4.559

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX) 0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°18'	365928.0520	30.810243	1733.9845	0.017957	22.623
	39109.3750	0.128802	309.4891	0.004107	4.565
34°19'	367776.6665	30.810327	1735.0619	0.017964	22.643
	39117.1032	0.128909	309.7356	0.004112	4.572
34°20'	369625.2862	30.810411	1736.1397	0.017971	22.663
	39124.8377	0.129015	309.9823	0.004118	4.579
34°21'	371473.9108	30.810495	1737.2180	0.017978	22.683
	39132.5786	0.129121	310.2294	0.004123	4.585
34°22'	373322.5405	30.810579	1738.2966	0.017985	22.703
	39140.3259	0.129228	310.4767	0.004128	4.592
34°23'	375171.1752	30.810663	1739.3757	0.017992	22.724
	39148.0795	0.129334	310.7244	0.004133	4.599
34°24'	377019.8150	30.810747	1740.4552	0.017999	22.744
	39155.8396	0.129441	310.9724	0.004139	4.605
34°25'	378868.4599	30.810831	1741.5352	0.018006	22.764
	39163.6060	0.129548	311.2207	0.004144	4.612
34°26'	380717.1097	30.810915	1742.6155	0.018013	22.784
	39171.3789	0.129654	311.4694	0.004149	4.619
34°27'	382565.7647	30.811000	1743.6963	0.018020	22.805
	39179.1582	0.129761	311.7183	0.004154	4.625
34°28'	384414.4246	30.811084	1744.7775	0.018027	22.825
	39186.9438	0.129868	311.9676	0.004160	4.632
34°29'	386263.0897	30.811168	1745.8591	0.018034	22.845
	39194.7359	0.129975	312.2172	0.004165	4.639
34°30'	388111.7597	30.811252	1746.9412	0.018041	22.866
	39202.5345	0.130083	312.4671	0.004170	4.646
34°31'	389960.4349	30.811336	1748.0237	0.018048	22.886
	39210.3394	0.130190	312.7173	0.004176	4.652
34°32'	391809.1150	30.811421	1749.1066	0.018056	22.906
	39218.1508	0.130297	312.9678	0.004181	4.659
34°33'	393657.8003	30.811505	1750.1899	0.018063	22.927
	39225.9686	0.130404	313.2187	0.004186	4.666
34°34'	395506.4906	30.811589	1751.2737	0.018070	22.947
	39233.7929	0.130512	313.4699	0.004192	4.673
34°35'	397355.1859	30.811673	1752.3579	0.018077	22.968
	39241.6236	0.130620	313.7214	0.004197	4.680
34°36'	399203.8863	30.811758	1753.4425	0.018084	22.988
	39249.4608	0.130727	313.9732	0.004202	4.687
34°37'	401052.5918	30.811842	1754.5276	0.018091	23.009
	39257.3044	0.130835	314.2253	0.004208	4.693

34°38'	402901.3023	30.811926	1755.6130	0.018098	23.029
	39265.1545	0.130943	314.4778	0.004213	4.700
34°39'	404750.0179	30.812011	1756.6989	0.018106	23.050
	39273.0111	0.131051	314.7306	0.004218	4.707

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX) 0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°40'	406598.7385	30.812095	1757.7853	0.018113	23.070
	39280.8741	0.131159	314.9837	0.004224	4.714
34°41'	408447.4643	30.812180	1758.8721	0.018120	23.091
	39288.7436	0.131267	315.2371	0.004229	4.721
34°42'	410296.1950	30.812264	1759.9592	0.018127	23.112
	39296.6196	0.131375	315.4909	0.004235	4.728
34°43'	412144.9309	30.812348	1761.0469	0.018134	23.132
	39304.5021	0.131483	315.7449	0.004240	4.735
34°44'	413993.6718	30.812433	1762.1349	0.018142	23.153
	39312.3911	0.131592	315.9993	0.004245	4.742
34°45'	415842.4178	30.812517	1763.2234	0.018149	23.173
	39320.2866	0.131700	316.2541	0.004251	4.749
34°46'	417691.1688	30.812602	1764.3124	0.018156	23.194
	39328.1886	0.131809	316.5091	0.004256	4.756
34°47'	419539.9249	30.812686	1765.4017	0.018163	23.215
	39336.0972	0.131917	316.7645	0.004262	4.763
34°48'	421388.6861	30.812771	1766.4915	0.018170	23.236
	39344.0122	0.132026	317.0202	0.004267	4.770
34°49'	423237.4524	30.812856	1767.5817	0.018178	23.256
	39351.9338	0.132135	317.2762	0.004273	4.777
34°50'	425086.2237	30.812940	1768.6724	0.018185	23.277
	39359.8618	0.132244	317.5326	0.004278	4.784
34°51'	426935.0001	30.813025	1769.7635	0.018192	23.298
	39367.7965	0.132353	317.7892	0.004284	4.791
34°52'	428783.7816	30.813109	1770.8550	0.018199	23.319
	39375.7376	0.132462	318.0463	0.004289	4.798
34°53'	430632.5681	30.813194	1771.9470	0.018207	23.339
	39383.6853	0.132571	318.3036	0.004294	4.805
34°54'	432481.3598	30.813279	1773.0394	0.018214	23.360
	39391.6396	0.132680	318.5613	0.004300	4.812
34°55'	434330.1565	30.813363	1774.1322	0.018221	23.381
	39399.6004	0.132789	318.8193	0.004305	4.819
34°56'	436178.9583	30.813448	1775.2255	0.018229	23.402
	39407.5678	0.132899	319.0776	0.004311	4.826
34°57'	438027.7652	30.813533	1776.3192	0.018236	23.423
	39415.5417	0.133008	319.3363	0.004317	4.833
34°58'	439876.5771	30.813617	1777.4134	0.018243	23.444
	39423.5222	0.133118	319.5952	0.004322	4.840
34°59'	441725.3942	30.813702	1778.5080	0.018250	23.465
	39431.5093	0.133228	319.8546	0.004328	4.847

35° 0'	443574.2163	30.813787	1779.6030	0.018258	23.486
	39439.5029	0.133338	320.1142	0.004333	4.855
35° 1'	445423.0435	30.813872	1780.6985	0.018265	23.507
	39447.5032	0.133447	320.3742	0.004339	4.862

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"		
	60"	50"	40"	30"		60"	50"	40"	30"		
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008		

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35° 2'	447271.8758	30.813957	1781.7944	0.018272	23.528
	39455.5100	0.133557	320.6345	0.004344	4.869
35° 3'	449120.7132	30.814041	1782.8907	0.018280	23.549
	39463.5235	0.133667	320.8952	0.004350	4.876
35° 4'	450969.5557	30.814126	1783.9875	0.018287	23.570
	39471.5435	0.133778	321.1562	0.004355	4.883
35° 5'	452818.4033	30.814211	1785.0847	0.018295	23.591
	39479.5702	0.133888	321.4175	0.004361	4.890
35° 6'	454667.2560	30.814296	1786.1824	0.018302	23.612
	39487.6035	0.133998	321.6791	0.004367	4.898
35° 7'	456516.1137	30.814381	1787.2805	0.018309	23.633
	39495.6433	0.134109	321.9411	0.004372	4.905
35° 8'	458364.9766	30.814466	1788.3791	0.018317	23.654
	39503.6899	0.134219	322.2035	0.004378	4.912
35° 9'	460213.8445	30.814551	1789.4781	0.018324	23.675
	39511.7430	0.134330	322.4661	0.004383	4.919
35°10'	462062.7175	30.814636	1790.5775	0.018331	23.696
	39519.8028	0.134440	322.7291	0.004389	4.927
35°11'	463911.5957	30.814721	1791.6774	0.018339	23.718
	39527.8692	0.134551	322.9925	0.004395	4.934
35°12'	465760.4789	30.814806	1792.7777	0.018346	23.739
	39535.9423	0.134662	323.2562	0.004400	4.941
35°13'	467609.3672	30.814891	1793.8785	0.018354	23.760
	39544.0220	0.134773	323.5202	0.004406	4.949
35°14'	469458.2607	30.814976	1794.9797	0.018361	23.781
	39552.1084	0.134884	323.7845	0.004412	4.956
35°15'	471307.1592	30.815061	1796.0814	0.018369	23.803
	39560.2014	0.134995	324.0492	0.004417	4.963
35°16'	473156.0628	30.815146	1797.1835	0.018376	23.824
	39568.3011	0.135106	324.3143	0.004423	4.971
35°17'	475004.9716	30.815231	1798.2861	0.018383	23.845
	39576.4075	0.135218	324.5796	0.004429	4.978
35°18'	476853.8854	30.815316	1799.3891	0.018391	23.867
	39584.5206	0.135329	324.8454	0.004434	4.985
35°19'	478702.8044	30.815401	1800.4926	0.018398	23.888
	39592.6403	0.135441	325.1114	0.004440	4.993
35°20'	480551.7284	30.815486	1801.5965	0.018406	23.909
	39600.7668	0.135552	325.3778	0.004446	5.000
35°21'	482400.6576	30.815571	1802.7008	0.018413	23.931
	39608.8999	0.135664	325.6446	0.004451	5.008

35°22'	484249.5919	30.815656	1803.8056	0.018421	23.952
	39617.0397	0.135776	325.9116	0.004457	5.015
35°23'	486098.5313	30.815742	1804.9109	0.018428	23.974
	39625.1863	0.135888	326.1791	0.004463	5.023

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX) 0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°24'	487947.4757	30.815827	1806.0166	0.018436	23.995
	39633.3395	0.136000	326.4468	0.004469	5.030
35°25'	489796.4254	30.815912	1807.1227	0.018443	24.016
	39641.4995	0.136112	326.7150	0.004474	5.038
35°26'	491645.3801	30.815997	1808.2293	0.018451	24.038
	39649.6662	0.136224	326.9834	0.004480	5.045
35°27'	493494.3399	30.816082	1809.3364	0.018458	24.060
	39657.8396	0.136336	327.2522	0.004486	5.053
35°28'	495343.3048	30.816168	1810.4439	0.018466	24.081
	39666.0198	0.136448	327.5214	0.004492	5.060
35°29'	497192.2749	30.816253	1811.5518	0.018474	24.103
	39674.2067	0.136561	327.7909	0.004498	5.068
35°30'	499041.2501	30.816338	1812.6602	0.018481	24.124
	39682.4004	0.136673	328.0608	0.004503	5.075
35°31'	500890.2304	30.816424	1813.7691	0.018489	24.146
	39690.6008	0.136786	328.3309	0.004509	5.083
35°32'	502739.2158	30.816509	1814.8784	0.018496	24.167
	39698.8079	0.136899	328.6015	0.004515	5.090
35°33'	504588.2063	30.816594	1815.9882	0.018504	24.189
	39707.0219	0.137012	328.8724	0.004521	5.098
35°34'	506437.2020	30.816680	1817.0984	0.018511	24.211
	39715.2426	0.137124	329.1436	0.004527	5.106
35°35'	508286.2028	30.816765	1818.2091	0.018519	24.233
	39723.4700	0.137237	329.4152	0.004532	5.113
35°36'	510135.2087	30.816850	1819.3202	0.018527	24.254
	39731.7043	0.137351	329.6872	0.004538	5.121
35°37'	511984.2197	30.816936	1820.4318	0.018534	24.276
	39739.9453	0.137464	329.9595	0.004544	5.129
35°38'	513833.2359	30.817021	1821.5439	0.018542	24.298
	39748.1931	0.137577	330.2321	0.004550	5.136
35°39'	515682.2571	30.817107	1822.6564	0.018549	24.320
	39756.4478	0.137690	330.5051	0.004556	5.144
35°40'	517531.2836	30.817192	1823.7694	0.018557	24.341
	39764.7092	0.137804	330.7785	0.004562	5.152
35°41'	519380.3151	30.817278	1824.8828	0.018565	24.363
	39772.9774	0.137917	331.0522	0.004568	5.159
35°42'	521229.3518	30.817363	1825.9967	0.018572	24.385
	39781.2525	0.138031	331.3262	0.004574	5.167
35°43'	523078.3935	30.817449	1827.1110	0.018580	24.407
	39789.5344	0.138145	331.6006	0.004579	5.175

35°44'	524927.4405	30.817534	1828.2258	0.018588	24.429
	39797.8230	0.138259	331.8754	0.004585	5.182
35°45'	526776.4925	30.817620	1829.3411	0.018595	24.451
	39806.1186	0.138373	332.1505	0.004591	5.190

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX) 0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°46'	528625.5497	30.817705	1830.4568	0.018603	24.473
	39814.4209	0.138487	332.4260	0.004597	5.198
35°47'	530474.6121	30.817791	1831.5730	0.018611	24.495
	39822.7301	0.138601	332.7018	0.004603	5.206
35°48'	532323.6795	30.817877	1832.6896	0.018618	24.517
	39831.0462	0.138715	332.9780	0.004609	5.214
35°49'	534172.7521	30.817962	1833.8067	0.018626	24.539
	39839.3691	0.138829	333.2546	0.004615	5.221
35°50'	536021.8299	30.818048	1834.9243	0.018634	24.561
	39847.6989	0.138944	333.5315	0.004621	5.229
35°51'	537870.9127	30.818134	1836.0423	0.018642	24.583
	39856.0355	0.139058	333.8087	0.004627	5.237
35°52'	539720.0008	30.818219	1837.1608	0.018649	24.605
	39864.3790	0.139173	334.0864	0.004633	5.245
35°53'	541569.0939	30.818305	1838.2798	0.018657	24.627
	39872.7294	0.139288	334.3643	0.004639	5.253
35°54'	543418.1922	30.818391	1839.3992	0.018665	24.649
	39881.0866	0.139403	334.6427	0.004645	5.261
35°55'	545267.2957	30.818476	1840.5191	0.018673	24.671
	39889.4508	0.139517	334.9214	0.004651	5.269
35°56'	547116.4042	30.818562	1841.6394	0.018680	24.693
	39897.8218	0.139632	335.2005	0.004657	5.277
35°57'	548965.5180	30.818648	1842.7602	0.018688	24.715
	39906.1998	0.139748	335.4799	0.004663	5.285
35°58'	550814.6369	30.818734	1843.8815	0.018696	24.738
	39914.5846	0.139863	335.7597	0.004669	5.293
35°59'	552663.7609	30.818820	1845.0033	0.018704	24.760
	39922.9764	0.139978	336.0398	0.004675	5.301
36° 0'	554512.8901	30.818905	1846.1255	0.018711	24.782
	39931.3751	0.140093	336.3203	0.004681	5.309
36° 1'	556362.0244	30.818991	1847.2482	0.018719	24.804
	39939.7807	0.140209	336.6012	0.004687	5.317
36° 2'	558211.1638	30.819077	1848.3713	0.018727	24.827
	39948.1932	0.140324	336.8825	0.004693	5.325
36° 3'	560060.3085	30.819163	1849.4949	0.018735	24.849
	39956.6127	0.140440	337.1641	0.004700	5.333
36° 4'	561909.4582	30.819249	1850.6190	0.018743	24.871
	39965.0391	0.140556	337.4460	0.004706	5.341
36° 5'	563758.6132	30.819335	1851.7436	0.018751	24.894
	39973.4724	0.140672	337.7284	0.004712	5.349

36° 6'	565607.7732	30.819421	1852.8686	0.018758	24.916
	39981.9127	0.140788	338.0111	0.004718	5.357
36° 7'	567456.9385	30.819507	1853.9941	0.018766	24.939
	39990.3600	0.140904	338.2941	0.004724	5.365

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX) 0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36° 8'	569306.1089	30.819592	1855.1201	0.018774	24.961
	39998.8142	0.141020	338.5776	0.004730	5.373
36° 9'	571155.2844	30.819678	1856.2465	0.018782	24.983
	40007.2754	0.141136	338.8614	0.004736	5.381
36°10'	573004.4651	30.819764	1857.3735	0.018790	25.006
	40015.7436	0.141253	339.1456	0.004742	5.389
36°11'	574853.6510	30.819850	1858.5008	0.018798	25.028
	40024.2188	0.141369	339.4301	0.004749	5.397
36°12'	576702.8420	30.819936	1859.6287	0.018806	25.051
	40032.7009	0.141486	339.7150	0.004755	5.406
36°13'	578552.0382	30.820022	1860.7570	0.018813	25.073
	40041.1901	0.141602	340.0003	0.004761	5.414
36°14'	580401.2395	30.820108	1861.8858	0.018821	25.096
	40049.6862	0.141719	340.2860	0.004767	5.422
36°15'	582250.4460	30.820195	1863.0151	0.018829	25.119
	40058.1893	0.141836	340.5720	0.004773	5.430
36°16'	584099.6577	30.820281	1864.1449	0.018837	25.141
	40066.6995	0.141953	340.8584	0.004780	5.438
36°17'	585948.8746	30.820367	1865.2751	0.018845	25.164
	40075.2167	0.142070	341.1452	0.004786	5.447
36°18'	587798.0966	30.820453	1866.4058	0.018853	25.187
	40083.7409	0.142187	341.4323	0.004792	5.455
36°19'	589647.3237	30.820539	1867.5370	0.018861	25.209
	40092.2721	0.142304	341.7198	0.004798	5.463
36°20'	591496.5561	30.820625	1868.6687	0.018869	25.232
	40100.8103	0.142422	342.0077	0.004805	5.471
36°21'	593345.7936	30.820711	1869.8008	0.018877	25.255
	40109.3556	0.142539	342.2960	0.004811	5.480
36°22'	595195.0362	30.820797	1870.9334	0.018885	25.277
	40117.9080	0.142657	342.5847	0.004817	5.488
36°23'	597044.2841	30.820884	1872.0665	0.018893	25.300
	40126.4674	0.142774	342.8737	0.004823	5.496
36°24'	598893.5371	30.820970	1873.2001	0.018901	25.323
	40135.0339	0.142892	343.1631	0.004830	5.505
36°25'	600742.7953	30.821056	1874.3342	0.018909	25.346
	40143.6074	0.143010	343.4529	0.004836	5.513
36°26'	602592.0586	30.821142	1875.4687	0.018917	25.369
	40152.1880	0.143128	343.7430	0.004842	5.522
36°27'	604441.3272	30.821228	1876.6037	0.018925	25.392
	40160.7757	0.143246	344.0335	0.004849	5.530

36°28'	606290.6009	30.821315	1877.7392	0.018933	25.414
	40169.3704	0.143364	344.3244	0.004855	5.538
36°29'	608139.8798	30.821401	1878.8752	0.018941	25.437
	40177.9723	0.143482	344.6157	0.004861	5.547

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX) 0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°30'	609989.1638	30.821487	1880.0117	0.018949	25.460
	40186.5812	0.143601	344.9074	0.004868	5.555
36°31'	611838.4531	30.821574	1881.1486	0.018957	25.483
	40195.1972	0.143719	345.1995	0.004874	5.564
36°32'	613687.7475	30.821660	1882.2860	0.018965	25.506
	40203.8204	0.143838	345.4919	0.004880	5.572
36°33'	615537.0471	30.821746	1883.4240	0.018973	25.529
	40212.4507	0.143956	345.7847	0.004887	5.581
36°34'	617386.3519	30.821833	1884.5623	0.018981	25.552
	40221.0880	0.144075	346.0779	0.004893	5.589
36°35'	619235.6618	30.821919	1885.7012	0.018989	25.575
	40229.7325	0.144194	346.3715	0.004899	5.598
36°36'	621084.9770	30.822005	1886.8406	0.018998	25.598
	40238.3842	0.144313	346.6655	0.004906	5.606
36°37'	622934.2973	30.822092	1887.9804	0.019006	25.622
	40247.0430	0.144432	346.9598	0.004912	5.615
36°38'	624783.6228	30.822178	1889.1208	0.019014	25.645
	40255.7089	0.144551	347.2545	0.004919	5.623
36°39'	626632.9535	30.822265	1890.2616	0.019022	25.668
	40264.3820	0.144670	347.5497	0.004925	5.632
36°40'	628482.2894	30.822351	1891.4029	0.019030	25.691
	40273.0622	0.144790	347.8452	0.004932	5.641
36°41'	630331.6305	30.822438	1892.5447	0.019038	25.714
	40281.7496	0.144909	348.1411	0.004938	5.649
36°42'	632180.9767	30.822524	1893.6870	0.019046	25.737
	40290.4441	0.145029	348.4373	0.004944	5.658
36°43'	634030.3282	30.822611	1894.8298	0.019054	25.761
	40299.1459	0.145149	348.7340	0.004951	5.667
36°44'	635879.6848	30.822697	1895.9730	0.019063	25.784
	40307.8548	0.145268	349.0311	0.004957	5.675
36°45'	637729.0467	30.822784	1897.1168	0.019071	25.807
	40316.5709	0.145388	349.3285	0.004964	5.684
36°46'	639578.4137	30.822870	1898.2610	0.019079	25.831
	40325.2942	0.145508	349.6263	0.004970	5.693
36°47'	641427.7859	30.822957	1899.4058	0.019087	25.854
	40334.0247	0.145628	349.9246	0.004977	5.701
36°48'	643277.1633	30.823043	1900.5510	0.019095	25.877
	40342.7624	0.145749	350.2232	0.004983	5.710
36°49'	645126.5459	30.823130	1901.6967	0.019104	25.901
	40351.5073	0.145869	350.5222	0.004990	5.719

36°50'	646975.9337	30.823217	1902.8429	0.019112	25.924
	40360.2594	0.145989	350.8216	0.004997	5.728
36°51'	648825.3267	30.823303	1903.9896	0.019120	25.948
	40369.0188	0.146110	351.1214	0.005003	5.736

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"		
	60"	50"	40"	30"		60"	50"	40"	30"		
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009		

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°52'	650674.7249	30.823390	1905.1368	0.019128	25.971
	40377.7854	0.146230	351.4216	0.005010	5.745
36°53'	652524.1283	30.823477	1906.2845	0.019136	25.995
	40386.5592	0.146351	351.7221	0.005016	5.754
36°54'	654373.5369	30.823563	1907.4327	0.019145	26.018
	40395.3402	0.146472	352.0231	0.005023	5.763
36°55'	656222.9507	30.823650	1908.5814	0.019153	26.042
	40404.1285	0.146593	352.3245	0.005029	5.772
36°56'	658072.3697	30.823737	1909.7306	0.019161	26.065
	40412.9241	0.146714	352.6262	0.005036	5.781
36°57'	659921.7939	30.823823	1910.8802	0.019169	26.089
	40421.7269	0.146835	352.9284	0.005043	5.789
36°58'	661771.2233	30.823910	1912.0304	0.019178	26.112
	40430.5370	0.146956	353.2310	0.005049	5.798
36°59'	663620.6579	30.823997	1913.1811	0.019186	26.136
	40439.3544	0.147077	353.5339	0.005056	5.807
37° 0'	665470.0977	30.824084	1914.3322	0.019194	26.160
	40448.1791	0.147199	353.8373	0.005063	5.816
37° 1'	667319.5427	30.824170	1915.4839	0.019203	26.183
	40457.0110	0.147320	354.1410	0.005069	5.825
37° 2'	669168.9929	30.824257	1916.6360	0.019211	26.207
	40465.8502	0.147442	354.4452	0.005076	5.834
37° 3'	671018.4483	30.824344	1917.7887	0.019219	26.231
	40474.6967	0.147564	354.7497	0.005083	5.843
37° 4'	672867.9089	30.824431	1918.9419	0.019228	26.255
	40483.5506	0.147686	355.0547	0.005089	5.852
37° 5'	674717.3748	30.824518	1920.0955	0.019236	26.278
	40492.4117	0.147808	355.3600	0.005096	5.861
37° 6'	676566.8458	30.824604	1921.2497	0.019244	26.302
	40501.2802	0.147930	355.6658	0.005103	5.870
37° 7'	678416.3221	30.824691	1922.4043	0.019253	26.326
	40510.1560	0.148052	355.9719	0.005109	5.879
37° 8'	680265.8036	30.824778	1923.5595	0.019261	26.350
	40519.0391	0.148174	356.2785	0.005116	5.888
37° 9'	682115.2903	30.824865	1924.7152	0.019269	26.374
	40527.9295	0.148297	356.5855	0.005123	5.897
37°10'	683964.7822	30.824952	1925.8713	0.019278	26.398
	40536.8273	0.148419	356.8928	0.005130	5.907
37°11'	685814.2793	30.825039	1927.0280	0.019286	26.422
	40545.7325	0.148542	357.2006	0.005136	5.916

37°12'	687663.7816	30.825126	1928.1852	0.019295	26.446
	40554.6450	0.148664	357.5088	0.005143	5.925
37°13'	689513.2892	30.825213	1929.3428	0.019303	26.470
	40563.5649	0.148787	357.8174	0.005150	5.934

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ARIZONA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°14'	691362.8019	30.825300	1930.5010	0.019311	26.494
	40572.4921	0.148910	358.1264	0.005157	5.943
37°15'	693212.3199	30.825387	1931.6597	0.019320	26.518
	40581.4267	0.149033	358.4357	0.005163	5.952
37°16'	695061.8431	30.825474	1932.8189	0.019328	26.542
	40590.3687	0.149156	358.7456	0.005170	5.962
37°17'	696911.3715	30.825561	1933.9786	0.019337	26.566
	40599.3181	0.149280	359.0558	0.005177	5.971
37°18'	698760.9052	30.825648	1935.1388	0.019345	26.590
	40608.2749	0.149403	359.3664	0.005184	5.980
37°19'	700610.4440	30.825735	1936.2995	0.019354	26.614
	40617.2390	0.149526	359.6774	0.005191	5.989
37°20'	702459.9881	30.825822	1937.4608	0.019362	26.638
	40626.2106	0.149650	359.9889	0.005198	5.999

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31° 0'	0.0000	30.794033	5150.3807	0.041553	3.009	
			19416.1230	0.212981	215.397	0.012332
31° 1'	1847.6420	30.794113	5152.8739	0.041546	3.009	
			19428.9018	0.213055	215.614	0.012332
31° 2'	3695.2888	30.794193	5155.3667	0.041538	3.010	
			19441.6851	0.213129	215.831	0.012332
31° 3'	5542.9404	30.794272	5157.8590	0.041531	3.010	
			19454.4728	0.213203	216.049	0.012332
31° 4'	7390.5967	30.794352	5160.3509	0.041524	3.011	
			19467.2650	0.213278	216.267	0.012332
31° 5'	9238.2578	30.794432	5162.8423	0.041517	3.011	
			19480.0617	0.213352	216.485	0.012332
31° 6'	11085.9237	30.794511	5165.3333	0.041509	3.011	
			19492.8628	0.213427	216.704	0.012332
31° 7'	12933.5944	30.794591	5167.8239	0.041502	3.012	
			19505.6684	0.213501	216.923	0.012332
31° 8'	14781.2699	30.794671	5170.3140	0.041495	3.012	
			19518.4785	0.213576	217.142	0.012332
31° 9'	16628.9501	30.794751	5172.8037	0.041487	3.012	
			19531.2930	0.213651	217.361	0.012332
31°10'	18476.6351	30.794830	5175.2929	0.041480	3.013	
			19544.1121	0.213726	217.580	0.012332
31°11'	20324.3250	30.794910	5177.7817	0.041473	3.013	
			19556.9356	0.213800	217.800	0.012332
31°12'	22172.0196	30.794990	5180.2701	0.041466	3.014	
			19569.7636	0.213875	218.019	0.012332
31°13'	24019.7190	30.795070	5182.7580	0.041458	3.014	
			19582.5962	0.213950	218.240	0.012332
31°14'	25867.4232	30.795150	5185.2455	0.041451	3.014	
			19595.4332	0.214026	218.460	0.012332
31°15'	27715.1322	30.795230	5187.7326	0.041444	3.015	
			19608.2747	0.214101	218.680	0.012332
31°16'	29562.8460	30.795310	5190.2192	0.041436	3.015	
			19621.1208	0.214176	218.901	0.012332
31°17'	31410.5646	30.795390	5192.7054	0.041429	3.015	
			19633.9713	0.214251	219.122	0.012332
31°18'	33258.2880	30.795470	5195.1911	0.041422	3.016	
			19646.8264	0.214327	219.343	0.012331
31°19'	35106.0162	30.795550	5197.6764	0.041414	3.016	
			19659.6860	0.214402	219.565	0.012331

31°20'	36953.7492	30.795630	5200.1613	0.041407	3.016	
			19672.5502	0.214478	219.786	0.012331
31°21'	38801.4869	30.795710	5202.6457	0.041400	3.017	
			19685.4189	0.214554	220.008	0.012331

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"

(I)0.0000 -0.0003 -0.0005 -0.0006(XIV)0.0000 -0.0003 -0.0005 -0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°22'	40649.2295	30.795790	5205.1297	0.041392	3.017	
			19698.2921	0.214629	220.230	0.012331
31°23'	42496.9770	30.795870	5207.6132	0.041385	3.018	
			19711.1699	0.214705	220.453	0.012331
31°24'	44344.7292	30.795950	5210.0963	0.041378	3.018	
			19724.0522	0.214781	220.675	0.012331
31°25'	46192.4862	30.796031	5212.5790	0.041370	3.018	
			19736.9391	0.214857	220.898	0.012331
31°26'	48040.2480	30.796111	5215.0612	0.041363	3.019	
			19749.8305	0.214933	221.121	0.012331
31°27'	49888.0147	30.796191	5217.5430	0.041356	3.019	
			19762.7265	0.215009	221.344	0.012331
31°28'	51735.7861	30.796271	5220.0243	0.041348	3.019	
			19775.6270	0.215086	221.568	0.012331
31°29'	53583.5624	30.796351	5222.5052	0.041341	3.020	
			19788.5322	0.215162	221.792	0.012331
31°30'	55431.3435	30.796432	5224.9856	0.041333	3.020	
			19801.4419	0.215238	222.016	0.012331
31°31'	57279.1294	30.796512	5227.4657	0.041326	3.020	
			19814.3562	0.215315	222.240	0.012331
31°32'	59126.9201	30.796592	5229.9452	0.041319	3.021	
			19827.2751	0.215391	222.464	0.012331
31°33'	60974.7157	30.796673	5232.4243	0.041311	3.021	
			19840.1985	0.215468	222.689	0.012331
31°34'	62822.5160	30.796753	5234.9030	0.041304	3.021	
			19853.1266	0.215544	222.914	0.012331
31°35'	64670.3212	30.796834	5237.3813	0.041297	3.022	
			19866.0593	0.215621	223.139	0.012331
31°36'	66518.1312	30.796914	5239.8591	0.041289	3.022	
			19878.9965	0.215698	223.365	0.012331
31°37'	68365.9461	30.796995	5242.3364	0.041282	3.022	
			19891.9384	0.215775	223.590	0.012331
31°38'	70213.7658	30.797075	5244.8133	0.041274	3.023	
			19904.8849	0.215852	223.816	0.012331
31°39'	72061.5903	30.797156	5247.2898	0.041267	3.023	
			19917.8360	0.215929	224.042	0.012331
31°40'	73909.4196	30.797236	5249.7658	0.041260	3.023	
			19930.7918	0.216006	224.269	0.012331
31°41'	75757.2538	30.797317	5252.2414	0.041252	3.024	
			19943.7521	0.216083	224.495	0.012331

31°42'	77605.0928	30.797397	5254.7165	0.041245	3.024	
			19956.7171	0.216161	224.722	0.012330
31°43'	79452.9366	30.797478	5257.1912	0.041237	3.024	
			19969.6868	0.216238	224.949	0.012330

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°44'	81300.7853	30.797558	5259.6654	0.041230	3.025	
			19982.6611	0.216315	225.176	0.012330
31°45'	83148.6388	30.797639	5262.1392	0.041223	3.025	
			19995.6400	0.216393	225.404	0.012330
31°46'	84996.4971	30.797720	5264.6126	0.041215	3.025	
			20008.6236	0.216471	225.632	0.012330
31°47'	86844.3603	30.797801	5267.0855	0.041208	3.026	
			20021.6118	0.216548	225.860	0.012330
31°48'	88692.2283	30.797881	5269.5580	0.041200	3.026	
			20034.6047	0.216626	226.088	0.012330
31°49'	90540.1012	30.797962	5272.0300	0.041193	3.026	
			20047.6023	0.216704	226.317	0.012330
31°50'	92387.9789	30.798043	5274.5015	0.041185	3.026	
			20060.6045	0.216782	226.545	0.012330
31°51'	94235.8615	30.798124	5276.9727	0.041178	3.027	
			20073.6114	0.216860	226.774	0.012330
31°52'	96083.7489	30.798204	5279.4433	0.041170	3.027	
			20086.6230	0.216938	227.004	0.012330
31°53'	97931.6412	30.798285	5281.9136	0.041163	3.027	
			20099.6393	0.217016	227.233	0.012330
31°54'	99779.5383	30.798366	5284.3833	0.041156	3.028	
			20112.6603	0.217094	227.463	0.012330
31°55'	101627.4403	30.798447	5286.8527	0.041148	3.028	
			20125.6859	0.217173	227.693	0.012330
31°56'	103475.3471	30.798528	5289.3216	0.041141	3.028	
			20138.7163	0.217251	227.923	0.012330
31°57'	105323.2588	30.798609	5291.7900	0.041133	3.029	
			20151.7513	0.217330	228.153	0.012330
31°58'	107171.1753	30.798690	5294.2580	0.041126	3.029	
			20164.7911	0.217408	228.384	0.012330
31°59'	109019.0967	30.798771	5296.7255	0.041118	3.029	
			20177.8356	0.217487	228.615	0.012330
32° 0'	110867.0229	30.798852	5299.1926	0.041111	3.029	
			20190.8848	0.217565	228.846	0.012330
32° 1'	112714.9540	30.798933	5301.6593	0.041103	3.030	
			20203.9387	0.217644	229.078	0.012330
32° 2'	114562.8900	30.799014	5304.1255	0.041096	3.030	
			20216.9974	0.217723	229.309	0.012330
32° 3'	116410.8309	30.799095	5306.5912	0.041088	3.030	
			20230.0608	0.217802	229.541	0.012330

32° 4'	118258.7766	30.799176	5309.0565	0.041081	3.031	
			20243.1289	0.217881	229.773	0.012330
32° 5'	120106.7271	30.799257	5311.5214	0.041073	3.031	
			20256.2018	0.217960	230.006	0.012329

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(XIV)0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32° 6'	121954.6826	30.799338	5313.9858	0.041066	3.031	
			20269.2794	0.218039	230.239	0.012329
32° 7'	123802.6429	30.799420	5316.4497	0.041058	3.031	
			20282.3618	0.218119	230.471	0.012329
32° 8'	125650.6080	30.799501	5318.9133	0.041051	3.032	
			20295.4489	0.218198	230.705	0.012329
32° 9'	127498.5781	30.799582	5321.3763	0.041043	3.032	
			20308.5408	0.218278	230.938	0.012329
32°10'	129346.5530	30.799663	5323.8389	0.041036	3.032	
			20321.6374	0.218357	231.172	0.012329
32°11'	131194.5328	30.799744	5326.3011	0.041028	3.033	
			20334.7388	0.218437	231.406	0.012329
32°12'	133042.5174	30.799826	5328.7628	0.041021	3.033	
			20347.8450	0.218516	231.640	0.012329
32°13'	134890.5070	30.799907	5331.2240	0.041013	3.033	
			20360.9560	0.218596	231.874	0.012329
32°14'	136738.5014	30.799988	5333.6848	0.041006	3.033	
			20374.0718	0.218676	232.109	0.012329
32°15'	138586.5007	30.800070	5336.1452	0.040998	3.034	
			20387.1923	0.218756	232.344	0.012329
32°16'	140434.5049	30.800151	5338.6051	0.040991	3.034	
			20400.3177	0.218836	232.579	0.012329
32°17'	142282.5140	30.800233	5341.0645	0.040983	3.034	
			20413.4479	0.218916	232.814	0.012329
32°18'	144130.5279	30.800314	5343.5235	0.040976	3.035	
			20426.5828	0.218996	233.050	0.012329
32°19'	145978.5468	30.800395	5345.9820	0.040968	3.035	
			20439.7226	0.219076	233.286	0.012329
32°20'	147826.5705	30.800477	5348.4401	0.040961	3.035	
			20452.8672	0.219157	233.522	0.012329
32°21'	149674.5991	30.800558	5350.8978	0.040953	3.035	
			20466.0166	0.219237	233.758	0.012329
32°22'	151522.6326	30.800640	5353.3549	0.040946	3.036	
			20479.1708	0.219318	233.995	0.012329
32°23'	153370.6710	30.800721	5355.8117	0.040938	3.036	
			20492.3299	0.219398	234.232	0.012329
32°24'	155218.7143	30.800803	5358.2679	0.040930	3.036	
			20505.4938	0.219479	234.469	0.012329
32°25'	157066.7625	30.800885	5360.7238	0.040923	3.036	
			20518.6625	0.219560	234.707	0.012329

32°26'	158914.8155	30.800966	5363.1791	0.040915	3.037	
			20531.8361	0.219640	234.944	0.012329
32°27'	160762.8735	30.801048	5365.6341	0.040908	3.037	
			20545.0145	0.219721	235.182	0.012329

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0005	-0.0006	(XIV)0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°28'	162610.9364	30.801129	5368.0885	0.040900	3.037	
			20558.1978	0.219802	235.421	0.012328
32°29'	164459.0042	30.801211	5370.5425	0.040893	3.037	
			20571.3859	0.219883	235.659	0.012328
32°30'	166307.0768	30.801293	5372.9961	0.040885	3.038	
			20584.5789	0.219965	235.898	0.012328
32°31'	168155.1544	30.801375	5375.4492	0.040877	3.038	
			20597.7768	0.220046	236.137	0.012328
32°32'	170003.2369	30.801456	5377.9018	0.040870	3.038	
			20610.9795	0.220127	236.376	0.012328
32°33'	171851.3242	30.801538	5380.3540	0.040862	3.038	
			20624.1872	0.220209	236.615	0.012328
32°34'	173699.4165	30.801620	5382.8057	0.040855	3.039	
			20637.3997	0.220290	236.855	0.012328
32°35'	175547.5137	30.801702	5385.2570	0.040847	3.039	
			20650.6171	0.220372	237.095	0.012328
32°36'	177395.6158	30.801784	5387.7079	0.040839	3.039	
			20663.8394	0.220453	237.335	0.012328
32°37'	179243.7228	30.801865	5390.1582	0.040832	3.039	
			20677.0666	0.220535	237.576	0.012328
32°38'	181091.8348	30.801947	5392.6081	0.040824	3.039	
			20690.2986	0.220617	237.817	0.012328
32°39'	182939.9516	30.802029	5395.0576	0.040817	3.040	
			20703.5357	0.220699	238.058	0.012328
32°40'	184788.0733	30.802111	5397.5066	0.040809	3.040	
			20716.7776	0.220781	238.299	0.012328
32°41'	186636.2000	30.802193	5399.9551	0.040801	3.040	
			20730.0244	0.220863	238.541	0.012328
32°42'	188484.3316	30.802275	5402.4032	0.040794	3.040	
			20743.2762	0.220945	238.782	0.012328
32°43'	190332.4681	30.802357	5404.8508	0.040786	3.041	
			20756.5329	0.221027	239.024	0.012328
32°44'	192180.6095	30.802439	5407.2980	0.040779	3.041	
			20769.7945	0.221109	239.267	0.012328
32°45'	194028.7558	30.802521	5409.7447	0.040771	3.041	
			20783.0610	0.221192	239.509	0.012328
32°46'	195876.9071	30.802603	5412.1910	0.040763	3.041	
			20796.3325	0.221274	239.752	0.012328
32°47'	197725.0633	30.802685	5414.6368	0.040756	3.041	
			20809.6090	0.221357	239.995	0.012328

32°48'	199573.2244	30.802767	5417.0821	0.040748	3.042	
			20822.8904	0.221439	240.239	0.012328
32°49'	201421.3904	30.802849	5419.5270	0.040740	3.042	
			20836.1768	0.221522	240.482	0.012328

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"

(I)0.0000 -0.0003 -0.0005 -0.0006(XIV)0.0000 -0.0003 -0.0006 -0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°50'	203269.5614	30.802932	5421.9714	0.040733	3.042	
			20849.4681	0.221605	240.726	0.012328
32°51'	205117.7373	30.803014	5424.4154	0.040725	3.042	
			20862.7644	0.221688	240.971	0.012327
32°52'	206965.9181	30.803096	5426.8589	0.040717	3.043	
			20876.0657	0.221771	241.215	0.012327
32°53'	208814.1039	30.803178	5429.3019	0.040710	3.043	
			20889.3719	0.221854	241.460	0.012327
32°54'	210662.2945	30.803260	5431.7445	0.040702	3.043	
			20902.6832	0.221937	241.705	0.012327
32°55'	212510.4902	30.803343	5434.1866	0.040694	3.043	
			20915.9994	0.222020	241.950	0.012327
32°56'	214358.6907	30.803425	5436.6283	0.040687	3.043	
			20929.3206	0.222104	242.195	0.012327
32°57'	216206.8962	30.803507	5439.0695	0.040679	3.044	
			20942.6468	0.222187	242.441	0.012327
32°58'	218055.1066	30.803589	5441.5102	0.040671	3.044	
			20955.9781	0.222271	242.687	0.012327
32°59'	219903.3220	30.803672	5443.9505	0.040664	3.044	
			20969.3143	0.222354	242.934	0.012327
33° 0'	221751.5423	30.803754	5446.3904	0.040656	3.044	
			20982.6556	0.222438	243.180	0.012327
33° 1'	223599.7675	30.803837	5448.8297	0.040648	3.044	
			20996.0018	0.222522	243.427	0.012327
33° 2'	225447.9977	30.803919	5451.2686	0.040641	3.045	
			21009.3531	0.222605	243.674	0.012327
33° 3'	227296.2329	30.804001	5453.7071	0.040633	3.045	
			21022.7094	0.222689	243.921	0.012327
33° 4'	229144.4730	30.804084	5456.1450	0.040625	3.045	
			21036.0708	0.222773	244.169	0.012327
33° 5'	230992.7180	30.804166	5458.5826	0.040618	3.045	
			21049.4372	0.222857	244.417	0.012327
33° 6'	232840.9680	30.804249	5461.0196	0.040610	3.045	
			21062.8086	0.222942	244.665	0.012327
33° 7'	234689.2229	30.804331	5463.4562	0.040602	3.046	
			21076.1851	0.223026	244.914	0.012327
33° 8'	236537.4828	30.804414	5465.8923	0.040594	3.046	
			21089.5667	0.223110	245.162	0.012327
33° 9'	238385.7476	30.804496	5468.3280	0.040587	3.046	
			21102.9533	0.223195	245.411	0.012327

33°10'	240234.0174	30.804579	5470.7632	0.040579	3.046	
			21116.3450	0.223279	245.661	0.012327
33°11'	242082.2921	30.804662	5473.1980	0.040571	3.046	
			21129.7417	0.223364	245.910	0.012327

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0006	-0.0006	(XIV)0.0000	-0.0004	-0.0006	-0.0006

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°12'	243930.5718	30.804744	5475.6322	0.040564	3.046	
			21143.1436	0.223448	246.160	0.012327
33°13'	245778.8564	30.804827	5478.0661	0.040556	3.047	
			21156.5505	0.223533	246.410	0.012326
33°14'	247627.1461	30.804909	5480.4994	0.040548	3.047	
			21169.9625	0.223618	246.661	0.012326
33°15'	249475.4406	30.804992	5482.9323	0.040540	3.047	
			21183.3795	0.223703	246.911	0.012326
33°16'	251323.7402	30.805075	5485.3647	0.040533	3.047	
			21196.8017	0.223788	247.162	0.012326
33°17'	253172.0446	30.805158	5487.7967	0.040525	3.047	
			21210.2290	0.223873	247.413	0.012326
33°18'	255020.3541	30.805240	5490.2282	0.040517	3.047	
			21223.6614	0.223958	247.665	0.012326
33°19'	256868.6685	30.805323	5492.6592	0.040509	3.048	
			21237.0989	0.224044	247.917	0.012326
33°20'	258716.9879	30.805406	5495.0898	0.040502	3.048	
			21250.5415	0.224129	248.169	0.012326
33°21'	260565.3123	30.805489	5497.5199	0.040494	3.048	
			21263.9893	0.224215	248.421	0.012326
33°22'	262413.6416	30.805572	5499.9495	0.040486	3.048	
			21277.4422	0.224300	248.674	0.012326
33°23'	264261.9759	30.805654	5502.3787	0.040478	3.048	
			21290.9002	0.224386	248.926	0.012326
33°24'	266110.3151	30.805737	5504.8074	0.040471	3.048	
			21304.3633	0.224472	249.180	0.012326
33°25'	267958.6594	30.805820	5507.2356	0.040463	3.049	
			21317.8316	0.224557	249.433	0.012326
33°26'	269807.0086	30.805903	5509.6634	0.040455	3.049	
			21331.3050	0.224643	249.687	0.012326
33°27'	271655.3628	30.805986	5512.0907	0.040447	3.049	
			21344.7836	0.224729	249.941	0.012326
33°28'	273503.7219	30.806069	5514.5176	0.040440	3.049	
			21358.2674	0.224815	250.195	0.012326
33°29'	275352.0861	30.806152	5516.9439	0.040432	3.049	
			21371.7563	0.224901	250.449	0.012326
33°30'	277200.4552	30.806235	5519.3699	0.040424	3.049	
			21385.2504	0.224988	250.704	0.012326
33°31'	279048.8293	30.806318	5521.7953	0.040416	3.050	
			21398.7497	0.225074	250.959	0.012326

33°32'	280897.2083	30.806401	5524.2203	0.040408	3.050	
			21412.2541	0.225161	251.215	0.012326
33°33'	282745.5924	30.806484	5526.6448	0.040401	3.050	
			21425.7637	0.225247	251.470	0.012326

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV) 0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°34'	284593.9815	30.806567	5529.0688	0.040393	3.050	
			21439.2786	0.225334	251.726	0.012326
33°35'	286442.3755	30.806650	5531.4924	0.040385	3.050	
			21452.7986	0.225420	251.982	0.012326
33°36'	288290.7745	30.806733	5533.9155	0.040377	3.050	
			21466.3238	0.225507	252.239	0.012325
33°37'	290139.1785	30.806817	5536.3381	0.040369	3.050	
			21479.8542	0.225594	252.496	0.012325
33°38'	291987.5875	30.806900	5538.7603	0.040362	3.051	
			21493.3899	0.225681	252.753	0.012325
33°39'	293836.0015	30.806983	5541.1820	0.040354	3.051	
			21506.9307	0.225768	253.010	0.012325
33°40'	295684.4204	30.807066	5543.6032	0.040346	3.051	
			21520.4768	0.225855	253.268	0.012325
33°41'	297532.8444	30.807149	5546.0240	0.040338	3.051	
			21534.0281	0.225942	253.526	0.012325
33°42'	299381.2734	30.807233	5548.4443	0.040330	3.051	
			21547.5847	0.226030	253.784	0.012325
33°43'	301229.7073	30.807316	5550.8641	0.040323	3.051	
			21561.1464	0.226117	254.042	0.012325
33°44'	303078.1463	30.807399	5553.2834	0.040315	3.051	
			21574.7135	0.226205	254.301	0.012325
33°45'	304926.5902	30.807482	5555.7023	0.040307	3.051	
			21588.2857	0.226292	254.560	0.012325
33°46'	306775.0392	30.807566	5558.1207	0.040299	3.052	
			21601.8633	0.226380	254.820	0.012325
33°47'	308623.4931	30.807649	5560.5387	0.040291	3.052	
			21615.4461	0.226468	255.079	0.012325
33°48'	310471.9521	30.807732	5562.9562	0.040283	3.052	
			21629.0341	0.226556	255.339	0.012325
33°49'	312320.4160	30.807816	5565.3732	0.040275	3.052	
			21642.6275	0.226643	255.600	0.012325
33°50'	314168.8850	30.807899	5567.7897	0.040268	3.052	
			21656.2261	0.226732	255.860	0.012325
33°51'	316017.3589	30.807983	5570.2057	0.040260	3.052	
			21669.8300	0.226820	256.121	0.012325
33°52'	317865.8379	30.808066	5572.6213	0.040252	3.052	
			21683.4391	0.226908	256.382	0.012325
33°53'	319714.3219	30.808150	5575.0364	0.040244	3.052	
			21697.0536	0.226996	256.643	0.012325

33°54'	321562.8108	30.808233	5577.4511	0.040236	3.053	
			21710.6734	0.227085	256.905	0.012325
33°55'	323411.3048	30.808317	5579.8653	0.040228	3.053	
			21724.2985	0.227173	257.167	0.012325

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0006	-0.0006	(XIV)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°56'	325259.8038	30.808400	5582.2790	0.040220	3.053	
			21737.9288	0.227262	257.429	0.012325
33°57'	327108.3078	30.808484	5584.6922	0.040213	3.053	
			21751.5645	0.227350	257.692	0.012325
33°58'	328956.8169	30.808567	5587.1049	0.040205	3.053	
			21765.2056	0.227439	257.955	0.012324
33°59'	330805.3309	30.808651	5589.5172	0.040197	3.053	
			21778.8519	0.227528	258.218	0.012324
34° 0'	332653.8499	30.808735	5591.9290	0.040189	3.053	
			21792.5036	0.227617	258.481	0.012324
34° 1'	334502.3740	30.808818	5594.3404	0.040181	3.053	
			21806.1606	0.227706	258.745	0.012324
34° 2'	336350.9031	30.808902	5596.7512	0.040173	3.053	
			21819.8229	0.227795	259.009	0.012324
34° 3'	338199.4372	30.808985	5599.1616	0.040165	3.053	
			21833.4906	0.227884	259.273	0.012324
34° 4'	340047.9763	30.809069	5601.5715	0.040157	3.054	
			21847.1637	0.227974	259.538	0.012324
34° 5'	341896.5205	30.809153	5603.9810	0.040149	3.054	
			21860.8421	0.228063	259.803	0.012324
34° 6'	343745.0697	30.809237	5606.3899	0.040142	3.054	
			21874.5259	0.228152	260.068	0.012324
34° 7'	345593.6239	30.809320	5608.7984	0.040134	3.054	
			21888.2150	0.228242	260.333	0.012324
34° 8'	347442.1831	30.809404	5611.2065	0.040126	3.054	
			21901.9096	0.228332	260.599	0.012324
34° 9'	349290.7473	30.809488	5613.6140	0.040118	3.054	
			21915.6095	0.228421	260.865	0.012324
34°10'	351139.3166	30.809572	5616.0211	0.040110	3.054	
			21929.3147	0.228511	261.132	0.012324
34°11'	352987.8909	30.809656	5618.4277	0.040102	3.054	
			21943.0254	0.228601	261.398	0.012324
34°12'	354836.4703	30.809739	5620.8338	0.040094	3.054	
			21956.7415	0.228691	261.665	0.012324
34°13'	356685.0546	30.809823	5623.2394	0.040086	3.054	
			21970.4630	0.228781	261.933	0.012324
34°14'	358533.6440	30.809907	5625.6446	0.040078	3.054	
			21984.1899	0.228872	262.200	0.012324
34°15'	360382.2384	30.809991	5628.0493	0.040070	3.055	
			21997.9221	0.228962	262.468	0.012324

34°16'	362230.8379	30.810075	5630.4535	0.040062	3.055	
			22011.6599	0.229052	262.736	0.012324
34°17'	364079.4424	30.810159	5632.8572	0.040054	3.055	
			22025.4030	0.229143	263.005	0.012324

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0003	-0.0006	-0.0006	(XIV)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°18'	365928.0520	30.810243	5635.2605	0.040046	3.055	
			22039.1516	0.229233	263.274	0.012324
34°19'	367776.6665	30.810327	5637.6633	0.040038	3.055	
			22052.9056	0.229324	263.543	0.012324
34°20'	369625.2862	30.810411	5640.0656	0.040030	3.055	
			22066.6650	0.229415	263.812	0.012324
34°21'	371473.9108	30.810495	5642.4674	0.040023	3.055	
			22080.4299	0.229506	264.082	0.012323
34°22'	373322.5405	30.810579	5644.8688	0.040015	3.055	
			22094.2003	0.229597	264.352	0.012323
34°23'	375171.1752	30.810663	5647.2696	0.040007	3.055	
			22107.9761	0.229688	264.622	0.012323
34°24'	377019.8150	30.810747	5649.6700	0.039999	3.055	
			22121.7574	0.229779	264.893	0.012323
34°25'	378868.4599	30.810831	5652.0700	0.039991	3.055	
			22135.5441	0.229870	265.164	0.012323
34°26'	380717.1097	30.810915	5654.4694	0.039983	3.055	
			22149.3363	0.229962	265.435	0.012323
34°27'	382565.7647	30.811000	5656.8684	0.039975	3.055	
			22163.1340	0.230053	265.706	0.012323
34°28'	384414.4246	30.811084	5659.2668	0.039967	3.055	
			22176.9372	0.230145	265.978	0.012323
34°29'	386263.0897	30.811168	5661.6648	0.039959	3.055	
			22190.7459	0.230236	266.250	0.012323
34°30'	388111.7597	30.811252	5664.0624	0.039951	3.056	
			22204.5600	0.230328	266.523	0.012323
34°31'	389960.4349	30.811336	5666.4594	0.039943	3.056	
			22218.3797	0.230420	266.795	0.012323
34°32'	391809.1150	30.811421	5668.8560	0.039935	3.056	
			22232.2049	0.230512	267.069	0.012323
34°33'	393657.8003	30.811505	5671.2521	0.039927	3.056	
			22246.0356	0.230604	267.342	0.012323
34°34'	395506.4906	30.811589	5673.6477	0.039919	3.056	
			22259.8718	0.230696	267.616	0.012323
34°35'	397355.1859	30.811673	5676.0428	0.039911	3.056	
			22273.7135	0.230788	267.890	0.012323
34°36'	399203.8863	30.811758	5678.4375	0.039903	3.056	
			22287.5608	0.230880	268.164	0.012323
34°37'	401052.5918	30.811842	5680.8316	0.039895	3.056	
			22301.4136	0.230973	268.439	0.012323

34°38'	402901.3023	30.811926	5683.2253	0.039887	3.056	
			22315.2720	0.231065	268.713	0.012323
34°39'	404750.0179	30.812011	5685.6185	0.039879	3.056	
			22329.1359	0.231158	268.989	0.012323

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0006	(XIV)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°40'	406598.7385	30.812095	5688.0112	0.039871	3.056	
			22343.0053	0.231250	269.264	0.012323
34°41'	408447.4643	30.812180	5690.4035	0.039863	3.056	
			22356.8803	0.231343	269.540	0.012323
34°42'	410296.1950	30.812264	5692.7952	0.039855	3.056	
			22370.7609	0.231436	269.816	0.012323
34°43'	412144.9309	30.812348	5695.1865	0.039847	3.056	
			22384.6471	0.231529	270.093	0.012322
34°44'	413993.6718	30.812433	5697.5773	0.039839	3.056	
			22398.5388	0.231622	270.370	0.012322
34°45'	415842.4178	30.812517	5699.9676	0.039831	3.056	
			22412.4361	0.231715	270.647	0.012322
34°46'	417691.1688	30.812602	5702.3575	0.039823	3.056	
			22426.3390	0.231808	270.924	0.012322
34°47'	419539.9249	30.812686	5704.7468	0.039814	3.056	
			22440.2475	0.231902	271.202	0.012322
34°48'	421388.6861	30.812771	5707.1357	0.039806	3.056	
			22454.1616	0.231995	271.480	0.012322
34°49'	423237.4524	30.812856	5709.5241	0.039798	3.056	
			22468.0813	0.232088	271.758	0.012322
34°50'	425086.2237	30.812940	5711.9120	0.039790	3.056	
			22482.0066	0.232182	272.037	0.012322
34°51'	426935.0001	30.813025	5714.2994	0.039782	3.056	
			22495.9375	0.232276	272.316	0.012322
34°52'	428783.7816	30.813109	5716.6863	0.039774	3.056	
			22509.8740	0.232370	272.595	0.012322
34°53'	430632.5681	30.813194	5719.0728	0.039766	3.056	
			22523.8162	0.232464	272.875	0.012322
34°54'	432481.3598	30.813279	5721.4587	0.039758	3.056	
			22537.7640	0.232558	273.155	0.012322
34°55'	434330.1565	30.813363	5723.8442	0.039750	3.056	
			22551.7175	0.232652	273.435	0.012322
34°56'	436178.9583	30.813448	5726.2292	0.039742	3.056	
			22565.6766	0.232746	273.716	0.012322
34°57'	438027.7652	30.813533	5728.6137	0.039734	3.056	
			22579.6413	0.232840	273.997	0.012322
34°58'	439876.5771	30.813617	5730.9978	0.039726	3.056	
			22593.6117	0.232935	274.278	0.012322
34°59'	441725.3942	30.813702	5733.3813	0.039718	3.056	
			22607.5878	0.233029	274.560	0.012322

35° 0'	443574.2163	30.813787	5735.7644	0.039710	3.056		
			22621.5696	0.233124	274.841	0.012322	
35° 1'	445423.0435	30.813872	5738.1469	0.039701	3.056		
			22635.5570	0.233218	275.124	0.012322	

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35° 2'	447271.8758	30.813957	5740.5290	0.039693	3.056	
			22649.5501	0.233313	275.406	0.012322
35° 3'	449120.7132	30.814041	5742.9106	0.039685	3.056	
			22663.5488	0.233408	275.689	0.012322
35° 4'	450969.5557	30.814126	5745.2917	0.039677	3.056	
			22677.5533	0.233503	275.972	0.012322
35° 5'	452818.4033	30.814211	5747.6724	0.039669	3.056	
			22691.5635	0.233598	276.256	0.012321
35° 6'	454667.2560	30.814296	5750.0525	0.039661	3.056	
			22705.5794	0.233693	276.540	0.012321
35° 7'	456516.1137	30.814381	5752.4322	0.039653	3.056	
			22719.6010	0.233788	276.824	0.012321
35° 8'	458364.9766	30.814466	5754.8113	0.039645	3.056	
			22733.6283	0.233884	277.108	0.012321
35° 9'	460213.8445	30.814551	5757.1900	0.039637	3.056	
			22747.6613	0.233979	277.393	0.012321
35°10'	462062.7175	30.814636	5759.5682	0.039628	3.056	
			22761.7001	0.234075	277.678	0.012321
35°11'	463911.5957	30.814721	5761.9459	0.039620	3.056	
			22775.7445	0.234170	277.964	0.012321
35°12'	465760.4789	30.814806	5764.3232	0.039612	3.056	
			22789.7948	0.234266	278.249	0.012321
35°13'	467609.3672	30.814891	5766.6999	0.039604	3.056	
			22803.8507	0.234362	278.536	0.012321
35°14'	469458.2607	30.814976	5769.0761	0.039596	3.056	
			22817.9125	0.234458	278.822	0.012321
35°15'	471307.1592	30.815061	5771.4519	0.039588	3.056	
			22831.9800	0.234554	279.109	0.012321
35°16'	473156.0628	30.815146	5773.8272	0.039580	3.056	
			22846.0532	0.234650	279.396	0.012321
35°17'	475004.9716	30.815231	5776.2020	0.039572	3.056	
			22860.1322	0.234747	279.683	0.012321
35°18'	476853.8854	30.815316	5778.5762	0.039563	3.056	
			22874.2170	0.234843	279.971	0.012321
35°19'	478702.8044	30.815401	5780.9500	0.039555	3.056	
			22888.3076	0.234939	280.259	0.012321
35°20'	480551.7284	30.815486	5783.3234	0.039547	3.056	
			22902.4040	0.235036	280.548	0.012321
35°21'	482400.6576	30.815571	5785.6962	0.039539	3.056	
			22916.5061	0.235133	280.836	0.012321

35°22'	484249.5919	30.815656	5788.0685	0.039531	3.056	
			22930.6141	0.235229	281.126	0.012321
35°23'	486098.5313	30.815742	5790.4404	0.039523	3.056	
			22944.7278	0.235326	281.415	0.012321

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0006	(XIV)0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°24'	487947.4757	30.815827	5792.8117	0.039514	3.056	
			22958.8474	0.235423	281.705	0.012321
35°25'	489796.4254	30.815912	5795.1826	0.039506	3.056	
			22972.9728	0.235520	281.995	0.012321
35°26'	491645.3801	30.815997	5797.5530	0.039498	3.056	
			22987.1040	0.235617	282.285	0.012321
35°27'	493494.3399	30.816082	5799.9228	0.039490	3.056	
			23001.2410	0.235715	282.576	0.012320
35°28'	495343.3048	30.816168	5802.2922	0.039482	3.056	
			23015.3839	0.235812	282.867	0.012320
35°29'	497192.2749	30.816253	5804.6611	0.039474	3.056	
			23029.5326	0.235909	283.159	0.012320
35°30'	499041.2501	30.816338	5807.0296	0.039465	3.056	
			23043.6872	0.236007	283.450	0.012320
35°31'	500890.2304	30.816424	5809.3975	0.039457	3.056	
			23057.8476	0.236105	283.743	0.012320
35°32'	502739.2158	30.816509	5811.7649	0.039449	3.056	
			23072.0139	0.236202	284.035	0.012320
35°33'	504588.2063	30.816594	5814.1318	0.039441	3.056	
			23086.1860	0.236300	284.328	0.012320
35°34'	506437.2020	30.816680	5816.4983	0.039433	3.056	
			23100.3640	0.236398	284.621	0.012320
35°35'	508286.2028	30.816765	5818.8642	0.039424	3.056	
			23114.5479	0.236496	284.914	0.012320
35°36'	510135.2087	30.816850	5821.2297	0.039416	3.056	
			23128.7377	0.236594	285.208	0.012320
35°37'	511984.2197	30.816936	5823.5947	0.039408	3.056	
			23142.9334	0.236693	285.502	0.012320
35°38'	513833.2359	30.817021	5825.9591	0.039400	3.056	
			23157.1349	0.236791	285.797	0.012320
35°39'	515682.2571	30.817107	5828.3231	0.039391	3.056	
			23171.3424	0.236890	286.092	0.012320
35°40'	517531.2836	30.817192	5830.6866	0.039383	3.056	
			23185.5558	0.236988	286.387	0.012320
35°41'	519380.3151	30.817278	5833.0496	0.039375	3.055	
			23199.7751	0.237087	286.683	0.012320
35°42'	521229.3518	30.817363	5835.4121	0.039367	3.055	
			23214.0003	0.237186	286.978	0.012320
35°43'	523078.3935	30.817449	5837.7741	0.039359	3.055	
			23228.2314	0.237284	287.275	0.012320

35°44'	524927.4405	30.817534	5840.1356	0.039350	3.055	
			23242.4685	0.237383	287.571	0.012320
35°45'	526776.4925	30.817620	5842.4967	0.039342	3.055	
			23256.7115	0.237482	287.868	0.012320

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV) 0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°46'	528625.5497	30.817705	5844.8572	0.039334	3.055	
			23270.9604	0.237582	288.165	0.012320
35°47'	530474.6121	30.817791	5847.2172	0.039326	3.055	
			23285.2153	0.237681	288.463	0.012320
35°48'	532323.6795	30.817877	5849.5767	0.039317	3.055	
			23299.4762	0.237780	288.761	0.012320
35°49'	534172.7521	30.817962	5851.9358	0.039309	3.055	
			23313.7430	0.237880	289.059	0.012319
35°50'	536021.8299	30.818048	5854.2943	0.039301	3.055	
			23328.0158	0.237979	289.358	0.012319
35°51'	537870.9127	30.818134	5856.6524	0.039293	3.055	
			23342.2945	0.238079	289.657	0.012319
35°52'	539720.0008	30.818219	5859.0099	0.039284	3.055	
			23356.5793	0.238179	289.956	0.012319
35°53'	541569.0939	30.818305	5861.3670	0.039276	3.055	
			23370.8700	0.238279	290.256	0.012319
35°54'	543418.1922	30.818391	5863.7236	0.039268	3.055	
			23385.1668	0.238379	290.556	0.012319
35°55'	545267.2957	30.818476	5866.0796	0.039260	3.055	
			23399.4695	0.238479	290.856	0.012319
35°56'	547116.4042	30.818562	5868.4352	0.039251	3.054	
			23413.7782	0.238579	291.157	0.012319
35°57'	548965.5180	30.818648	5870.7903	0.039243	3.054	
			23428.0930	0.238679	291.458	0.012319
35°58'	550814.6369	30.818734	5873.1449	0.039235	3.054	
			23442.4137	0.238780	291.760	0.012319
35°59'	552663.7609	30.818820	5875.4989	0.039226	3.054	
			23456.7405	0.238880	292.061	0.012319
36° 0'	554512.8901	30.818905	5877.8525	0.039218	3.054	
			23471.0734	0.238981	292.364	0.012319
36° 1'	556362.0244	30.818991	5880.2056	0.039210	3.054	
			23485.4122	0.239082	292.666	0.012319
36° 2'	558211.1638	30.819077	5882.5582	0.039202	3.054	
			23499.7571	0.239183	292.969	0.012319
36° 3'	560060.3085	30.819163	5884.9103	0.039193	3.054	
			23514.1081	0.239284	293.272	0.012319
36° 4'	561909.4582	30.819249	5887.2619	0.039185	3.054	
			23528.4651	0.239385	293.576	0.012319
36° 5'	563758.6132	30.819335	5889.6130	0.039177	3.054	
			23542.8282	0.239486	293.880	0.012319

36° 6'	565607.7732	30.819421	5891.9636	0.039168	3.054	
			23557.1973	0.239587	294.184	0.012319
36° 7'	567456.9385	30.819507	5894.3137	0.039160	3.054	
			23571.5726	0.239688	294.489	0.012319

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36° 8'	569306.1089	30.819592	5896.6633	0.039152	3.053	
			23585.9539	0.239790	294.794	0.012319
36° 9'	571155.2844	30.819678	5899.0124	0.039143	3.053	
			23600.3413	0.239891	295.099	0.012319
36°10'	573004.4651	30.819764	5901.3610	0.039135	3.053	
			23614.7348	0.239993	295.405	0.012319
36°11'	574853.6510	30.819850	5903.7091	0.039127	3.053	
			23629.1344	0.240095	295.711	0.012318
36°12'	576702.8420	30.819936	5906.0567	0.039118	3.053	
			23643.5400	0.240197	296.017	0.012318
36°13'	578552.0382	30.820022	5908.4038	0.039110	3.053	
			23657.9519	0.240299	296.324	0.012318
36°14'	580401.2395	30.820108	5910.7504	0.039102	3.053	
			23672.3698	0.240401	296.631	0.012318
36°15'	582250.4460	30.820195	5913.0965	0.039093	3.053	
			23686.7938	0.240503	296.939	0.012318
36°16'	584099.6577	30.820281	5915.4421	0.039085	3.053	
			23701.2240	0.240605	297.247	0.012318
36°17'	585948.8746	30.820367	5917.7872	0.039077	3.052	
			23715.6604	0.240708	297.555	0.012318
36°18'	587798.0966	30.820453	5920.1318	0.039068	3.052	
			23730.1028	0.240810	297.863	0.012318
36°19'	589647.3237	30.820539	5922.4759	0.039060	3.052	
			23744.5515	0.240913	298.172	0.012318
36°20'	591496.5561	30.820625	5924.8195	0.039052	3.052	
			23759.0063	0.241016	298.482	0.012318
36°21'	593345.7936	30.820711	5927.1626	0.039043	3.052	
			23773.4672	0.241119	298.791	0.012318
36°22'	595195.0362	30.820797	5929.5052	0.039035	3.052	
			23787.9343	0.241222	299.102	0.012318
36°23'	597044.2841	30.820884	5931.8473	0.039027	3.052	
			23802.4076	0.241325	299.412	0.012318
36°24'	598893.5371	30.820970	5934.1889	0.039018	3.052	
			23816.8871	0.241428	299.723	0.012318
36°25'	600742.7953	30.821056	5936.5300	0.039010	3.052	
			23831.3728	0.241531	300.034	0.012318
36°26'	602592.0586	30.821142	5938.8705	0.039001	3.051	
			23845.8646	0.241635	300.346	0.012318
36°27'	604441.3272	30.821228	5941.2106	0.038993	3.051	
			23860.3627	0.241738	300.657	0.012318

36°28'	606290.6009	30.821315	5943.5502	0.038985	3.051	
			23874.8670	0.241842	300.970	0.012318
36°29'	608139.8798	30.821401	5945.8893	0.038976	3.051	
			23889.3775	0.241945	301.282	0.012318

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°30'	609989.1638	30.821487	5948.2279	0.038968	3.051	
			23903.8942	0.242049	301.595	0.012318
36°31'	611838.4531	30.821574	5950.5659	0.038959	3.051	
			23918.4172	0.242153	301.909	0.012318
36°32'	613687.7475	30.821660	5952.9035	0.038951	3.051	
			23932.9464	0.242257	302.223	0.012318
36°33'	615537.0471	30.821746	5955.2406	0.038943	3.050	
			23947.4818	0.242361	302.537	0.012317
36°34'	617386.3519	30.821833	5957.5771	0.038934	3.050	
			23962.0235	0.242466	302.851	0.012317
36°35'	619235.6618	30.821919	5959.9132	0.038926	3.050	
			23976.5714	0.242570	303.166	0.012317
36°36'	621084.9770	30.822005	5962.2487	0.038917	3.050	
			23991.1256	0.242674	303.481	0.012317
36°37'	622934.2973	30.822092	5964.5838	0.038909	3.050	
			24005.6860	0.242779	303.797	0.012317
36°38'	624783.6228	30.822178	5966.9183	0.038901	3.050	
			24020.2528	0.242884	304.113	0.012317
36°39'	626632.9535	30.822265	5969.2524	0.038892	3.050	
			24034.8258	0.242988	304.429	0.012317
36°40'	628482.2894	30.822351	5971.5859	0.038884	3.050	
			24049.4051	0.243093	304.746	0.012317
36°41'	630331.6305	30.822438	5973.9189	0.038875	3.049	
			24063.9907	0.243198	305.063	0.012317
36°42'	632180.9767	30.822524	5976.2515	0.038867	3.049	
			24078.5826	0.243303	305.381	0.012317
36°43'	634030.3282	30.822611	5978.5835	0.038859	3.049	
			24093.1808	0.243409	305.699	0.012317
36°44'	635879.6848	30.822697	5980.9150	0.038850	3.049	
			24107.7853	0.243514	306.017	0.012317
36°45'	637729.0467	30.822784	5983.2460	0.038842	3.049	
			24122.3962	0.243620	306.336	0.012317
36°46'	639578.4137	30.822870	5985.5765	0.038833	3.049	
			24137.0133	0.243725	306.655	0.012317
36°47'	641427.7859	30.822957	5987.9065	0.038825	3.048	
			24151.6369	0.243831	306.974	0.012317
36°48'	643277.1633	30.823043	5990.2360	0.038816	3.048	
			24166.2667	0.243937	307.294	0.012317
36°49'	645126.5459	30.823130	5992.5650	0.038808	3.048	
			24180.9029	0.244042	307.614	0.012317

36°50'	646975.9337	30.823217	5994.8934	0.038799	3.048	
			24195.5454	0.244148	307.935	0.012317
36°51'	648825.3267	30.823303	5997.2214	0.038791	3.048	
			24210.1943	0.244255	308.256	0.012317

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"

(I)0.0000 -0.0004 -0.0006 -0.0006(XIV)0.0000 -0.0004 -0.0007 -0.0008

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°52'	650674.7249	30.823390	5999.5489	0.038783	3.048	
			24224.8496	0.244361	308.577	0.012317
36°53'	652524.1283	30.823477	6001.8758	0.038774	3.047	
			24239.5113	0.244467	308.899	0.012317
36°54'	654373.5369	30.823563	6004.2023	0.038766	3.047	
			24254.1793	0.244574	309.221	0.012317
36°55'	656222.9507	30.823650	6006.5282	0.038757	3.047	
			24268.8537	0.244680	309.543	0.012316
36°56'	658072.3697	30.823737	6008.8536	0.038749	3.047	
			24283.5345	0.244787	309.866	0.012316
36°57'	659921.7939	30.823823	6011.1785	0.038740	3.047	
			24298.2217	0.244894	310.189	0.012316
36°58'	661771.2233	30.823910	6013.5029	0.038732	3.047	
			24312.9153	0.245000	310.513	0.012316
36°59'	663620.6579	30.823997	6015.8268	0.038723	3.046	
			24327.6154	0.245108	310.837	0.012316
37° 0'	665470.0977	30.824084	6018.1502	0.038715	3.046	
			24342.3218	0.245215	311.161	0.012316
37° 1'	667319.5427	30.824170	6020.4731	0.038706	3.046	
			24357.0347	0.245322	311.486	0.012316
37° 2'	669168.9929	30.824257	6022.7955	0.038698	3.046	
			24371.7540	0.245429	311.811	0.012316
37° 3'	671018.4483	30.824344	6025.1173	0.038689	3.046	
			24386.4798	0.245537	312.137	0.012316
37° 4'	672867.9089	30.824431	6027.4387	0.038681	3.046	
			24401.2120	0.245644	312.463	0.012316
37° 5'	674717.3748	30.824518	6029.7595	0.038672	3.045	
			24415.9506	0.245752	312.789	0.012316
37° 6'	676566.8458	30.824604	6032.0799	0.038664	3.045	
			24430.6957	0.245860	313.116	0.012316
37° 7'	678416.3221	30.824691	6034.3997	0.038655	3.045	
			24445.4473	0.245968	313.443	0.012316
37° 8'	680265.8036	30.824778	6036.7190	0.038647	3.045	
			24460.2054	0.246076	313.771	0.012316
37° 9'	682115.2903	30.824865	6039.0378	0.038638	3.045	
			24474.9699	0.246184	314.099	0.012316
37°10'	683964.7822	30.824952	6041.3561	0.038630	3.044	
			24489.7409	0.246292	314.427	0.012316
37°11'	685814.2793	30.825039	6043.6739	0.038621	3.044	
			24504.5184	0.246400	314.756	0.012316

37°12'	687663.7816	30.825126	6045.9911	0.038613	3.044	
			24519.3025	0.246509	315.085	0.012316
37°13'	689513.2892	30.825213	6048.3079	0.038604	3.044	
			24534.0930	0.246617	315.415	0.012316

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ARIZONA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°14'	691362.8019	30.825300	6050.6241	0.038596	3.044	
			24548.8900	0.246726	315.745	0.012316
37°15'	693212.3199	30.825387	6052.9399	0.038587	3.043	
			24563.6936	0.246835	316.075	0.012316
37°16'	695061.8431	30.825474	6055.2551	0.038578	3.043	
			24578.5037	0.246944	316.406	0.012315
37°17'	696911.3715	30.825561	6057.5698	0.038570	3.043	
			24593.3203	0.247053	316.737	0.012315
37°18'	698760.9052	30.825648	6059.8840	0.038561	3.043	
			24608.1435	0.247162	317.068	0.012315
37°19'	700610.4440	30.825735	6062.1977	0.038553	3.043	
			24622.9733	0.247271	317.400	0.012315
37°20'	702459.9881	30.825822	6064.5109	0.038544	3.042	
			24637.8095	0.247381	317.733	0.012315

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is ARKANSAS SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 32° 40' (latitude of grid origin)
λ_{CM} = 92 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 33 18 (southern standard parallel)
ϕ_n = 34 46 (northern standard parallel)
E_o = 400000.0000 m (easting coordinate of origin)
N_b = 400000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.559690686831 = $\sin(\phi_o)$
K = 13438989.7695 m (mapping radius at the equator)
R_b = 9604584.2290 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	34 2 0.00000 92 30 0.00000	9453004.317 m -0 16 47.44324	-0.0048842032 0.9999880722	353829.606 m 551692.666 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o/((R_b-(N - N_b)$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	450000.000 m 560000.000 m	50000.000 m 9444584.229 m	9444716.5790 m 0 18 11.96379	34 6 28.9983 91 27 28.9870

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
ARKANSAS SOUTH

Lat	R (meters)	tab diff.	k
32° 40'	9604584.229	30.81127	1.00020059
32 41	9602735.553	30.81114	1.00019378
32 42	9600886.885	30.81101	1.00018704
32 43	9599038.224	30.81089	1.00018039
32 44	9597189.570	30.81077	1.00017382
32 45	9595340.924	30.81066	1.00016734
32 46	9593492.284	30.81054	1.00016093
32 47	9591643.652	30.81043	1.00015462
32 48	9589795.026	30.81032	1.00014838
32 49	9587946.406	30.81022	1.00014223
32 50	9586097.793	30.81011	1.00013616
32 51	9584249.186	30.81001	1.00013017
32 52	9582400.586	30.80991	1.00012427
32 53	9580551.991	30.80982	1.00011845
32 54	9578703.402	30.80973	1.00011271
32 55	9576854.818	30.80964	1.00010705
32 56	9575006.240	30.80955	1.00010148
32 57	9573157.667	30.80946	1.00009600
32 58	9571309.099	30.80938	1.00009059
32 59	9569460.537	30.80930	1.00008527
33 0	9567611.979	30.80922	1.00008003
33 1	9565763.426	30.80915	1.00007488
33 2	9563914.877	30.80907	1.00006981
33 3	9562066.332	30.80900	1.00006482
33 4	9560217.792	30.80894	1.00005991
33 5	9558369.256	30.80887	1.00005509
33 6	9556520.724	30.80881	1.00005035
33 7	9554672.195	30.80875	1.00004570
33 8	9552823.670	30.80869	1.00004113
33 9	9550975.149	30.80864	1.00003664
33 10	9549126.631	30.80859	1.00003223
33 11	9547278.115	30.80854	1.00002791
33 12	9545429.603	30.80849	1.00002368
33 13	9543581.094	30.80845	1.00001952
33 14	9541732.587	30.80840	1.00001545
33 15	9539884.083	30.80837	1.00001146
33 16	9538035.581	30.80833	1.00000756
33 17	9536187.081	30.80830	1.00000374
33 18	9534338.583	30.80826	1.00000000
33 19	9532490.087	30.80824	0.99999635

Lambert conformal conic projection tables
ARKANSAS SOUTH

Lat	R (meters)	tab diff.	k
33° 20'	9530641.593	30.80821	0.99999278
33 21	9528793.101	30.80819	0.99998929
33 22	9526944.609	30.80817	0.99998589
33 23	9525096.119	30.80815	0.99998257
33 24	9523247.631	30.80813	0.99997933
33 25	9521399.143	30.80812	0.99997618
33 26	9519550.655	30.80811	0.99997311
33 27	9517702.169	30.80810	0.99997013
33 28	9515853.683	30.80810	0.99996722
33 29	9514005.197	30.80809	0.99996441
33 30	9512156.711	30.80809	0.99996167
33 31	9510308.226	30.80810	0.99995902
33 32	9508459.740	30.80810	0.99995646
33 33	9506611.254	30.80811	0.99995397
33 34	9504762.767	30.80812	0.99995157
33 35	9502914.280	30.80813	0.99994926
33 36	9501065.792	30.80815	0.99994703
33 37	9499217.303	30.80817	0.99994488
33 38	9497368.813	30.80819	0.99994282
33 39	9495520.322	30.80821	0.99994084
33 40	9493671.829	30.80824	0.99993894
33 41	9491823.335	30.80827	0.99993713
33 42	9489974.839	30.80830	0.99993540
33 43	9488126.341	30.80833	0.99993376
33 44	9486277.841	30.80837	0.99993219
33 45	9484429.339	30.80841	0.99993072
33 46	9482580.834	30.80845	0.99992933
33 47	9480732.328	30.80849	0.99992802
33 48	9478883.818	30.80854	0.99992679
33 49	9477035.306	30.80859	0.99992565
33 50	9475186.790	30.80864	0.99992459
33 51	9473338.272	30.80870	0.99992362
33 52	9471489.750	30.80875	0.99992273
33 53	9469641.225	30.80881	0.99992193
33 54	9467792.696	30.80888	0.99992121
33 55	9465944.163	30.80894	0.99992057
33 56	9464095.627	30.80901	0.99992002
33 57	9462247.086	30.80908	0.99991955
33 58	9460398.541	30.80915	0.99991917
33 59	9458549.992	30.80923	0.99991886

Lambert conformal conic projection tables
ARKANSAS SOUTH

Lat	R (meters)	tab diff.	k
34° 0'	9456701.438	30.80931	0.99991865
34 1	9454852.880	30.80939	0.99991852
34 2	9453004.317	30.80947	0.99991847
34 3	9451155.748	30.80956	0.99991851
34 4	9449307.175	30.80965	0.99991863
34 5	9447458.596	30.80974	0.99991883
34 6	9445610.012	30.80983	0.99991912
34 7	9443761.422	30.80993	0.99991950
34 8	9441912.826	30.81003	0.99991995
34 9	9440064.225	30.81013	0.99992050
34 10	9438215.617	30.81023	0.99992112
34 11	9436367.003	30.81034	0.99992183
34 12	9434518.383	30.81045	0.99992263
34 13	9432669.756	30.81056	0.99992351
34 14	9430821.122	30.81068	0.99992447
34 15	9428972.481	30.81079	0.99992552
34 16	9427123.834	30.81091	0.99992665
34 17	9425275.179	30.81104	0.99992787
34 18	9423426.516	30.81116	0.99992917
34 19	9421577.847	30.81129	0.99993056
34 20	9419729.169	30.81142	0.99993203
34 21	9417880.484	30.81155	0.99993359
34 22	9416031.791	30.81169	0.99993523
34 23	9414183.089	30.81183	0.99993695
34 24	9412334.379	30.81197	0.99993876
34 25	9410485.661	30.81211	0.99994066
34 26	9408636.934	30.81226	0.99994263
34 27	9406788.199	30.81241	0.99994470
34 28	9404939.454	30.81256	0.99994684
34 29	9403090.700	30.81272	0.99994908
34 30	9401241.937	30.81287	0.99995139
34 31	9399393.165	30.81303	0.99995380
34 32	9397544.383	30.81319	0.99995628
34 33	9395695.592	30.81336	0.99995885
34 34	9393846.790	30.81353	0.99996151
34 35	9391997.978	30.81370	0.99996425
34 36	9390149.157	30.81387	0.99996708
34 37	9388300.324	30.81404	0.99996999
34 38	9386451.482	30.81422	0.99997298
34 39	9384602.628	30.81440	0.99997606

Lambert conformal conic projection tables
ARKANSAS SOUTH

Lat	R (meters)	tab diff.	k
34° 40'	9382753.764	30.81459	0.99997923
34 41	9380904.889	30.81477	0.99998248
34 42	9379056.003	30.81496	0.99998581
34 43	9377207.105	30.81515	0.99998923
34 44	9375358.196	30.81535	0.99999274
34 45	9373509.275	30.81554	0.99999633
34 46	9371660.343	30.81574	1.0000000
34 47	9369811.398	30.81594	1.00000376
34 48	9367962.442	30.81615	1.00000760
34 49	9366113.473	30.81635	1.00001153
34 50	9364264.492	30.81656	1.00001555
34 51	9362415.498	30.81678	1.00001965
34 52	9360566.491	30.81699	1.00002383
34 53	9358717.472	30.81721	1.00002810
34 54	9356868.439	30.81743	1.00003246
34 55	9355019.393	30.81765	1.00003690
34 56	9353170.334	30.81788	1.00004142
34 57	9351321.262	30.81811	1.00004604
34 58	9349472.175	30.81834	1.00005073
34 59	9347623.075	30.81857	1.00005551
35 0	9345773.961	30.81881	1.00006038
35 1	9343924.833	30.81904	1.00006533
35 2	9342075.690	30.81929	1.00007037
35 3	9340226.533	30.81953	1.00007549
35 4	9338377.361	30.81978	1.00008070
35 5	9336528.175	30.82003	1.00008599
35 6	9334678.973	30.82028	1.00009137
35 7	9332829.756	30.82053	1.00009683
35 8	9330980.525	30.82079	1.00010238
35 9	9329131.277	30.82105	1.00010802
35 10	9327282.014	30.82131	1.00011374
35 11	9325432.736	30.82158	1.00011954
35 12	9323583.441	30.82184	1.00012543
35 13	9321734.130	30.82212	1.00013141
35 14	9319884.803	30.82239	1.00013747
35 15	9318035.460	30.82266	1.00014362
35 16	9316186.100	30.82294	1.00014985
35 17	9314336.724	30.82322	1.00015617
35 18	9312487.330	30.82351	1.00016258
35 19	9310637.920	30.82379	1.00016907

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is CALIFORNIA 1

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 39°20' (latitude of grid origin)
λ_{CM} = 122 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 0 (southern standard parallel)
ϕ_n = 41 40 (northern standard parallel)
E_o =2000000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.653884305401 = $\sin(\phi_o)$
K = 12287826.3052 m (mapping radius at the equator)
R_b = 7556554.6408 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	40 50 0.00000 122 30 0.00000	7389998.909 m -0 19 36.99175	-0.0057061861 0.9999837196	1957831.291 m 666676.044 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	2050000.000 m 670000.000 m	50000.000 m 7386554.641 m	7386723.8653 m 0 23 16.19664	40 51 46.1801 121 24 24.7650

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 1

Lat	R (meters)	tab diff.	k
39°20'	7556554.641	30.84656	1.00023430
39 21	7554703.847	30.84642	1.00022683
39 22	7552853.062	30.84628	1.00021944
39 23	7551002.286	30.84614	1.00021213
39 24	7549151.517	30.84601	1.00020491
39 25	7547300.756	30.84588	1.00019777
39 26	7545450.004	30.84575	1.00019071
39 27	7543599.258	30.84563	1.00018373
39 28	7541748.521	30.84550	1.00017684
39 29	7539897.791	30.84538	1.00017003
39 30	7538047.068	30.84527	1.00016330
39 31	7536196.352	30.84515	1.00015665
39 32	7534345.642	30.84504	1.00015009
39 33	7532494.940	30.84493	1.00014361
39 34	7530644.244	30.84482	1.00013721
39 35	7528793.555	30.84472	1.00013090
39 36	7526942.872	30.84462	1.00012467
39 37	7525092.195	30.84452	1.00011852
39 38	7523241.524	30.84442	1.00011245
39 39	7521390.859	30.84432	1.00010647
39 40	7519540.199	30.84423	1.00010057
39 41	7517689.546	30.84414	1.00009475
39 42	7515838.897	30.84406	1.00008902
39 43	7513988.254	30.84397	1.00008337
39 44	7512137.615	30.84389	1.00007780
39 45	7510286.982	30.84381	1.00007231
39 46	7508436.353	30.84373	1.00006691
39 47	7506585.729	30.84366	1.00006159
39 48	7504735.109	30.84359	1.00005636
39 49	7502884.494	30.84352	1.00005120
39 50	7501033.883	30.84345	1.00004613
39 51	7499183.276	30.84339	1.00004114
39 52	7497332.672	30.84333	1.00003624
39 53	7495482.072	30.84327	1.00003142
39 54	7493631.476	30.84322	1.00002668
39 55	7491780.883	30.84316	1.00002203
39 56	7489930.293	30.84311	1.00001745
39 57	7488079.707	30.84306	1.00001297
39 58	7486229.123	30.84302	1.00000856
39 59	7484378.542	30.84297	1.00000424

Lambert conformal conic projection tables
CALIFORNIA 1

Lat	R (meters)	tab diff.	k
40° 0'	7482527.964	30.84293	1.00000000
40 1	7480677.388	30.84290	0.99999584
40 2	7478826.814	30.84286	0.99999177
40 3	7476976.242	30.84283	0.99998778
40 4	7475125.673	30.84280	0.99998388
40 5	7473275.105	30.84277	0.99998006
40 6	7471424.538	30.84274	0.99997632
40 7	7469573.974	30.84272	0.99997266
40 8	7467723.410	30.84270	0.99996909
40 9	7465872.848	30.84269	0.99996560
40 10	7464022.287	30.84267	0.99996220
40 11	7462171.727	30.84266	0.99995887
40 12	7460321.167	30.84265	0.99995564
40 13	7458470.608	30.84264	0.99995248
40 14	7456620.050	30.84264	0.99994941
40 15	7454769.492	30.84264	0.99994642
40 16	7452918.933	30.84264	0.99994352
40 17	7451068.375	30.84264	0.99994070
40 18	7449217.817	30.84265	0.99993796
40 19	7447367.258	30.84265	0.99993531
40 20	7445516.699	30.84267	0.99993274
40 21	7443666.139	30.84268	0.99993025
40 22	7441815.578	30.84270	0.99992785
40 23	7439965.016	30.84272	0.99992553
40 24	7438114.453	30.84274	0.99992329
40 25	7436263.889	30.84276	0.99992114
40 26	7434413.324	30.84279	0.99991908
40 27	7432562.756	30.84282	0.99991709
40 28	7430712.187	30.84285	0.99991519
40 29	7428861.616	30.84288	0.99991338
40 30	7427011.043	30.84292	0.99991164
40 31	7425160.468	30.84296	0.99991000
40 32	7423309.891	30.84300	0.99990843
40 33	7421459.310	30.84305	0.99990695
40 34	7419608.728	30.84309	0.99990555
40 35	7417758.142	30.84314	0.99990424
40 36	7415907.553	30.84320	0.99990301
40 37	7414056.961	30.84325	0.99990187
40 38	7412206.366	30.84331	0.99990081
40 39	7410355.768	30.84337	0.99989983

Lambert conformal conic projection tables
CALIFORNIA 1

Lat	R (meters)	tab diff.	k
40°40'	7408505.165	30.84343	0.99989894
40 41	7406654.559	30.84350	0.99989813
40 42	7404803.949	30.84357	0.99989740
40 43	7402953.335	30.84364	0.99989676
40 44	7401102.717	30.84371	0.99989621
40 45	7399252.094	30.84379	0.99989573
40 46	7397401.467	30.84387	0.99989535
40 47	7395550.835	30.84395	0.99989504
40 48	7393700.198	30.84403	0.99989482
40 49	7391849.556	30.84412	0.99989469
40 50	7389998.909	30.84421	0.99989464
40 51	7388148.256	30.84430	0.99989467
40 52	7386297.598	30.84439	0.99989479
40 53	7384446.935	30.84449	0.99989499
40 54	7382596.265	30.84459	0.99989528
40 55	7380745.590	30.84469	0.99989565
40 56	7378894.908	30.84480	0.99989610
40 57	7377044.220	30.84491	0.99989664
40 58	7375193.526	30.84502	0.99989726
40 59	7373342.825	30.84513	0.99989797
41 0	7371492.117	30.84524	0.99989876
41 1	7369641.403	30.84536	0.99989964
41 2	7367790.681	30.84548	0.99990060
41 3	7365939.952	30.84560	0.99990165
41 4	7364089.216	30.84573	0.99990278
41 5	7362238.472	30.84586	0.99990400
41 6	7360387.721	30.84599	0.99990530
41 7	7358536.961	30.84612	0.99990668
41 8	7356686.194	30.84626	0.99990815
41 9	7354835.419	30.84640	0.99990970
41 10	7352984.635	30.84654	0.99991134
41 11	7351133.842	30.84668	0.99991307
41 12	7349283.041	30.84683	0.99991487
41 13	7347432.232	30.84698	0.99991677
41 14	7345581.413	30.84713	0.99991874
41 15	7343730.585	30.84729	0.99992081
41 16	7341879.748	30.84744	0.99992295
41 17	7340028.901	30.84760	0.99992519
41 18	7338178.045	30.84776	0.99992750
41 19	7336327.179	30.84793	0.99992991

Lambert conformal conic projection tables
CALIFORNIA 1

Lat	R (meters)	tab diff.	k
41°20'	7334476.303	30.84810	0.99993239
41 21	7332625.418	30.84827	0.99993496
41 22	7330774.521	30.84844	0.99993762
41 23	7328923.615	30.84862	0.99994036
41 24	7327072.698	30.84879	0.99994319
41 25	7325221.770	30.84898	0.99994610
41 26	7323370.832	30.84916	0.99994910
41 27	7321519.882	30.84934	0.99995218
41 28	7319668.922	30.84953	0.99995535
41 29	7317817.950	30.84972	0.99995860
41 30	7315966.966	30.84992	0.99996194
41 31	7314115.971	30.85012	0.99996536
41 32	7312264.964	30.85031	0.99996887
41 33	7310413.945	30.85052	0.99997246
41 34	7308562.914	30.85072	0.99997614
41 35	7306711.871	30.85093	0.99997990
41 36	7304860.815	30.85114	0.99998375
41 37	7303009.747	30.85135	0.99998769
41 38	7301158.666	30.85157	0.99999170
41 39	7299307.572	30.85178	0.99999581
41 40	7297456.465	30.85200	1.00000000
41 41	7295605.345	30.85223	1.00000428
41 42	7293754.211	30.85245	1.00000864
41 43	7291903.064	30.85268	1.00001308
41 44	7290051.903	30.85291	1.00001762
41 45	7288200.728	30.85315	1.00002223
41 46	7286349.540	30.85338	1.00002694
41 47	7284498.337	30.85362	1.00003173
41 48	7282647.120	30.85386	1.00003660
41 49	7280795.888	30.85411	1.00004156
41 50	7278944.642	30.85435	1.00004661
41 51	7277093.380	30.85460	1.00005174
41 52	7275242.104	30.85485	1.00005695
41 53	7273390.813	30.85511	1.00006226
41 54	7271539.506	30.85537	1.00006764
41 55	7269688.184	30.85563	1.00007312
41 56	7267836.847	30.85589	1.00007868
41 57	7265985.493	30.85616	1.00008432
41 58	7264134.124	30.85642	1.00009006
41 59	7262282.739	30.85669	1.00009587

Lambert conformal conic projection tables
CALIFORNIA 1

Lat	R (meters)	tab diff.	k
42° 0'	7260431.337	30.85697	1.00010178
42 1	7258579.919	30.85724	1.00010777
42 2	7256728.484	30.85752	1.00011384
42 3	7254877.033	30.85780	1.00012000
42 4	7253025.565	30.85809	1.00012625
42 5	7251174.080	30.85837	1.00013258
42 6	7249322.577	30.85866	1.00013900
42 7	7247471.057	30.85896	1.00014551
42 8	7245619.520	30.85925	1.00015210
42 9	7243767.965	30.85955	1.00015878
42 10	7241916.392	30.85985	1.00016554
42 11	7240064.801	30.86015	1.00017239
42 12	7238213.192	30.86046	1.00017933
42 13	7236361.565	30.86076	1.00018635
42 14	7234509.919	30.86107	1.00019346
42 15	7232658.255	30.86139	1.00020065
42 16	7230806.572	30.86170	1.00020793
42 17	7228954.869	30.86202	1.00021530
42 18	7227103.148	30.86234	1.00022275
42 19	7225251.408	30.86267	1.00023029
42 20	7223399.648	30.86299	1.00023792

Lambert conformal conic projection with two standard parallels

Plane coordinate projection tables
DATUM: NAD 83
The projection is CALIFORNIA 2

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

φ_b = 37°40' (latitude of grid origin)
λ_{CM} = 122 0 (longitude of origin and Central Meridian, CM)
φ_s = 38 20 (southern standard parallel)
φ_n = 39 50 (northern standard parallel)
$E_\circ$ =2000000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.630468335286 = $\sin(\varphi_\circ)$
K = 12520351.6538 m (mapping radius at the equator)
R_b = 8019788.9307 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (φ, λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\varphi_\circ)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_\circ$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	39 5 0.00000 122 30 0.00000	7862531.328 m -0 18 54.84300	-0.0055018464 0.9999848647	1956741.560 m 657376.604 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_\circ)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
φ from table using R

Station	E N	E - $E_\circ$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	2050000.000 m 660000.000 m	50000.000 m 7859788.931 m	7859947.9664 m 0 21 52.13462	39 6 23.7788 121 25 18.7938

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 2

Lat	R (meters)	tab diff.	k
37°40'	8019788.931	30.83725	1.00021770
37 41	8017938.696	30.83712	1.00021064
37 42	8016088.468	30.83700	1.00020366
37 43	8014238.248	30.83687	1.00019677
37 44	8012388.036	30.83675	1.00018995
37 45	8010537.831	30.83663	1.00018322
37 46	8008687.633	30.83652	1.00017658
37 47	8006837.442	30.83640	1.00017002
37 48	8004987.258	30.83629	1.00016354
37 49	8003137.081	30.83618	1.00015714
37 50	8001286.910	30.83608	1.00015082
37 51	7999436.745	30.83597	1.00014459
37 52	7997586.587	30.83587	1.00013844
37 53	7995736.434	30.83577	1.00013238
37 54	7993886.288	30.83568	1.00012639
37 55	7992036.147	30.83559	1.00012049
37 56	7990186.012	30.83550	1.00011468
37 57	7988335.882	30.83541	1.00010894
37 58	7986485.758	30.83532	1.00010329
37 59	7984635.639	30.83524	1.00009772
38 0	7982785.524	30.83516	1.00009224
38 1	7980935.415	30.83508	1.00008684
38 2	7979085.310	30.83501	1.00008152
38 3	7977235.209	30.83493	1.00007628
38 4	7975385.113	30.83486	1.00007113
38 5	7973535.022	30.83480	1.00006606
38 6	7971684.934	30.83473	1.00006107
38 7	7969834.850	30.83467	1.00005617
38 8	7967984.770	30.83461	1.00005135
38 9	7966134.693	30.83455	1.00004661
38 10	7964284.620	30.83450	1.00004196
38 11	7962434.550	30.83445	1.00003739
38 12	7960584.483	30.83440	1.00003290
38 13	7958734.419	30.83435	1.00002850
38 14	7956884.358	30.83431	1.00002417
38 15	7955034.300	30.83426	1.00001994
38 16	7953184.244	30.83423	1.00001578
38 17	7951334.191	30.83419	1.00001171
38 18	7949484.139	30.83416	1.00000772
38 19	7947634.090	30.83412	1.00000382

Lambert conformal conic projection tables
CALIFORNIA 2

Lat	R (meters)	tab diff.	k
38°20'	7945784.043	30.83410	1.00000000
38 21	7943933.997	30.83407	0.99999626
38 22	7942083.953	30.83405	0.99999261
38 23	7940233.910	30.83402	0.99998904
38 24	7938383.868	30.83401	0.99998555
38 25	7936533.828	30.83399	0.99998215
38 26	7934683.789	30.83398	0.99997883
38 27	7932833.750	30.83397	0.99997559
38 28	7930983.712	30.83396	0.99997244
38 29	7929133.674	30.83395	0.99996937
38 30	7927283.637	30.83395	0.99996638
38 31	7925433.600	30.83395	0.99996348
38 32	7923583.563	30.83395	0.99996066
38 33	7921733.526	30.83396	0.99995793
38 34	7919883.488	30.83397	0.99995528
38 35	7918033.450	30.83398	0.99995271
38 36	7916183.412	30.83399	0.99995022
38 37	7914333.372	30.83400	0.99994782
38 38	7912483.332	30.83402	0.99994551
38 39	7910633.291	30.83404	0.99994327
38 40	7908783.248	30.83407	0.99994112
38 41	7906933.204	30.83409	0.99993906
38 42	7905083.159	30.83412	0.99993708
38 43	7903233.112	30.83415	0.99993518
38 44	7901383.063	30.83418	0.99993337
38 45	7899533.012	30.83422	0.99993164
38 46	7897682.958	30.83426	0.99992999
38 47	7895832.903	30.83430	0.99992843
38 48	7893982.845	30.83434	0.99992695
38 49	7892132.784	30.83439	0.99992555
38 50	7890282.721	30.83444	0.99992424
38 51	7888432.654	30.83449	0.99992302
38 52	7886582.585	30.83455	0.99992188
38 53	7884732.512	30.83460	0.99992082
38 54	7882882.436	30.83466	0.99991984
38 55	7881032.356	30.83472	0.99991895
38 56	7879182.273	30.83479	0.99991814
38 57	7877332.186	30.83486	0.99991742
38 58	7875482.094	30.83493	0.99991678

38 59	7873631.999	30.83500	0.99991623

Lambert conformal conic projection tables
CALIFORNIA 2

Lat	R (meters)	tab diff.	k
39° 0'	7871781.899	30.83507	0.99991576
39 1	7869931.794	30.83515	0.99991537
39 2	7868081.685	30.83523	0.99991507
39 3	7866231.571	30.83531	0.99991486
39 4	7864381.452	30.83540	0.99991472
39 5	7862531.328	30.83549	0.99991467
39 6	7860681.199	30.83558	0.99991471
39 7	7858831.064	30.83567	0.99991483
39 8	7856980.924	30.83577	0.99991503
39 9	7855130.778	30.83587	0.99991532
39 10	7853280.626	30.83597	0.99991569
39 11	7851430.467	30.83607	0.99991615
39 12	7849580.303	30.83618	0.99991669
39 13	7847730.132	30.83629	0.99991732
39 14	7845879.955	30.83640	0.99991803
39 15	7844029.771	30.83651	0.99991882
39 16	7842179.580	30.83663	0.99991970
39 17	7840329.382	30.83675	0.99992066
39 18	7838479.177	30.83687	0.99992171
39 19	7836628.965	30.83700	0.99992284
39 20	7834778.745	30.83712	0.99992406
39 21	7832928.518	30.83725	0.99992536
39 22	7831078.282	30.83739	0.99992675
39 23	7829228.039	30.83752	0.99992822
39 24	7827377.788	30.83766	0.99992978
39 25	7825527.528	30.83780	0.99993142
39 26	7823677.260	30.83794	0.99993314
39 27	7821826.983	30.83809	0.99993495
39 28	7819976.698	30.83824	0.99993685
39 29	7818126.404	30.83839	0.99993882
39 30	7816276.100	30.83854	0.99994089
39 31	7814425.788	30.83870	0.99994304
39 32	7812575.466	30.83886	0.99994527
39 33	7810725.134	30.83902	0.99994759
39 34	7808874.793	30.83918	0.99994999
39 35	7807024.442	30.83935	0.99995248
39 36	7805174.081	30.83952	0.99995505
39 37	7803323.710	30.83969	0.99995771

39 38	7801473.328	30.83987	0.99996045
39 39	7799622.936	30.84004	0.99996328

Lambert conformal conic projection tables
CALIFORNIA 2

Lat	R (meters)	tab diff.	k
39°40'	7797772.534	30.84022	0.99996619
39 41	7795922.120	30.84041	0.99996919
39 42	7794071.696	30.84059	0.99997227
39 43	7792221.260	30.84078	0.99997544
39 44	7790370.814	30.84097	0.99997870
39 45	7788520.355	30.84116	0.99998203
39 46	7786669.886	30.84136	0.99998546
39 47	7784819.404	30.84156	0.99998896
39 48	7782968.911	30.84176	0.99999256
39 49	7781118.405	30.84196	0.99999624
39 50	7779267.887	30.84217	1.00000000
39 51	7777417.357	30.84238	1.00000385
39 52	7775566.815	30.84259	1.00000778
39 53	7773716.259	30.84280	1.00001180
39 54	7771865.691	30.84302	1.00001591
39 55	7770015.110	30.84324	1.00002010
39 56	7768164.516	30.84346	1.00002437
39 57	7766313.908	30.84369	1.00002873
39 58	7764463.287	30.84391	1.00003318
39 59	7762612.652	30.84414	1.00003771
40 0	7760762.004	30.84438	1.00004233
40 1	7758911.341	30.84461	1.00004703
40 2	7757060.664	30.84485	1.00005182
40 3	7755209.973	30.84509	1.00005669
40 4	7753359.268	30.84533	1.00006165
40 5	7751508.548	30.84558	1.00006670
40 6	7749657.813	30.84583	1.00007183
40 7	7747807.064	30.84608	1.00007704
40 8	7745956.299	30.84633	1.00008234
40 9	7744105.519	30.84659	1.00008773
40 10	7742254.724	30.84685	1.00009320
40 11	7740403.913	30.84711	1.00009876
40 12	7738553.086	30.84737	1.00010440
40 13	7736702.244	30.84764	1.00011013
40 14	7734851.385	30.84791	1.00011595
40 15	7733000.510	30.84818	1.00012185
40 16	7731149.619	30.84846	1.00012784

40 17	7729298.712	30.84874	1.00013391
40 18	7727447.788	30.84902	1.00014007
40 19	7725596.847	30.84930	1.00014631

Lambert conformal conic projection tables
CALIFORNIA 2

Lat	R (meters)	tab diff.	k
40°20'	7723745.889	30.84959	1.00015265
40 21	7721894.913	30.84987	1.00015906
40 22	7720043.921	30.85017	1.00016556
40 23	7718192.911	30.85046	1.00017215
40 24	7716341.883	30.85076	1.00017883
40 25	7714490.838	30.85106	1.00018559
40 26	7712639.775	30.85136	1.00019243
40 27	7710788.693	30.85166	1.00019937
40 28	7708937.594	30.85197	1.00020638
40 29	7707086.476	30.85228	1.00021349
40 30	7705235.339	30.85259	1.00022068

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is CALIFORNIA 3

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 36°30' (latitude of grid origin)
λ_{CM} = 120 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 37 4 (southern standard parallel)
ϕ_n = 38 26 (northern standard parallel)
E_o =2000000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.612232038294 = $\sin(\phi_o)$
K = 12724574.9735 m (mapping radius at the equator)
R_b = 8385775.1723 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	37 45 0.00000 121 0 0.00000	8247049.059 m -0 18 22.01767	-0.0053427070 0.9999857276	1955938.433 m 638843.819 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	$E - E_o$ $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	2050000.000 m 640000.000 m	50000.000 m 8245775.172 m	8245926.7637 m 0 20 50.71490	37 45 36.4040 119 55 57.1228

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 3

Lat	R (meters)	tab diff.	k
36°30'	8385775.172	30.82957	1.00016525
36 31	8383925.398	30.82946	1.00015902
36 32	8382075.630	30.82936	1.00015287
36 33	8380225.869	30.82926	1.00014681
36 34	8378376.113	30.82916	1.00014082
36 35	8376526.363	30.82907	1.00013492
36 36	8374676.619	30.82898	1.00012911
36 37	8372826.880	30.82889	1.00012337
36 38	8370977.147	30.82880	1.00011772
36 39	8369127.419	30.82872	1.00011215
36 40	8367277.695	30.82864	1.00010667
36 41	8365427.977	30.82856	1.00010127
36 42	8363578.264	30.82848	1.00009595
36 43	8361728.555	30.82841	1.00009071
36 44	8359878.850	30.82834	1.00008556
36 45	8358029.150	30.82827	1.00008049
36 46	8356179.453	30.82820	1.00007551
36 47	8354329.761	30.82814	1.00007060
36 48	8352480.073	30.82808	1.00006578
36 49	8350630.388	30.82802	1.00006105
36 50	8348780.706	30.82797	1.00005639
36 51	8346931.028	30.82791	1.00005182
36 52	8345081.354	30.82786	1.00004734
36 53	8343231.682	30.82782	1.00004293
36 54	8341382.013	30.82777	1.00003861
36 55	8339532.347	30.82773	1.00003438
36 56	8337682.683	30.82769	1.00003022
36 57	8335833.022	30.82765	1.00002615
36 58	8333983.363	30.82762	1.00002217
36 59	8332133.706	30.82758	1.00001826
37 0	8330284.051	30.82755	1.00001444
37 1	8328434.397	30.82753	1.00001071
37 2	8326584.746	30.82750	1.00000706
37 3	8324735.096	30.82748	1.00000349
37 4	8322885.447	30.82746	1.00000000
37 5	8321035.799	30.82744	0.99999660
37 6	8319186.153	30.82743	0.99999328
37 7	8317336.507	30.82742	0.99999004
37 8	8315486.862	30.82741	0.99998689
37 9	8313637.217	30.82740	0.99998382

Lambert conformal conic projection tables
CALIFORNIA 3

Lat	R (meters)	tab diff.	k
37°10'	8311787.573	30.82740	0.99998084
37 11	8309937.929	30.82740	0.99997794
37 12	8308088.285	30.82740	0.99997512
37 13	8306238.641	30.82740	0.99997239
37 14	8304388.997	30.82741	0.99996974
37 15	8302539.352	30.82742	0.99996717
37 16	8300689.707	30.82743	0.99996469
37 17	8298840.061	30.82745	0.99996229
37 18	8296990.415	30.82746	0.99995997
37 19	8295140.767	30.82748	0.99995774
37 20	8293291.118	30.82750	0.99995559
37 21	8291441.468	30.82753	0.99995353
37 22	8289591.816	30.82756	0.99995155
37 23	8287742.163	30.82759	0.99994965
37 24	8285892.508	30.82762	0.99994784
37 25	8284042.851	30.82765	0.99994611
37 26	8282193.191	30.82769	0.99994447
37 27	8280343.530	30.82773	0.99994291
37 28	8278493.866	30.82777	0.99994143
37 29	8276644.200	30.82782	0.99994004
37 30	8274794.530	30.82787	0.99993873
37 31	8272944.858	30.82792	0.99993750
37 32	8271095.183	30.82797	0.99993636
37 33	8269245.505	30.82803	0.99993530
37 34	8267395.823	30.82809	0.99993433
37 35	8265546.138	30.82815	0.99993344
37 36	8263696.449	30.82821	0.99993264
37 37	8261846.757	30.82828	0.99993192
37 38	8259997.060	30.82835	0.99993128
37 39	8258147.359	30.82842	0.99993073
37 40	8256297.654	30.82849	0.99993026
37 41	8254447.944	30.82857	0.99992987
37 42	8252598.230	30.82865	0.99992957
37 43	8250748.511	30.82873	0.99992936
37 44	8248898.788	30.82882	0.99992923
37 45	8247049.059	30.82890	0.99992918
37 46	8245199.324	30.82899	0.99992922
37 47	8243349.585	30.82908	0.99992934
37 48	8241499.840	30.82918	0.99992954
37 49	8239650.089	30.82928	0.99992983

Lambert conformal conic projection tables
CALIFORNIA 3

Lat	R (meters)	tab diff.	k
37°50'	8237800.332	30.82938	0.99993021
37 51	8235950.570	30.82948	0.99993066
37 52	8234100.801	30.82959	0.99993121
37 53	8232251.026	30.82969	0.99993183
37 54	8230401.244	30.82981	0.99993255
37 55	8228551.456	30.82992	0.99993334
37 56	8226701.661	30.83003	0.99993422
37 57	8224851.858	30.83015	0.99993519
37 58	8223002.049	30.83027	0.99993624
37 59	8221152.233	30.83040	0.99993737
38 0	8219302.409	30.83052	0.99993859
38 1	8217452.577	30.83065	0.99993989
38 2	8215602.738	30.83079	0.99994128
38 3	8213752.891	30.83092	0.99994275
38 4	8211903.036	30.83106	0.99994431
38 5	8210053.172	30.83120	0.99994595
38 6	8208203.301	30.83134	0.99994767
38 7	8206353.420	30.83148	0.99994948
38 8	8204503.531	30.83163	0.99995138
38 9	8202653.633	30.83178	0.99995336
38 10	8200803.727	30.83193	0.99995542
38 11	8198953.811	30.83209	0.99995757
38 12	8197103.885	30.83225	0.99995981
38 13	8195253.950	30.83241	0.99996213
38 14	8193404.006	30.83257	0.99996453
38 15	8191554.052	30.83274	0.99996702
38 16	8189704.087	30.83291	0.99996959
38 17	8187854.113	30.83308	0.99997225
38 18	8186004.129	30.83325	0.99997499
38 19	8184154.134	30.83343	0.99997782
38 20	8182304.128	30.83361	0.99998074
38 21	8180454.112	30.83379	0.99998373
38 22	8178604.085	30.83397	0.99998682
38 23	8176754.046	30.83416	0.99998999
38 24	8174903.997	30.83435	0.99999324
38 25	8173053.936	30.83454	0.99999658
38 26	8171203.863	30.83473	1.00000000
38 27	8169353.779	30.83493	1.00000351
38 28	8167503.683	30.83513	1.00000710
38 29	8165653.576	30.83533	1.00001078

Lambert conformal conic projection tables
CALIFORNIA 3

Lat	R (meters)	tab diff.	k
38°30'	8163803.455	30.83554	1.00001454
38 31	8161953.323	30.83575	1.00001839
38 32	8160103.178	30.83596	1.00002233
38 33	8158253.021	30.83617	1.00002635
38 34	8156402.850	30.83639	1.00003045
38 35	8154552.667	30.83661	1.00003464
38 36	8152702.471	30.83683	1.00003892
38 37	8150852.261	30.83705	1.00004328
38 38	8149002.038	30.83728	1.00004772
38 39	8147151.801	30.83751	1.00005225
38 40	8145301.551	30.83774	1.00005687
38 41	8143451.286	30.83797	1.00006157
38 42	8141601.008	30.83821	1.00006636
38 43	8139750.715	30.83845	1.00007123
38 44	8137900.408	30.83869	1.00007619
38 45	8136050.087	30.83894	1.00008123
38 46	8134199.751	30.83919	1.00008636
38 47	8132349.399	30.83944	1.00009158
38 48	8130499.033	30.83969	1.00009688
38 49	8128648.652	30.83994	1.00010226
38 50	8126798.255	30.84020	1.00010773
38 51	8124947.843	30.84046	1.00011329
38 52	8123097.415	30.84073	1.00011893
38 53	8121246.972	30.84099	1.00012466
38 54	8119396.512	30.84126	1.00013047
38 55	8117546.036	30.84153	1.00013637
38 56	8115695.544	30.84181	1.00014236
38 57	8113845.036	30.84208	1.00014843
38 58	8111994.511	30.84236	1.00015459
38 59	8110143.969	30.84265	1.00016083
39 0	8108293.410	30.84293	1.00016716

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is CALIFORNIA 4

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 35° 20' (latitude of grid origin)
λ_{CM} = 119 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 36 0 (southern standard parallel)
ϕ_n = 37 15 (northern standard parallel)
E. =2000000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.596587149880 = $\sin(\phi.)$
K = 12916986.0281 m (mapping radius at the equator)
R_b = 8733227.3793 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	36 37 30.00000 119 30 0.00000	8589902.246 m -0 17 53.85687	-0.0052061815 0.9999864477	1955279.410 m 643441.546 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	050000.000 m 650000.000 m	50000.000 m 8583227.379 m	8583373.0109 m 0 20 1.54380	36 41 1.8265 118 26 25.9710

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 4

Lat	R (meters)	tab diff.	k
35° 20'	8733227.379	30.82441	1.00019273
35 21	8731377.915	30.82430	1.00018629
35 22	8729528.457	30.82419	1.00017993
35 23	8727679.006	30.82408	1.00017366
35 24	8725829.561	30.82398	1.00016747
35 25	8723980.123	30.82387	1.00016136
35 26	8722130.690	30.82377	1.00015533
35 27	8720281.264	30.82368	1.00014939
35 28	8718431.843	30.82358	1.00014353
35 29	8716582.428	30.82349	1.00013776
35 30	8714733.018	30.82340	1.00013206
35 31	8712883.614	30.82332	1.00012646
35 32	8711034.215	30.82323	1.00012093
35 33	8709184.821	30.82315	1.00011549
35 34	8707335.432	30.82307	1.00011013
35 35	8705486.047	30.82300	1.00010485
35 36	8703636.668	30.82292	1.00009966
35 37	8701787.292	30.82285	1.00009454
35 38	8699937.921	30.82279	1.00008952
35 39	8698088.554	30.82272	1.00008457
35 40	8696239.190	30.82266	1.00007971
35 41	8694389.831	30.82260	1.00007493
35 42	8692540.475	30.82254	1.00007024
35 43	8690691.123	30.82248	1.00006563
35 44	8688841.774	30.82243	1.00006110
35 45	8686992.428	30.82238	1.00005666
35 46	8685143.085	30.82233	1.00005230
35 47	8683293.745	30.82229	1.00004802
35 48	8681444.408	30.82225	1.00004382
35 49	8679595.073	30.82221	1.00003971
35 50	8677745.741	30.82217	1.00003569
35 51	8675896.411	30.82213	1.00003174
35 52	8674047.083	30.82210	1.00002788
35 53	8672197.756	30.82207	1.00002410
35 54	8670348.432	30.82205	1.00002041
35 55	8668499.109	30.82202	1.00001680
35 56	8666649.788	30.82200	1.00001327
35 57	8664800.468	30.82198	1.00000983
35 58	8662951.149	30.82196	1.00000647
35 59	8661101.831	30.82195	1.00000319

Lambert conformal conic projection tables
CALIFORNIA 4

Lat	R (meters)	tab diff.	k
36° 0'	8659252.514	30.82194	1.00000000
36 1	8657403.198	30.82193	0.99999689
36 2	8655553.882	30.82192	0.99999387
36 3	8653704.567	30.82192	0.99999092
36 4	8651855.251	30.82192	0.99998807
36 5	8650005.936	30.82192	0.99998529
36 6	8648156.621	30.82193	0.99998260
36 7	8646307.305	30.82193	0.99997999
36 8	8644457.989	30.82194	0.99997747
36 9	8642608.673	30.82195	0.99997503
36 10	8640759.355	30.82197	0.99997267
36 11	8638910.037	30.82199	0.99997040
36 12	8637060.718	30.82201	0.99996821
36 13	8635211.398	30.82203	0.99996611
36 14	8633362.076	30.82205	0.99996409
36 15	8631512.753	30.82208	0.99996215
36 16	8629663.428	30.82211	0.99996030
36 17	8627814.101	30.82214	0.99995853
36 18	8625964.772	30.82218	0.99995684
36 19	8624115.442	30.82222	0.99995524
36 20	8622266.109	30.82226	0.99995372
36 21	8620416.773	30.82230	0.99995229
36 22	8618567.435	30.82235	0.99995094
36 23	8616718.094	30.82240	0.99994967
36 24	8614868.750	30.82245	0.99994849
36 25	8613019.403	30.82250	0.99994739
36 26	8611170.053	30.82256	0.99994638
36 27	8609320.700	30.82262	0.99994545
36 28	8607471.343	30.82268	0.99994460
36 29	8605621.982	30.82274	0.99994384
36 30	8603772.618	30.82281	0.99994316
36 31	8601923.249	30.82288	0.99994257
36 32	8600073.877	30.82295	0.99994206
36 33	8598224.500	30.82302	0.99994163
36 34	8596375.118	30.82310	0.99994129
36 35	8594525.732	30.82318	0.99994104
36 36	8592676.341	30.82326	0.99994086
36 37	8590826.945	30.82335	0.99994077
36 38	8588977.545	30.82344	0.99994077
36 39	8587128.138	30.82353	0.99994085

Lambert conformal conic projection tables
CALIFORNIA 4

Lat	R (meters)	tab diff.	k
36° 40'	8585278.727	30.82362	0.99994101
36 41	8583429.310	30.82371	0.99994126
36 42	8581579.887	30.82381	0.99994160
36 43	8579730.458	30.82391	0.99994201
36 44	8577881.023	30.82402	0.99994251
36 45	8576031.582	30.82412	0.99994310
36 46	8574182.135	30.82423	0.99994377
36 47	8572332.681	30.82434	0.99994452
36 48	8570483.221	30.82446	0.99994536
36 49	8568633.753	30.82457	0.99994629
36 50	8566784.279	30.82469	0.99994730
36 51	8564934.797	30.82481	0.99994839
36 52	8563085.309	30.82494	0.99994956
36 53	8561235.812	30.82506	0.99995083
36 54	8559386.309	30.82519	0.99995217
36 55	8557536.797	30.82533	0.99995360
36 56	8555687.277	30.82546	0.99995512
36 57	8553837.750	30.82560	0.99995672
36 58	8551988.214	30.82574	0.99995840
36 59	8550138.670	30.82588	0.99996017
37 0	8548289.117	30.82603	0.99996202
37 1	8546439.555	30.82617	0.99996396
37 2	8544589.985	30.82632	0.99996599
37 3	8542740.406	30.82648	0.99996809
37 4	8540890.817	30.82663	0.99997029
37 5	8539041.219	30.82679	0.99997256
37 6	8537191.612	30.82695	0.99997492
37 7	8535341.995	30.82712	0.99997737
37 8	8533492.368	30.82728	0.99997990
37 9	8531642.731	30.82745	0.99998252
37 10	8529793.084	30.82762	0.99998522
37 11	8527943.426	30.82780	0.99998801
37 12	8526093.759	30.82797	0.99999088
37 13	8524244.080	30.82815	0.99999383
37 14	8522394.391	30.82833	0.99999687
37 15	8520544.691	30.82852	1.00000000
37 16	8518694.980	30.82871	1.00000321
37 17	8516845.258	30.82890	1.00000651
37 18	8514995.524	30.82909	1.00000989
37 19	8513145.779	30.82928	1.00001335

Lambert conformal conic projection tables
CALIFORNIA 4

Lat	R (meters)	tab diff.	k
37° 20'	8511296.022	30.82948	1.00001690
37 21	8509446.253	30.82968	1.00002054
37 22	8507596.472	30.82989	1.00002426
37 23	8505746.679	30.83009	1.00002807
37 24	8503896.873	30.83030	1.00003196
37 25	8502047.055	30.83051	1.00003593
37 26	8500197.225	30.83072	1.00004000
37 27	8498347.381	30.83094	1.00004414
37 28	8496497.525	30.83116	1.00004838
37 29	8494647.655	30.83138	1.00005269
37 30	8492797.772	30.83161	1.00005710
37 31	8490947.876	30.83183	1.00006158
37 32	8489097.966	30.83206	1.00006616
37 33	8487248.042	30.83229	1.00007081
37 34	8485398.105	30.83253	1.00007556
37 35	8483548.153	30.83277	1.00008039
37 36	8481698.187	30.83301	1.00008530
37 37	8479848.207	30.83325	1.00009030
37 38	8477998.212	30.83349	1.00009539
37 39	8476148.202	30.83374	1.00010056
37 40	8474298.178	30.83399	1.00010581
37 41	8472448.138	30.83425	1.00011116
37 42	8470598.083	30.83450	1.00011658
37 43	8468748.013	30.83476	1.00012210
37 44	8466897.927	30.83502	1.00012770
37 45	8465047.826	30.83529	1.00013338
37 46	8463197.709	30.83555	1.00013915
37 47	8461347.576	30.83582	1.00014500
37 48	8459497.426	30.83609	1.00015094
37 49	8457647.261	30.83637	1.00015697
37 50	8455797.078	30.83665	1.00016308
37 51	8453946.880	30.83693	1.00016928
37 52	8452096.664	30.83721	1.00017557
37 53	8450246.431	30.83749	1.00018193
37 54	8448396.182	30.83778	1.00018839
37 55	8446545.915	30.83807	1.00019493
37 56	8444695.631	30.83837	1.00020156
37 57	8442845.329	30.83866	1.00020827
37 58	8440995.009	30.83896	1.00021507
37 59	8439144.671	30.83926	1.00022195

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is CALIFORNIA 5

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 33° 30' (latitude of grid origin)
λ_{CM} = 118 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 34 2 (southern standard parallel)
ϕ_n = 35 28 (northern standard parallel)
E_b =2000000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.570011896174 = $\sin(\phi_r)$
K = 13282624.8345 m (mapping radius at the equator)
R_b = 9341756.1389 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_r)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_b$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	34 45 0.00000 118 30 0.00000	9203100.173 m -0 17 6.02141	-0.0049742717 0.9999876282	1954221.280 m 638769.824 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_b)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_b R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	2050000.000 m 640000.000 m	50000.000 m 9201756.139 m	9201891.9815 m 0 18 40.77941	34 45 39.2102 117 27 13.7614

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 5

Lat	R (meters)	tab diff.	k
33° 30'	9341756.139	30.81410	1.00015825
33 31	9339907.293	30.81399	1.00015202
33 32	9338058.454	30.81388	1.00014587
33 33	9336209.621	30.81378	1.00013980
33 34	9334360.794	30.81368	1.00013381
33 35	9332511.973	30.81358	1.00012791
33 36	9330663.158	30.81349	1.00012209
33 37	9328814.349	30.81340	1.00011635
33 38	9326965.546	30.81331	1.00011070
33 39	9325116.747	30.81322	1.00010513
33 40	9323267.954	30.81313	1.00009964
33 41	9321419.166	30.81305	1.00009424
33 42	9319570.383	30.81297	1.00008892
33 43	9317721.605	30.81290	1.00008368
33 44	9315872.831	30.81282	1.00007853
33 45	9314024.062	30.81275	1.00007345
33 46	9312175.297	30.81268	1.00006847
33 47	9310326.536	30.81261	1.00006356
33 48	9308477.779	30.81255	1.00005874
33 49	9306629.026	30.81249	1.00005400
33 50	9304780.277	30.81243	1.00004935
33 51	9302931.531	30.81237	1.00004478
33 52	9301082.788	30.81232	1.00004029
33 53	9299234.049	30.81227	1.00003589
33 54	9297385.313	30.81222	1.00003156
33 55	9295536.580	30.81218	1.00002733
33 56	9293687.849	30.81213	1.00002317
33 57	9291839.121	30.81209	1.00001910
33 58	9289990.396	30.81205	1.00001511
33 59	9288141.673	30.81202	1.00001121
34 0	9286292.951	30.81199	1.00000739
34 1	9284444.232	30.81196	1.00000365
34 2	9282595.515	30.81193	1.00000000
34 3	9280746.799	30.81190	0.99999643
34 4	9278898.085	30.81188	0.99999294
34 5	9277049.372	30.81186	0.99998954
34 6	9275200.661	30.81184	0.99998622
34 7	9273351.950	30.81183	0.99998299
34 8	9271503.240	30.81182	0.99997983
34 9	9269654.531	30.81181	0.99997677

Lambert conformal conic projection tables
CALIFORNIA 5

Lat	R (meters)	tab diff.	k
34° 10'	9267805.823	30.81180	0.99997378
34 11	9265957.115	30.81180	0.99997088
34 12	9264108.407	30.81179	0.99996806
34 13	9262259.700	30.81180	0.99996533
34 14	9260410.992	30.81180	0.99996268
34 15	9258562.284	30.81180	0.99996011
34 16	9256713.576	30.81181	0.99995763
34 17	9254864.867	30.81182	0.99995523
34 18	9253016.157	30.81184	0.99995292
34 19	9251167.447	30.81186	0.99995068
34 20	9249318.736	30.81187	0.99994854
34 21	9247470.023	30.81190	0.99994647
34 22	9245621.309	30.81192	0.99994449
34 23	9243772.594	30.81195	0.99994260
34 24	9241923.877	30.81198	0.99994078
34 25	9240075.159	30.81201	0.99993906
34 26	9238226.438	30.81204	0.99993741
34 27	9236377.715	30.81208	0.99993585
34 28	9234528.991	30.81212	0.99993437
34 29	9232680.263	30.81216	0.99993298
34 30	9230831.533	30.81221	0.99993167
34 31	9228982.801	30.81226	0.99993045
34 32	9227134.066	30.81231	0.99992931
34 33	9225285.327	30.81236	0.99992825
34 34	9223436.585	30.81242	0.99992728
34 35	9221587.841	30.81247	0.99992639
34 36	9219739.092	30.81253	0.99992558
34 37	9217890.340	30.81260	0.99992486
34 38	9216041.584	30.81266	0.99992423
34 39	9214192.824	30.81273	0.99992367
34 40	9212344.060	30.81280	0.99992321
34 41	9210495.292	30.81288	0.99992282
34 42	9208646.519	30.81295	0.99992252
34 43	9206797.742	30.81303	0.99992231
34 44	9204948.960	30.81312	0.99992217
34 45	9203100.173	30.81320	0.99992213
34 46	9201251.381	30.81329	0.99992216
34 47	9199402.584	30.81338	0.99992229
34 48	9197553.781	30.81347	0.99992249
34 49	9195704.973	30.81356	0.99992278

Lambert conformal conic projection tables
CALIFORNIA 5

Lat	R (meters)	tab diff.	k
34° 50'	9193856.160	30.81366	0.99992315
34 51	9192007.340	30.81376	0.99992361
34 52	9190158.514	30.81386	0.99992415
34 53	9188309.682	30.81397	0.99992478
34 54	9186460.844	30.81408	0.99992549
34 55	9184612.000	30.81419	0.99992629
34 56	9182763.149	30.81430	0.99992717
34 57	9180914.291	30.81442	0.99992813
34 58	9179065.426	30.81453	0.99992918
34 59	9177216.554	30.81465	0.99993031
35 0	9175367.674	30.81478	0.99993153
35 1	9173518.788	30.81490	0.99993283
35 2	9171669.893	30.81503	0.99993422
35 3	9169820.991	30.81517	0.99993569
35 4	9167972.081	30.81530	0.99993725
35 5	9166123.163	30.81544	0.99993889
35 6	9164274.237	30.81558	0.99994061
35 7	9162425.303	30.81572	0.99994242
35 8	9160576.360	30.81586	0.99994432
35 9	9158727.408	30.81601	0.99994630
35 10	9156878.448	30.81616	0.99994836
35 11	9155029.478	30.81631	0.99995051
35 12	9153180.499	30.81647	0.99995274
35 13	9151331.511	30.81662	0.99995506
35 14	9149482.514	30.81678	0.99995746
35 15	9147633.507	30.81695	0.99995995
35 16	9145784.490	30.81711	0.99996252
35 17	9143935.463	30.81728	0.99996518
35 18	9142086.426	30.81745	0.99996792
35 19	9140237.379	30.81763	0.99997074
35 20	9138388.322	30.81780	0.99997366
35 21	9136539.253	30.81798	0.99997665
35 22	9134690.175	30.81816	0.99997973
35 23	9132841.085	30.81835	0.99998290
35 24	9130991.984	30.81853	0.99998615
35 25	9129142.872	30.81872	0.99998948
35 26	9127293.749	30.81891	0.99999290
35 27	9125444.614	30.81911	0.99999641
35 28	9123595.467	30.81931	1.00000000
35 29	9121746.309	30.81951	1.00000368

Lambert conformal conic projection tables
CALIFORNIA 5

Lat	R (meters)	tab diff.	k
35° 30'	9119897.139	30.81971	1.00000744
35 31	9118047.956	30.81991	1.00001128
35 32	9116198.761	30.82012	1.00001521
35 33	9114349.554	30.82033	1.00001923
35 34	9112500.334	30.82054	1.00002333
35 35	9110651.102	30.82076	1.00002751
35 36	9108801.856	30.82098	1.00003179
35 37	9106952.597	30.82120	1.00003614
35 38	9105103.325	30.82142	1.00004058
35 39	9103254.040	30.82165	1.00004511
35 40	9101404.741	30.82188	1.00004972
35 41	9099555.428	30.82211	1.00005442
35 42	9097706.101	30.82234	1.00005920
35 43	9095856.761	30.82258	1.00006407
35 44	9094007.406	30.82282	1.00006902
35 45	9092158.037	30.82306	1.00007406
35 46	9090308.653	30.82331	1.00007918
35 47	9088459.254	30.82356	1.00008439
35 48	9086609.841	30.82381	1.00008969
35 49	9084760.413	30.82406	1.00009507
35 50	9082910.969	30.82431	1.00010053
35 51	9081061.510	30.82457	1.00010608
35 52	9079212.036	30.82483	1.00011172
35 53	9077362.546	30.82510	1.00011744
35 54	9075513.040	30.82536	1.00012325
35 55	9073663.518	30.82563	1.00012914
35 56	9071813.981	30.82590	1.00013512
35 57	9069964.426	30.82618	1.00014118
35 58	9068114.856	30.82645	1.00014733
35 59	9066265.269	30.82673	1.00015357
36 0	9064415.665	30.82701	1.00015989
36 1	9062566.044	30.82730	1.00016629
36 2	9060716.406	30.82759	1.00017279
36 3	9058866.751	30.82788	1.00017936
36 4	9057017.078	30.82817	1.00018603
36 5	9055167.388	30.82846	1.00019278
36 6	9053317.680	30.82876	1.00019961
36 7	9051467.955	30.82906	1.00020653
36 8	9049618.211	30.82937	1.00021354
36 9	9047768.449	30.82967	1.00022063

Lambert conformal conic projection tables
CALIFORNIA 5

Lat	R (meters)	tab diff.	k
36° 10'	9045918.669	30.82998	1.00022781
36 11	9044068.870	30.83029	1.00023507
36 12	9042219.052	30.83061	1.00024242
36 13	9040369.216	30.83092	1.00024986
36 14	9038519.361	30.83124	1.00025738
36 15	9036669.486	30.83156	1.00026499
36 16	9034819.592	30.83189	1.00027268
36 17	9032969.679	30.83221	1.00028046
36 18	9031119.746	30.83254	1.00028833
36 19	9029269.794	30.83288	1.00029628
36 20	9027419.821	30.83321	1.00030432

Lambert conformal conic projection with two standard parallels

Plane coordinate projection tables

DATUM: NAD 83

The projection is CALIFORNIA 6

Ellipsoidal constants

$a = 6378137$ m

$f = 1/298.25722210$

Defining constants

φ_b = 32°10' (latitude of grid origin)

λ_{CM} = 116 15 (longitude of origin and Central Meridian, CM)

φ_s = 32 47 (southern standard parallel)

φ_n = 33 53 (northern standard parallel)

$E_\circ$ =2000000.0000 m (easting coordinate of origin)

N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.549517575763 = \sin(\varphi_\circ)$

K = 13602026.7133 m (mapping radius at the equator)

R_b = 9836091.7896 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (φ, λ)

$\gamma = (\lambda_{CM} - \lambda) \sin(\varphi_\circ)$ (γ is the meridional convergence)

$E = R \sin(\gamma) + E_\circ$ (R from table)

$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	33 20 0.00000 116 45 0.00000	9706705.467 m -0 16 29.13164	-0.0047954271 0.9999885019	1953452.201 m 629497.931 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_\circ)/((R_b - (N - N_b))$

$R = (R_b - (N - N_b))/\cos(\gamma)$

$\lambda = \lambda_{CM} - \gamma/\ell$

φ from table using R

Station	E N	E - $E_\circ$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	2050000.000 m 630000.000 m	50000.000 m 9706091.790 m	9706220.5739 m 0 17 42.54395	33 20 15.7397 115 42 46.4059

2

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CALIFORNIA 6

Lat	R (meters)	tab diff.	k
32°10'	9836091.790	30.80758	1.00015978
32 11	9834243.335	30.80748	1.00015397
32 12	9832394.886	30.80738	1.00014823
32 13	9830546.443	30.80729	1.00014258
32 14	9828698.006	30.80720	1.00013701
32 15	9826849.573	30.80712	1.00013152
32 16	9825001.146	30.80703	1.00012612
32 17	9823152.724	30.80695	1.00012080
32 18	9821304.307	30.80687	1.00011556
32 19	9819455.895	30.80680	1.00011041
32 20	9817607.487	30.80673	1.00010534
32 21	9815759.083	30.80665	1.00010036
32 22	9813910.684	30.80659	1.00009545
32 23	9812062.289	30.80652	1.00009063
32 24	9810213.898	30.80646	1.00008590
32 25	9808365.510	30.80640	1.00008124
32 26	9806517.126	30.80634	1.00007667
32 27	9804668.746	30.80628	1.00007219
32 28	9802820.369	30.80623	1.00006779
32 29	9800971.995	30.80618	1.00006347
32 30	9799123.624	30.80613	1.00005923
32 31	9797275.256	30.80609	1.00005508
32 32	9795426.891	30.80605	1.00005101
32 33	9793578.528	30.80601	1.00004702
32 34	9791730.168	30.80597	1.00004312
32 35	9789881.809	30.80594	1.00003930
32 36	9788033.453	30.80590	1.00003557
32 37	9786185.099	30.80587	1.00003192
32 38	9784336.747	30.80585	1.00002835
32 39	9782488.396	30.80582	1.00002486
32 40	9780640.047	30.80580	1.00002146
32 41	9778791.698	30.80578	1.00001815
32 42	9776943.351	30.80577	1.00001491
32 43	9775095.006	30.80575	1.00001176
32 44	9773246.660	30.80574	1.00000870
32 45	9771398.316	30.80573	1.00000571
32 46	9769549.972	30.80573	1.00000282
32 47	9767701.628	30.80572	1.00000000
32 48	9765853.285	30.80572	0.99999727
32 49	9764004.942	30.80572	0.99999462

Lambert conformal conic projection tables
CALIFORNIA 6

Lat	R (meters)	tab diff.	k
32°50'	9762156.598	30.80573	0.99999206
32 51	9760308.254	30.80574	0.99998958
32 52	9758459.910	30.80575	0.99998718
32 53	9756611.565	30.80576	0.99998487
32 54	9754763.220	30.80577	0.99998264
32 55	9752914.874	30.80579	0.99998049
32 56	9751066.526	30.80581	0.99997843
32 57	9749218.178	30.80583	0.99997645
32 58	9747369.828	30.80586	0.99997456
32 59	9745521.476	30.80589	0.99997275
33 0	9743673.123	30.80592	0.99997102
33 1	9741824.768	30.80595	0.99996938
33 2	9739976.411	30.80599	0.99996782
33 3	9738128.052	30.80602	0.99996635
33 4	9736279.690	30.80606	0.99996496
33 5	9734431.327	30.80611	0.99996365
33 6	9732582.960	30.80615	0.99996243
33 7	9730734.591	30.80620	0.99996129
33 8	9728886.219	30.80625	0.99996024
33 9	9727037.843	30.80631	0.99995927
33 10	9725189.465	30.80636	0.99995838
33 11	9723341.083	30.80642	0.99995758
33 12	9721492.697	30.80649	0.99995686
33 13	9719644.308	30.80655	0.99995623
33 14	9717795.915	30.80662	0.99995568
33 15	9715947.518	30.80669	0.99995521
33 16	9714099.117	30.80676	0.99995483
33 17	9712250.711	30.80683	0.99995453
33 18	9710402.301	30.80691	0.99995432
33 19	9708553.887	30.80699	0.99995419
33 20	9706705.467	30.80707	0.99995414
33 21	9704857.043	30.80716	0.99995418
33 22	9703008.613	30.80725	0.99995431
33 23	9701160.178	30.80734	0.99995451
33 24	9699311.738	30.80743	0.99995480
33 25	9697463.292	30.80753	0.99995518
33 26	9695614.841	30.80763	0.99995564
33 27	9693766.383	30.80773	0.99995619
33 28	9691917.919	30.80783	0.99995682

33 29	9690069.450	30.80794	0.99995753

Lambert conformal conic projection tables
CALIFORNIA 6

Lat	R (meters)	tab diff.	k
33°30'	9688220.973	30.80805	0.99995833
33 31	9686372.491	30.80816	0.99995921
33 32	9684524.001	30.80827	0.99996018
33 33	9682675.505	30.80839	0.99996123
33 34	9680827.002	30.80851	0.99996236
33 35	9678978.491	30.80863	0.99996358
33 36	9677129.974	30.80875	0.99996489
33 37	9675281.448	30.80888	0.99996627
33 38	9673432.916	30.80901	0.99996775
33 39	9671584.375	30.80914	0.99996931
33 40	9669735.826	30.80928	0.99997095
33 41	9667887.270	30.80942	0.99997268
33 42	9666038.705	30.80956	0.99997449
33 43	9664190.131	30.80970	0.99997638
33 44	9662341.549	30.80985	0.99997836
33 45	9660492.959	30.80999	0.99998043
33 46	9658644.359	30.81014	0.99998258
33 47	9656795.750	30.81030	0.99998481
33 48	9654947.132	30.81045	0.99998713
33 49	9653098.505	30.81061	0.99998954
33 50	9651249.868	30.81077	0.99999203
33 51	9649401.222	30.81094	0.99999460
33 52	9647552.566	30.81110	0.99999726
33 53	9645703.899	30.81127	1.00000000
33 54	9643855.223	30.81145	1.00000283
33 55	9642006.536	30.81162	1.00000574
33 56	9640157.839	30.81180	1.00000874
33 57	9638309.131	30.81198	1.00001182
33 58	9636460.412	30.81216	1.00001499
33 59	9634611.683	30.81235	1.00001824
34 0	9632762.942	30.81253	1.00002158
34 1	9630914.190	30.81272	1.00002500
34 2	9629065.427	30.81292	1.00002850
34 3	9627216.652	30.81311	1.00003210
34 4	9625367.865	30.81331	1.00003577
34 5	9623519.066	30.81351	1.00003953
34 6	9621670.256	30.81371	1.00004338
34 7	9619821.433	30.81392	1.00004731

34 8	9617972.598	30.81413	1.00005133
34 9	9616123.750	30.81434	1.00005543

Lambert conformal conic projection tables
CALIFORNIA 6

Lat	R (meters)	tab diff.	k
34°10'	9614274.889	30.81456	1.00005962
34 11	9612426.016	30.81477	1.00006389
34 12	9610577.130	30.81499	1.00006825
34 13	9608728.230	30.81521	1.00007269
34 14	9606879.317	30.81544	1.00007721
34 15	9605030.391	30.81567	1.00008183
34 16	9603181.451	30.81590	1.00008652
34 17	9601332.497	30.81613	1.00009131
34 18	9599483.530	30.81636	1.00009618
34 19	9597634.548	30.81660	1.00010113
34 20	9595785.552	30.81684	1.00010617
34 21	9593936.541	30.81709	1.00011129
34 22	9592087.516	30.81733	1.00011650
34 23	9590238.476	30.81758	1.00012179
34 24	9588389.421	30.81783	1.00012717
34 25	9586540.351	30.81809	1.00013264
34 26	9584691.266	30.81834	1.00013819
34 27	9582842.166	30.81860	1.00014383
34 28	9580993.050	30.81886	1.00014955
34 29	9579143.918	30.81913	1.00015535
34 30	9577294.770	30.81939	1.00016125

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is COLORADO CENTRAL

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 37° 50' (latitude of grid origin)
λ_{CM} = 105 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 38 27 (southern standard parallel)
ϕ_n = 39 45 (northern standard parallel)
E_o = 914401.8289 m (easting coordinate of origin)
N_b = 304800.6096 m (northing coordinate of origin)

Derived constants

$\ell = 0.630689555224 = \sin(\phi_o)$
K = 12518269.8410 m (mapping radius at the equator)
R_b = 7998699.7391 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	39 6 0.00000 106 0 0.00000	7858090.608 m -0 18 55.24120	-0.0055037769 0.9999848541	871152.652 m 445528.758 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	$E - E_o$ $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	964401.829 m 454800.610 m	50000.000 m 7848699.739 m	7848858.9996 m 0 21 53.98845	39 10 59.3736 104 55 16.5844

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
COLORADO CENTRAL

Lat	R (meters)	tab diff.	k
37° 50'	7998699.739	30.83692	1.00017825
37 51	7996849.524	30.83682	1.00017194
37 52	7994999.315	30.83671	1.00016571
37 53	7993149.112	30.83661	1.00015956
37 54	7991298.916	30.83651	1.00015350
37 55	7989448.725	30.83642	1.00014751
37 56	7987598.540	30.83632	1.00014162
37 57	7985748.360	30.83623	1.00013580
37 58	7983898.186	30.83615	1.00013007
37 59	7982048.017	30.83606	1.00012442
38 0	7980197.854	30.83598	1.00011885
38 1	7978347.695	30.83590	1.00011337
38 2	7976497.541	30.83582	1.00010797
38 3	7974647.392	30.83575	1.00010265
38 4	7972797.247	30.83567	1.00009742
38 5	7970947.107	30.83560	1.00009226
38 6	7969096.971	30.83554	1.00008720
38 7	7967246.839	30.83547	1.00008221
38 8	7965396.710	30.83541	1.00007731
38 9	7963546.586	30.83535	1.00007249
38 10	7961696.465	30.83529	1.00006776
38 11	7959846.347	30.83524	1.00006310
38 12	7957996.233	30.83519	1.00005854
38 13	7956146.122	30.83514	1.00005405
38 14	7954296.014	30.83509	1.00004965
38 15	7952445.908	30.83505	1.00004533
38 16	7950595.805	30.83500	1.00004109
38 17	7948745.705	30.83497	1.00003694
38 18	7946895.607	30.83493	1.00003287
38 19	7945045.511	30.83490	1.00002888
38 20	7943195.418	30.83486	1.00002498
38 21	7941345.326	30.83484	1.00002116
38 22	7939495.236	30.83481	1.00001743
38 23	7937645.147	30.83479	1.00001377
38 24	7935795.060	30.83477	1.00001021
38 25	7933944.974	30.83475	1.00000672
38 26	7932094.889	30.83473	1.00000332
38 27	7930244.805	30.83472	1.0000000
38 28	7928394.722	30.83471	0.99999677
38 29	7926544.640	30.83470	0.99999361

Lambert conformal conic projection tables
COLORADO CENTRAL

Lat	R (meters)	tab diff.	k
38° 30'	7924694.558	30.83469	0.99999055
38 31	7922844.476	30.83469	0.99998756
38 32	7920994.394	30.83469	0.99998466
38 33	7919144.313	30.83469	0.99998184
38 34	7917294.231	30.83470	0.99997911
38 35	7915444.149	30.83471	0.99997646
38 36	7913594.067	30.83472	0.99997389
38 37	7911743.984	30.83473	0.99997141
38 38	7909893.900	30.83475	0.99996901
38 39	7908043.815	30.83476	0.99996670
38 40	7906193.729	30.83478	0.99996447
38 41	7904343.642	30.83481	0.99996232
38 42	7902493.554	30.83483	0.99996026
38 43	7900643.464	30.83486	0.99995828
38 44	7898793.372	30.83489	0.99995638
38 45	7896943.279	30.83493	0.99995457
38 46	7895093.183	30.83496	0.99995284
38 47	7893243.085	30.83500	0.99995119
38 48	7891392.985	30.83504	0.99994963
38 49	7889542.883	30.83509	0.99994816
38 50	7887692.778	30.83513	0.99994676
38 51	7885842.670	30.83518	0.99994546
38 52	7883992.559	30.83523	0.99994423
38 53	7882142.445	30.83529	0.99994309
38 54	7880292.327	30.83535	0.99994203
38 55	7878442.207	30.83540	0.99994106
38 56	7876592.082	30.83547	0.99994017
38 57	7874741.954	30.83553	0.99993937
38 58	7872891.822	30.83560	0.99993865
38 59	7871041.686	30.83567	0.99993801
39 0	7869191.546	30.83574	0.99993746
39 1	7867341.402	30.83582	0.99993699
39 2	7865491.253	30.83589	0.99993660
39 3	7863641.099	30.83598	0.99993630
39 4	7861790.941	30.83606	0.99993609
39 5	7859940.777	30.83614	0.99993596
39 6	7858090.608	30.83623	0.99993591
39 7	7856240.435	30.83632	0.99993595
39 8	7854390.255	30.83642	0.99993607
39 9	7852540.070	30.83651	0.99993627

Lambert conformal conic projection tables
COLORADO CENTRAL

Lat	R (meters)	tab diff.	k
39° 10'	7850689.879	30.83661	0.99993656
39 11	7848839.683	30.83671	0.99993694
39 12	7846989.480	30.83682	0.99993740
39 13	7845139.271	30.83692	0.99993794
39 14	7843289.056	30.83703	0.99993857
39 15	7841438.834	30.83714	0.99993928
39 16	7839588.605	30.83726	0.99994008
39 17	7837738.370	30.83738	0.99994096
39 18	7835888.127	30.83749	0.99994192
39 19	7834037.877	30.83762	0.99994297
39 20	7832187.620	30.83774	0.99994411
39 21	7830337.356	30.83787	0.99994532
39 22	7828487.084	30.83800	0.99994663
39 23	7826636.804	30.83813	0.99994802
39 24	7824786.516	30.83827	0.99994949
39 25	7822936.220	30.83841	0.99995105
39 26	7821085.916	30.83855	0.99995269
39 27	7819235.603	30.83869	0.99995441
39 28	7817385.281	30.83883	0.99995623
39 29	7815534.951	30.83898	0.99995812
39 30	7813684.612	30.83913	0.99996010
39 31	7811834.264	30.83929	0.99996217
39 32	7809983.907	30.83944	0.99996432
39 33	7808133.540	30.83960	0.99996655
39 34	7806283.164	30.83976	0.99996887
39 35	7804432.778	30.83993	0.99997128
39 36	7802582.382	30.84010	0.99997377
39 37	7800731.977	30.84027	0.99997634
39 38	7798881.561	30.84044	0.99997900
39 39	7797031.135	30.84061	0.99998175
39 40	7795180.698	30.84079	0.99998458
39 41	7793330.250	30.84097	0.99998749
39 42	7791479.792	30.84115	0.99999049
39 43	7789629.323	30.84134	0.99999358
39 44	7787778.843	30.84153	0.99999675
39 45	7785928.351	30.84172	1.00000000
39 46	7784077.848	30.84191	1.00000334
39 47	7782227.334	30.84210	1.00000676
39 48	7780376.808	30.84230	1.00001027
39 49	7778526.269	30.84250	1.00001387

Lambert conformal conic projection tables
COLORADO CENTRAL

Lat	R (meters)	tab diff.	k
39° 50'	7776675.719	30.84271	1.00001755
39 51	7774825.157	30.84291	1.00002132
39 52	7772974.582	30.84312	1.00002517
39 53	7771123.994	30.84333	1.00002910
39 54	7769273.394	30.84355	1.00003312
39 55	7767422.781	30.84377	1.00003723
39 56	7765572.156	30.84399	1.00004142
39 57	7763721.516	30.84421	1.00004570
39 58	7761870.864	30.84443	1.00005006
39 59	7760020.198	30.84466	1.00005451
40 0	7758169.518	30.84489	1.00005904
40 1	7756318.825	30.84512	1.00006366
40 2	7754468.118	30.84536	1.00006837
40 3	7752617.396	30.84560	1.00007316
40 4	7750766.660	30.84584	1.00007803
40 5	7748915.910	30.84608	1.00008299
40 6	7747065.145	30.84633	1.00008804
40 7	7745214.366	30.84658	1.00009317
40 8	7743363.571	30.84683	1.00009839
40 9	7741512.762	30.84708	1.00010369
40 10	7739661.937	30.84734	1.00010908
40 11	7737811.097	30.84760	1.00011455
40 12	7735960.241	30.84786	1.00012012
40 13	7734109.369	30.84812	1.00012576
40 14	7732258.482	30.84839	1.00013149
40 15	7730407.579	30.84866	1.00013731
40 16	7728556.659	30.84893	1.00014321
40 17	7726705.723	30.84921	1.00014920
40 18	7724854.771	30.84949	1.00015528
40 19	7723003.802	30.84977	1.00016144
40 20	7721152.816	30.85005	1.00016768

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is COLORADO NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 39° 20' (latitude of grid origin)
λ_{CM} = 105 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 39 43 (southern standard parallel)
ϕ_n = 40 47 (northern standard parallel)
E. = 914401.8289 m (easting coordinate of origin)
N_b = 304800.6096 m (northing coordinate of origin)

Derived constants

ℓ = 0.646133456811 = $\sin(\phi.)$
K = 12361909.8309 m (mapping radius at the equator)
R_b = 7646051.6244 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	40 15 0.00000 106 0 0.00000	7544273.613 m -0 19 23.04022	-0.0056385482 0.9999841033	871863.078 m 406698.550 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	964401.829 m 414800.610 m	50000.000 m 7536051.624 m	7536217.4920 m 0 22 48.50031	40 19 21.1964 104 54 42.0160

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
COLORADO NORTH

Lat	R (meters)	tab diff.	k
39° 20'	7646051.624	30.84197	1.00008395
39 21	7644201.107	30.84191	1.00007939
39 22	7642350.592	30.84187	1.00007490
39 23	7640500.080	30.84182	1.00007050
39 24	7638649.570	30.84178	1.00006618
39 25	7636799.064	30.84174	1.00006195
39 26	7634948.560	30.84170	1.00005780
39 27	7633098.058	30.84166	1.00005373
39 28	7631247.558	30.84163	1.00004975
39 29	7629397.060	30.84160	1.00004585
39 30	7627546.564	30.84157	1.00004203
39 31	7625696.070	30.84155	1.00003830
39 32	7623845.577	30.84152	1.00003465
39 33	7621995.086	30.84150	1.00003108
39 34	7620144.596	30.84149	1.00002760
39 35	7618294.106	30.84147	1.00002420
39 36	7616443.618	30.84146	1.00002088
39 37	7614593.130	30.84145	1.00001765
39 38	7612742.644	30.84144	1.00001450
39 39	7610892.157	30.84144	1.00001143
39 40	7609041.671	30.84144	1.00000845
39 41	7607191.185	30.84144	1.00000555
39 42	7605340.698	30.84144	1.00000273
39 43	7603490.212	30.84145	1.0000000
39 44	7601639.725	30.84145	0.99999735
39 45	7599789.238	30.84147	0.99999479
39 46	7597938.750	30.84148	0.99999231
39 47	7596088.261	30.84150	0.99998991
39 48	7594237.772	30.84151	0.99998760
39 49	7592387.281	30.84154	0.99998537
39 50	7590536.789	30.84156	0.99998322
39 51	7588686.295	30.84159	0.99998116
39 52	7586835.800	30.84161	0.99997918
39 53	7584985.303	30.84165	0.99997728
39 54	7583134.804	30.84168	0.99997547
39 55	7581284.303	30.84172	0.99997375
39 56	7579433.800	30.84176	0.99997210
39 57	7577583.295	30.84180	0.99997054
39 58	7575732.787	30.84184	0.99996907
39 59	7573882.276	30.84189	0.99996768

Lambert conformal conic projection tables
COLORADO NORTH

Lat	R (meters)	tab diff.	k
40° 0'	7572031.763	30.84194	0.99996637
40 1	7570181.246	30.84199	0.99996515
40 2	7568330.727	30.84205	0.99996401
40 3	7566480.204	30.84211	0.99996295
40 4	7564629.677	30.84217	0.99996198
40 5	7562779.147	30.84223	0.99996109
40 6	7560928.613	30.84230	0.99996029
40 7	7559078.076	30.84236	0.99995957
40 8	7557227.534	30.84243	0.99995893
40 9	7555376.988	30.84251	0.99995838
40 10	7553526.437	30.84258	0.99995792
40 11	7551675.882	30.84266	0.99995753
40 12	7549825.322	30.84274	0.99995724
40 13	7547974.758	30.84283	0.99995702
40 14	7546124.188	30.84291	0.99995689
40 15	7544273.613	30.84300	0.99995685
40 16	7542423.033	30.84309	0.99995688
40 17	7540572.447	30.84319	0.99995701
40 18	7538721.856	30.84329	0.99995721
40 19	7536871.259	30.84339	0.99995751
40 20	7535020.656	30.84349	0.99995788
40 21	7533170.047	30.84359	0.99995834
40 22	7531319.431	30.84370	0.99995889
40 23	7529468.809	30.84381	0.99995952
40 24	7527618.181	30.84392	0.99996023
40 25	7525767.545	30.84404	0.99996103
40 26	7523916.903	30.84415	0.99996191
40 27	7522066.254	30.84427	0.99996288
40 28	7520215.597	30.84440	0.99996393
40 29	7518364.934	30.84452	0.99996506
40 30	7516514.262	30.84465	0.99996629
40 31	7514663.583	30.84478	0.99996759
40 32	7512812.896	30.84492	0.99996898
40 33	7510962.201	30.84505	0.99997046
40 34	7509111.498	30.84519	0.99997201
40 35	7507260.787	30.84533	0.99997366
40 36	7505410.067	30.84548	0.99997539
40 37	7503559.338	30.84562	0.99997720
40 38	7501708.601	30.84577	0.99997910
40 39	7499857.855	30.84592	0.99998108

Lambert conformal conic projection tables
COLORADO NORTH

Lat	R (meters)	tab diff.	k
40° 40'	7498007.099	30.84608	0.99998315
40 41	7496156.335	30.84623	0.99998530
40 42	7494305.561	30.84639	0.99998754
40 43	7492454.777	30.84656	0.99998986
40 44	7490603.984	30.84672	0.99999227
40 45	7488753.180	30.84689	0.99999476
40 46	7486902.367	30.84706	0.99999734
40 47	7485051.543	30.84723	1.0000000
40 48	7483200.709	30.84741	1.00000275
40 49	7481349.865	30.84759	1.00000558
40 50	7479499.010	30.84777	1.00000850
40 51	7477648.144	30.84795	1.00001150
40 52	7475797.267	30.84814	1.00001459
40 53	7473946.379	30.84832	1.00001776
40 54	7472095.479	30.84852	1.00002101
40 55	7470244.569	30.84871	1.00002436
40 56	7468393.646	30.84891	1.00002778
40 57	7466542.712	30.84910	1.00003130
40 58	7464691.765	30.84931	1.00003490
40 59	7462840.807	30.84951	1.00003858
41 0	7460989.836	30.84972	1.00004235
41 1	7459138.853	30.84993	1.00004620
41 2	7457287.858	30.85014	1.00005014
41 3	7455436.849	30.85036	1.00005416
41 4	7453585.828	30.85057	1.00005827
41 5	7451734.793	30.85079	1.00006247
41 6	7449883.746	30.85102	1.00006675
41 7	7448032.685	30.85124	1.00007112
41 8	7446181.610	30.85147	1.00007557
41 9	7444330.522	30.85170	1.00008010
41 10	7442479.420	30.85193	1.00008473
41 11	7440628.304	30.85217	1.00008943
41 12	7438777.174	30.85241	1.00009423
41 13	7436926.029	30.85265	1.00009911
41 14	7435074.870	30.85289	1.00010407
41 15	7433223.697	30.85314	1.00010912
41 16	7431372.508	30.85339	1.00011426
41 17	7429521.305	30.85364	1.00011948
41 18	7427670.086	30.85390	1.00012479
41 19	7425818.853	30.85415	1.00013018

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is COLORADO SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 36° 40' (latitude of grid origin)
λ_{CM} = 105 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 37 14 (southern standard parallel)
ϕ_n = 38 26 (northern standard parallel)
E_o = 914401.8289 m (easting coordinate of origin)
N_b = 304800.6096 m (northing coordinate of origin)

Derived constants

$\ell = 0.613378042371 = \sin(\phi_o)$
K = 12711335.3256 m (mapping radius at the equator)
R_b = 8352015.4059 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	37 50 0.00000 106 0 0.00000	8222534.181 m -0 18 24.08048	-0.0053527076 0.9999856742	870389.007 m 434399.630 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	964401.829 m 434800.610 m	50000.000 m 8222015.406 m	8222167.4354 m 0 20 54.32910	37 50 11.8958 104 55 55.0473

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
COLORADO SOUTH

Lat	R (meters)	tab diff.	k
36° 40'	8352015.406	30.83000	1.00015106
36 41	8350165.606	30.82991	1.00014524
36 42	8348315.811	30.82982	1.00013951
36 43	8346466.022	30.82973	1.00013386
36 44	8344616.238	30.82965	1.00012830
36 45	8342766.459	30.82957	1.00012281
36 46	8340916.685	30.82949	1.00011741
36 47	8339066.916	30.82941	1.00011209
36 48	8337217.151	30.82934	1.00010686
36 49	8335367.390	30.82927	1.00010171
36 50	8333517.634	30.82920	1.00009664
36 51	8331667.882	30.82914	1.00009166
36 52	8329818.134	30.82907	1.00008675
36 53	8327968.390	30.82901	1.00008193
36 54	8326118.649	30.82895	1.00007720
36 55	8324268.912	30.82890	1.00007255
36 56	8322419.178	30.82885	1.00006798
36 57	8320569.447	30.82880	1.00006349
36 58	8318719.719	30.82875	1.00005909
36 59	8316869.995	30.82870	1.00005477
37 0	8315020.272	30.82866	1.00005054
37 1	8313170.553	30.82862	1.00004639
37 2	8311320.836	30.82858	1.00004232
37 3	8309471.121	30.82855	1.00003833
37 4	8307621.408	30.82852	1.00003443
37 5	8305771.697	30.82849	1.00003061
37 6	8303921.988	30.82846	1.00002688
37 7	8302072.280	30.82843	1.00002322
37 8	8300222.574	30.82841	1.00001966
37 9	8298372.869	30.82839	1.00001617
37 10	8296523.166	30.82838	1.00001277
37 11	8294673.463	30.82836	1.00000945
37 12	8292823.761	30.82835	1.00000622
37 13	8290974.060	30.82834	1.00000307
37 14	8289124.360	30.82834	1.00000000
37 15	8287274.659	30.82833	0.99999702
37 16	8285424.959	30.82833	0.99999412
37 17	8283575.260	30.82833	0.99999130
37 18	8281725.560	30.82834	0.99998857
37 19	8279875.859	30.82834	0.99998592

Lambert conformal conic projection tables
COLORADO SOUTH

Lat	R (meters)	tab diff.	k
37° 20'	8278026.159	30.82835	0.99998335
37 21	8276176.458	30.82836	0.99998087
37 22	8274326.756	30.82838	0.99997847
37 23	8272477.053	30.82840	0.99997616
37 24	8270627.349	30.82842	0.99997393
37 25	8268777.644	30.82844	0.99997178
37 26	8266927.938	30.82846	0.99996972
37 27	8265078.230	30.82849	0.99996774
37 28	8263228.521	30.82852	0.99996585
37 29	8261378.809	30.82855	0.99996404
37 30	8259529.096	30.82859	0.99996231
37 31	8257679.381	30.82863	0.99996066
37 32	8255829.663	30.82867	0.99995910
37 33	8253979.943	30.82871	0.99995763
37 34	8252130.221	30.82876	0.99995624
37 35	8250280.495	30.82880	0.99995493
37 36	8248430.767	30.82885	0.99995371
37 37	8246581.036	30.82891	0.99995257
37 38	8244731.301	30.82896	0.99995151
37 39	8242881.564	30.82902	0.99995054
37 40	8241031.822	30.82908	0.99994965
37 41	8239182.077	30.82915	0.99994885
37 42	8237332.328	30.82921	0.99994813
37 43	8235482.576	30.82928	0.99994749
37 44	8233632.819	30.82935	0.99994694
37 45	8231783.057	30.82943	0.99994647
37 46	8229933.291	30.82951	0.99994609
37 47	8228083.521	30.82959	0.99994579
37 48	8226233.746	30.82967	0.99994558
37 49	8224383.966	30.82975	0.99994544
37 50	8222534.181	30.82984	0.99994540
37 51	8220684.390	30.82993	0.99994544
37 52	8218834.595	30.83002	0.99994556
37 53	8216984.793	30.83012	0.99994577
37 54	8215134.986	30.83022	0.99994606
37 55	8213285.173	30.83032	0.99994643
37 56	8211435.354	30.83042	0.99994689
37 57	8209585.529	30.83052	0.99994743
37 58	8207735.698	30.83063	0.99994806
37 59	8205885.860	30.83074	0.99994878

Lambert conformal conic projection tables
COLORADO SOUTH

Lat	R (meters)	tab diff.	k
38° 0'	8204036.015	30.83086	0.99994957
38 1	8202186.164	30.83097	0.99995045
38 2	8200336.305	30.83109	0.99995142
38 3	8198486.440	30.83121	0.99995247
38 4	8196636.567	30.83134	0.99995361
38 5	8194786.687	30.83146	0.99995483
38 6	8192936.799	30.83159	0.99995613
38 7	8191086.903	30.83172	0.99995752
38 8	8189237.000	30.83186	0.99995899
38 9	8187387.088	30.83200	0.99996055
38 10	8185537.169	30.83214	0.99996219
38 11	8183687.240	30.83228	0.99996392
38 12	8181837.304	30.83242	0.99996573
38 13	8179987.358	30.83257	0.99996763
38 14	8178137.404	30.83272	0.99996961
38 15	8176287.441	30.83287	0.99997168
38 16	8174437.468	30.83303	0.99997383
38 17	8172587.487	30.83319	0.99997606
38 18	8170737.495	30.83335	0.99997838
38 19	8168887.495	30.83351	0.99998079
38 20	8167037.484	30.83368	0.99998328
38 21	8165187.463	30.83385	0.99998585
38 22	8163337.433	30.83402	0.99998851
38 23	8161487.392	30.83419	0.99999126
38 24	8159637.340	30.83437	0.99999409
38 25	8157787.278	30.83455	0.99999700
38 26	8155937.205	30.83473	1.00000000
38 27	8154087.122	30.83491	1.00000308
38 28	8152237.027	30.83510	1.00000625
38 29	8150386.921	30.83529	1.00000951
38 30	8148536.804	30.83548	1.00001285
38 31	8146686.675	30.83568	1.00001627
38 32	8144836.534	30.83587	1.00001978
38 33	8142986.382	30.83607	1.00002338
38 34	8141136.217	30.83628	1.00002706
38 35	8139286.041	30.83648	1.00003082
38 36	8137435.852	30.83669	1.00003467
38 37	8135585.650	30.83690	1.00003861
38 38	8133735.436	30.83711	1.00004263
38 39	8131885.209	30.83733	1.00004673

Lambert conformal conic projection tables
COLORADO SOUTH

Lat	R (meters)	tab diff.	k
38° 40'	8130034.969	30.83755	1.00005093
38 41	8128184.716	30.83777	1.00005520
38 42	8126334.450	30.83799	1.00005956
38 43	8124484.171	30.83822	1.00006401
38 44	8122633.877	30.83845	1.00006854
38 45	8120783.570	30.83868	1.00007316
38 46	8118933.249	30.83892	1.00007786
38 47	8117082.914	30.83915	1.00008265
38 48	8115232.565	30.83939	1.00008753
38 49	8113382.202	30.83964	1.00009249
38 50	8111531.823	30.83988	1.00009753
38 51	8109681.430	30.84013	1.00010266
38 52	8107831.023	30.84038	1.00010788
38 53	8105980.600	30.84063	1.00011318
38 54	8104130.162	30.84089	1.00011857
38 55	8102279.709	30.84115	1.00012404
38 56	8100429.240	30.84141	1.00012960
38 57	8098578.755	30.84167	1.00013524
38 58	8096728.255	30.84194	1.00014097
38 59	8094877.739	30.84221	1.00014679
39 0	8093027.206	30.84248	1.00015269

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is CONNECTICUT

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 40° 50' (latitude of grid origin)
λ_{CM} = 72 45 (longitude of origin and Central Meridian, CM)
ϕ_s = 41 12 (southern standard parallel)
ϕ_n = 41 52 (northern standard parallel)
E_o = 304800.6096 m (easting coordinate of origin)
N_b = 152400.3048 m (northing coordinate of origin)

Derived constants

$\ell = 0.663059457533 = \sin(\phi_o)$
K = 12206545.8602 m (mapping radius at the equator)
R_b = 7288924.5189 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 32 0.00000 73 15 0.00000	7211183.687 m -0 19 53.50702	-0.0057862530 0.9999832595	263074.876 m 230261.855 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	354800.610 m 232400.305 m	50000.000 m 7208924.519 m	7209097.9130 m 0 23 50.59827	41 33 7.6086 72 9 2.4284

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
CONNECTICUT

Lat	R (meters)	tab diff.	k
40° 50'	7288924.519	30.84917	1.00005729
40 51	7287073.569	30.84915	1.00005380
40 52	7285222.619	30.84914	1.00005041
40 53	7283371.671	30.84913	1.00004709
40 54	7281520.723	30.84912	1.00004386
40 55	7279669.776	30.84911	1.00004071
40 56	7277818.829	30.84911	1.00003765
40 57	7275967.883	30.84911	1.00003467
40 58	7274116.936	30.84911	1.00003177
40 59	7272265.989	30.84911	1.00002896
41 0	7270415.043	30.84912	1.00002623
41 1	7268564.095	30.84913	1.00002358
41 2	7266713.148	30.84914	1.00002102
41 3	7264862.199	30.84916	1.00001854
41 4	7263011.250	30.84917	1.00001615
41 5	7261160.299	30.84919	1.00001383
41 6	7259309.348	30.84921	1.00001161
41 7	7257458.395	30.84924	1.00000946
41 8	7255607.441	30.84927	1.00000740
41 9	7253756.485	30.84930	1.00000543
41 10	7251905.527	30.84933	1.00000353
41 11	7250054.567	30.84936	1.00000172
41 12	7248203.605	30.84940	1.0000000
41 13	7246352.641	30.84944	0.99999836
41 14	7244501.675	30.84948	0.99999680
41 15	7242650.706	30.84953	0.99999533
41 16	7240799.734	30.84958	0.99999394
41 17	7238948.759	30.84963	0.99999263
41 18	7237097.781	30.84968	0.99999141
41 19	7235246.801	30.84974	0.99999027
41 20	7233395.816	30.84980	0.99998922
41 21	7231544.829	30.84986	0.99998825
41 22	7229693.837	30.84992	0.99998737
41 23	7227842.842	30.84999	0.99998657
41 24	7225991.843	30.85006	0.99998585
41 25	7224140.839	30.85013	0.99998521
41 26	7222289.832	30.85020	0.99998467
41 27	7220438.820	30.85028	0.99998420
41 28	7218587.803	30.85036	0.99998382
41 29	7216736.781	30.85044	0.99998352

Lambert conformal conic projection tables
CONNECTICUT

Lat	R (meters)	tab diff.	k
41° 30'	7214885.755	30.85052	0.99998331
41 31	7213034.724	30.85061	0.99998318
41 32	7211183.687	30.85070	0.99998314
41 33	7209332.645	30.85079	0.99998318
41 34	7207481.597	30.85089	0.99998331
41 35	7205630.544	30.85098	0.99998352
41 36	7203779.485	30.85109	0.99998381
41 37	7201928.420	30.85119	0.99998419
41 38	7200077.349	30.85129	0.99998465
41 39	7198226.271	30.85140	0.99998520
41 40	7196375.187	30.85151	0.99998583
41 41	7194524.096	30.85162	0.99998654
41 42	7192672.999	30.85174	0.99998734
41 43	7190821.895	30.85186	0.99998823
41 44	7188970.783	30.85198	0.99998920
41 45	7187119.664	30.85210	0.99999025
41 46	7185268.538	30.85223	0.99999139
41 47	7183417.404	30.85236	0.99999261
41 48	7181566.263	30.85249	0.99999392
41 49	7179715.113	30.85262	0.99999531
41 50	7177863.956	30.85276	0.99999679
41 51	7176012.790	30.85290	0.99999835
41 52	7174161.616	30.85304	1.0000000
41 53	7172310.434	30.85319	1.00000173
41 54	7170459.242	30.85333	1.00000355
41 55	7168608.042	30.85348	1.00000545
41 56	7166756.833	30.85364	1.00000743
41 57	7164905.615	30.85379	1.00000950
41 58	7163054.388	30.85395	1.00001166
41 59	7161203.151	30.85411	1.00001390
42 0	7159351.904	30.85427	1.00001623
42 1	7157500.648	30.85444	1.00001864
42 2	7155649.381	30.85461	1.00002113
42 3	7153798.105	30.85478	1.00002371
42 4	7151946.818	30.85495	1.00002638
42 5	7150095.521	30.85513	1.00002913
42 6	7148244.214	30.85531	1.00003196
42 7	7146392.896	30.85549	1.00003488
42 8	7144541.566	30.85567	1.00003789
42 9	7142690.226	30.85586	1.00004098

Lambert conformal conic projection tables
CONNECTICUT

Lat	R (meters)	tab diff.	k
42° 10'	7140838.875	30.85605	1.00004415
42 11	7138987.512	30.85624	1.00004741
42 12	7137136.138	30.85643	1.00005076
42 13	7135284.752	30.85663	1.00005419
42 14	7133433.354	30.85683	1.00005771
42 15	7131581.944	30.85703	1.00006131
42 16	7129730.522	30.85724	1.00006500
42 17	7127879.088	30.85745	1.00006877
42 18	7126027.641	30.85766	1.00007263
42 19	7124176.182	30.85787	1.00007657
42 20	7122324.710	30.85808	1.00008060

TRANSVERSE MERCATOR PROJECTION

TABLES FOR DELAWARE COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: DELAWARE
ZONE CODE: 0700

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Projection defining constants

$\phi_b = 38^\circ\ 0'$ (latitude of grid origin)
$\lambda_b = 75^\circ 25'$ (longitude of origin and Central Meridian, CM)
$E_0 = 200000$ m (easting coordinate of grid origin)
$N_b = 0$ m (northing coordinate of grid origin)
$k_0 = 0.999995$ (scale along Central Meridian)
latitude range from $\phi_{min} = 38^\circ 00'$ to $\phi_{max} = 40^\circ 10'$

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 38°12'23".54600
LONGITUDE: 76°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.28637550
TABULAR (I) = 22199.5630
23.54600 sec = 726.0008
SECOND DIFF = -0.0006
(I) = 22925.5632
TABULAR (II) = 3647.4294
23.54600 sec = 0.2026
(II) = 3647.6321
TABULAR (III) = 1.9494
$N = (I) + (II)p^2 + (III)p^4$ = 23224.722 m

TABULAR (IV) = 243313.7446
23.54600 sec = -21.7705
SECOND DIFF = 0.0025
(IV) = 243291.9766
TABULAR (V) = 22.6578
23.54600 sec = -0.0233
(V) = 22.6345
TABULAR (VI) = -0.0250
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -69673.393 m
$E = E_0 + E'$ = 130326.607 m

TABULAR (XII) = 6184.0840
23.54600 sec = 0.8970
(XII) = 6184.9809
TABULAR (XIII) = 3.0297
$C = (XII)p + (XIII)p^3$ = -1771".30

$q = 10^{-6} E'$ = -0.06967339
TABULAR (XVI) = 0.012311
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00005476

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06967339$
$\phi' = 38°12'33''.24846$

TABULAR	(VII) =	1998.1784
33.24846 sec	=	0.6587
	(VII) =	1998.8371
TABULAR	(VIII) =	27.9207
33.24846 sec	=	0.0142
	(VIII) =	27.9348

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 38°12'23''.54600$

TABULAR	(IX) =	41099.1990
33.24846 sec	=	5.1938
SECOND DIFF	=	-0.001
	(IX) =	41104.3918
TABULAR	(X) =	376.6588
33.24846 sec	=	0.1851
	(X) =	376.8439
TABULAR	(XI) =	6.5039
33.24846 sec	=	0.0057
	(XI) =	6.5096

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 76°12'43''.75498$

TABULAR	(XIV) =	25416.0897
33.24846 sec	=	8.4187
SECOND DIFF	=	-0.0009
	(XIV) =	25424.5075
TABULAR	(XV) =	335.4879
33.24846 sec	=	0.1964
	(XV) =	335.6843

$C = (XIV)q - (XV)q^3 = -1771''.30$

TABULAR (XVI) = 0.012311

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00005476$

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38° 0'	-0.0000	30.832244	3641.1388	0.008850	1.961
	243977.8385	-0.920456	23.3703	-0.000991	-0.025
38° 1'	1849.9347	30.832332	3641.6697	0.008829	1.960
	243922.6112	-0.920801	23.3108	-0.000991	-0.025
38° 2'	3699.8746	30.832420	3642.1995	0.008809	1.959
	243867.3632	-0.921146	23.2514	-0.000991	-0.025
38° 3'	5549.8197	30.832507	3642.7280	0.008788	1.958
	243812.0944	-0.921491	23.1920	-0.000990	-0.025
38° 4'	7399.7702	30.832595	3643.2553	0.008768	1.957
	243756.8050	-0.921836	23.1326	-0.000990	-0.025
38° 5'	9249.7259	30.832682	3643.7814	0.008747	1.956
	243701.4948	-0.922181	23.0732	-0.000990	-0.025
38° 6'	11099.6868	30.832770	3644.3062	0.008727	1.955
	243646.1640	-0.922525	23.0138	-0.000990	-0.025
38° 7'	12949.6530	30.832858	3644.8298	0.008706	1.954
	243590.8124	-0.922870	22.9544	-0.000989	-0.025
38° 8'	14799.6245	30.832946	3645.3522	0.008686	1.953
	243535.4402	-0.923215	22.8950	-0.000989	-0.025
38° 9'	16649.6012	30.833033	3645.8733	0.008665	1.952
	243480.0473	-0.923559	22.8357	-0.000989	-0.025
38°10'	18499.5832	30.833121	3646.3933	0.008645	1.951
	243424.6338	-0.923904	22.7764	-0.000988	-0.025
38°11'	20349.5705	30.833209	3646.9119	0.008624	1.950
	243369.1995	-0.924248	22.7171	-0.000988	-0.025
38°12'	22199.5630	30.833297	3647.4294	0.008603	1.949
	243313.7446	-0.924593	22.6578	-0.000988	-0.025
38°13'	24049.5608	30.833384	3647.9456	0.008583	1.948
	243258.2691	-0.924937	22.5985	-0.000988	-0.025
38°14'	25899.5639	30.833472	3648.4605	0.008562	1.947
	243202.7729	-0.925281	22.5392	-0.000987	-0.025
38°15'	27749.5722	30.833560	3648.9743	0.008542	1.947
	243147.2560	-0.925625	22.4800	-0.000987	-0.025
38°16'	29599.5858	30.833648	3649.4868	0.008521	1.946
	243091.7185	-0.925969	22.4207	-0.000987	-0.025
38°17'	31449.6047	30.833736	3649.9981	0.008501	1.945
	243036.1603	-0.926313	22.3615	-0.000987	-0.025
38°18'	33299.6288	30.833823	3650.5081	0.008480	1.944
	242980.5815	-0.926657	22.3023	-0.000986	-0.025
38°19'	35149.6582	30.833911	3651.0169	0.008460	1.943
	242924.9821	-0.927001	22.2431	-0.000986	-0.025
38°20'	36999.6929	30.833999	3651.5245	0.008439	1.942
	242869.3620	-0.927345	22.1840	-0.000986	-0.025
38°21'	38849.7328	30.834087	3652.0308	0.008418	1.941
	242813.7213	-0.927688	22.1248	-0.000986	-0.025

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°22'	40699.7780	30.834175	3652.5359	0.008398	1.940
	242758.0600	-0.928032	22.0657	-0.000985	-0.025
38°23'	42549.8285	30.834263	3653.0398	0.008377	1.939
	242702.3781	-0.928375	22.0065	-0.000985	-0.025
38°24'	44399.8843	30.834351	3653.5424	0.008357	1.938
	242646.6756	-0.928719	21.9474	-0.000985	-0.025
38°25'	46249.9453	30.834439	3654.0438	0.008336	1.937
	242590.9524	-0.929062	21.8883	-0.000985	-0.025
38°26'	48100.0117	30.834527	3654.5440	0.008315	1.936
	242535.2087	-0.929406	21.8293	-0.000984	-0.025
38°27'	49950.0833	30.834615	3655.0429	0.008295	1.935
	242479.4444	-0.929749	21.7702	-0.000984	-0.025
38°28'	51800.1601	30.834702	3655.5406	0.008274	1.934
	242423.6595	-0.930092	21.7112	-0.000984	-0.025
38°29'	53650.2423	30.834790	3656.0370	0.008254	1.933
	242367.8539	-0.930435	21.6521	-0.000984	-0.025
38°30'	55500.3297	30.834878	3656.5323	0.008233	1.932
	242312.0278	-0.930778	21.5931	-0.000983	-0.025
38°31'	57350.4224	30.834966	3657.0263	0.008212	1.931
	242256.1812	-0.931121	21.5341	-0.000983	-0.025
38°32'	59200.5204	30.835054	3657.5190	0.008192	1.930
	242200.3139	-0.931464	21.4751	-0.000983	-0.026
38°33'	61050.6237	30.835142	3658.0105	0.008171	1.929
	242144.4261	-0.931806	21.4162	-0.000983	-0.026
38°34'	62900.7322	30.835231	3658.5008	0.008151	1.928
	242088.5177	-0.932149	21.3572	-0.000982	-0.026
38°35'	64750.8460	30.835319	3658.9898	0.008130	1.927
	242032.5888	-0.932492	21.2983	-0.000982	-0.026
38°36'	66600.9652	30.835407	3659.4776	0.008109	1.926
	241976.6393	-0.932834	21.2394	-0.000982	-0.026
38°37'	68451.0896	30.835495	3659.9642	0.008089	1.925
	241920.6692	-0.933177	21.1805	-0.000981	-0.026
38°38'	70301.2192	30.835583	3660.4495	0.008068	1.924
	241864.6786	-0.933519	21.1216	-0.000981	-0.026
38°39'	72151.3542	30.835671	3660.9336	0.008047	1.923
	241808.6675	-0.933861	21.0627	-0.000981	-0.026
38°40'	74001.4945	30.835759	3661.4164	0.008027	1.922
	241752.6358	-0.934203	21.0038	-0.000981	-0.026
38°41'	75851.6400	30.835847	3661.8980	0.008006	1.921
	241696.5836	-0.934546	20.9450	-0.000980	-0.026
38°42'	77701.7908	30.835935	3662.3784	0.007986	1.920
	241640.5109	-0.934888	20.8862	-0.000980	-0.026
38°43'	79551.9469	30.836023	3662.8576	0.007965	1.919
	241584.4176	-0.935230	20.8274	-0.000980	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°44'	81402.1083	30.836112	3663.3354	0.007944	1.918
	241528.3038	-0.935572	20.7686	-0.000980	-0.026
38°45'	83252.2750	30.836200	3663.8121	0.007924	1.917
	241472.1695	-0.935913	20.7098	-0.000979	-0.026
38°46'	85102.4470	30.836288	3664.2875	0.007903	1.916
	241416.0147	-0.936255	20.6511	-0.000979	-0.026
38°47'	86952.6243	30.836376	3664.7617	0.007882	1.915
	241359.8394	-0.936597	20.5923	-0.000979	-0.026
38°48'	88802.8069	30.836464	3665.2346	0.007862	1.914
	241303.6436	-0.936938	20.5336	-0.000978	-0.026
38°49'	90652.9947	30.836552	3665.7063	0.007841	1.913
	241247.4273	-0.937280	20.4749	-0.000978	-0.026
38°50'	92503.1879	30.836641	3666.1768	0.007820	1.912
	241191.1905	-0.937621	20.4162	-0.000978	-0.026
38°51'	94353.3863	30.836729	3666.6460	0.007800	1.911
	241134.9333	-0.937963	20.3575	-0.000978	-0.026
38°52'	96203.5900	30.836817	3667.1140	0.007779	1.910
	241078.6555	-0.938304	20.2989	-0.000977	-0.026
38°53'	98053.7991	30.836905	3667.5808	0.007758	1.909
	241022.3573	-0.938645	20.2402	-0.000977	-0.026
38°54'	99904.0134	30.836994	3668.0463	0.007738	1.908
	240966.0385	-0.938986	20.1816	-0.000977	-0.026
38°55'	101754.2330	30.837082	3668.5105	0.007717	1.907
	240909.6994	-0.939327	20.1230	-0.000976	-0.026
38°56'	103604.4579	30.837170	3668.9735	0.007696	1.906
	240853.3397	-0.939668	20.0644	-0.000976	-0.026
38°57'	105454.6882	30.837259	3669.4353	0.007676	1.905
	240796.9596	-0.940009	20.0059	-0.000976	-0.026
38°58'	107304.9237	30.837347	3669.8959	0.007655	1.904
	240740.5591	-0.940350	19.9473	-0.000976	-0.026
38°59'	109155.1645	30.837435	3670.3552	0.007634	1.903
	240684.1381	-0.940691	19.8888	-0.000975	-0.026
39° 0'	111005.4106	30.837524	3670.8132	0.007614	1.902
	240627.6966	-0.941031	19.8302	-0.000975	-0.026
39° 1'	112855.6620	30.837612	3671.2701	0.007593	1.901
	240571.2347	-0.941372	19.7717	-0.000975	-0.026
39° 2'	114705.9188	30.837700	3671.7256	0.007572	1.900
	240514.7524	-0.941713	19.7132	-0.000974	-0.026
39° 3'	116556.1808	30.837789	3672.1800	0.007552	1.899
	240458.2496	-0.942053	19.6548	-0.000974	-0.026
39° 4'	118406.4481	30.837877	3672.6331	0.007531	1.898
	240401.7265	-0.942393	19.5963	-0.000974	-0.026
39° 5'	120256.7207	30.837965	3673.0849	0.007510	1.897
	240345.1829	-0.942734	19.5379	-0.000974	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39° 6'	122106.9987	30.838054	3673.5355	0.007489	1.896
	240288.6188	-0.943074	19.4795	-0.000973	-0.026
39° 7'	123957.2819	30.838142	3673.9849	0.007469	1.895
	240232.0344	-0.943414	19.4211	-0.000973	-0.026
39° 8'	125807.5704	30.838231	3674.4330	0.007448	1.894
	240175.4296	-0.943754	19.3627	-0.000973	-0.026
39° 9'	127657.8643	30.838319	3674.8799	0.007427	1.893
	240118.8043	-0.944094	19.3043	-0.000972	-0.026
39°10'	129508.1634	30.838408	3675.3255	0.007407	1.892
	240062.1587	-0.944434	19.2460	-0.000972	-0.026
39°11'	131358.4679	30.838496	3675.7699	0.007386	1.891
	240005.4926	-0.944774	19.1876	-0.000972	-0.026
39°12'	133208.7776	30.838585	3676.2131	0.007365	1.890
	239948.8062	-0.945113	19.1293	-0.000972	-0.026
39°13'	135059.0927	30.838673	3676.6550	0.007345	1.889
	239892.0994	-0.945453	19.0710	-0.000971	-0.026
39°14'	136909.4131	30.838762	3677.0957	0.007324	1.888
	239835.3722	-0.945793	19.0127	-0.000971	-0.026
39°15'	138759.7388	30.838850	3677.5351	0.007303	1.887
	239778.6247	-0.946132	18.9545	-0.000971	-0.026
39°16'	140610.0698	30.838939	3677.9733	0.007282	1.886
	239721.8567	-0.946472	18.8962	-0.000970	-0.027
39°17'	142460.4061	30.839027	3678.4102	0.007262	1.885
	239665.0684	-0.946811	18.8380	-0.000970	-0.027
39°18'	144310.7478	30.839116	3678.8459	0.007241	1.884
	239608.2598	-0.947150	18.7798	-0.000970	-0.027
39°19'	146161.0947	30.839204	3679.2804	0.007220	1.883
	239551.4308	-0.947489	18.7216	-0.000970	-0.027
39°20'	148011.4469	30.839293	3679.7136	0.007199	1.882
	239494.5814	-0.947829	18.6634	-0.000969	-0.027
39°21'	149861.8045	30.839381	3680.1456	0.007179	1.881
	239437.7117	-0.948168	18.6053	-0.000969	-0.027
39°22'	151712.1674	30.839470	3680.5763	0.007158	1.880
	239380.8216	-0.948507	18.5471	-0.000969	-0.027
39°23'	153562.5356	30.839559	3681.0057	0.007137	1.879
	239323.9112	-0.948845	18.4890	-0.000968	-0.027
39°24'	155412.9091	30.839647	3681.4340	0.007116	1.878
	239266.9805	-0.949184	18.4309	-0.000968	-0.027
39°25'	157263.2879	30.839736	3681.8610	0.007096	1.877
	239210.0294	-0.949523	18.3728	-0.000968	-0.027
39°26'	159113.6721	30.839824	3682.2867	0.007075	1.876
	239153.0581	-0.949862	18.3148	-0.000967	-0.027
39°27'	160964.0615	30.839913	3682.7112	0.007054	1.875
	239096.0664	-0.950200	18.2567	-0.000967	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°28'	162814.4563	30.840002	3683.1345	0.007033	1.874
	239039.0543	-0.950539	18.1987	-0.000967	-0.027
39°29'	164664.8564	30.840090	3683.5565	0.007013	1.873
	238982.0220	-0.950877	18.1407	-0.000967	-0.027
39°30'	166515.2618	30.840179	3683.9772	0.006992	1.872
	238924.9694	-0.951215	18.0827	-0.000966	-0.027
39°31'	168365.6726	30.840268	3684.3967	0.006971	1.871
	238867.8965	-0.951554	18.0247	-0.000966	-0.027
39°32'	170216.0886	30.840356	3684.8150	0.006950	1.870
	238810.8033	-0.951892	17.9668	-0.000966	-0.027
39°33'	172066.5100	30.840445	3685.2320	0.006930	1.869
	238753.6897	-0.952230	17.9088	-0.000965	-0.027
39°34'	173916.9367	30.840534	3685.6478	0.006909	1.868
	238696.5559	-0.952568	17.8509	-0.000965	-0.027
39°35'	175767.3688	30.840622	3686.0623	0.006888	1.867
	238639.4019	-0.952906	17.7930	-0.000965	-0.027
39°36'	177617.8061	30.840711	3686.4756	0.006867	1.866
	238582.2275	-0.953244	17.7351	-0.000964	-0.027
39°37'	179468.2488	30.840800	3686.8876	0.006846	1.864
	238525.0329	-0.953582	17.6772	-0.000964	-0.027
39°38'	181318.6968	30.840889	3687.2984	0.006826	1.863
	238467.8180	-0.953919	17.6194	-0.000964	-0.027
39°39'	183169.1501	30.840977	3687.7080	0.006805	1.862
	238410.5828	-0.954257	17.5616	-0.000964	-0.027
39°40'	185019.6087	30.841066	3688.1163	0.006784	1.861
	238353.3274	-0.954594	17.5038	-0.000963	-0.027
39°41'	186870.0727	30.841155	3688.5233	0.006763	1.860
	238296.0517	-0.954932	17.4460	-0.000963	-0.027
39°42'	188720.5420	30.841244	3688.9291	0.006743	1.859
	238238.7558	-0.955269	17.3882	-0.000963	-0.027
39°43'	190571.0167	30.841333	3689.3337	0.006722	1.858
	238181.4397	-0.955607	17.3304	-0.000962	-0.027
39°44'	192421.4966	30.841421	3689.7370	0.006701	1.857
	238124.1032	-0.955944	17.2727	-0.000962	-0.027
39°45'	194271.9819	30.841510	3690.1390	0.006680	1.856
	238066.7466	-0.956281	17.2150	-0.000962	-0.027
39°46'	196122.4725	30.841599	3690.5399	0.006659	1.855
	238009.3698	-0.956618	17.1573	-0.000961	-0.027
39°47'	197972.9685	30.841688	3690.9394	0.006639	1.854
	237951.9727	-0.956955	17.0996	-0.000961	-0.027
39°48'	199823.4697	30.841777	3691.3377	0.006618	1.853
	237894.5554	-0.957292	17.0419	-0.000961	-0.027
39°49'	201673.9763	30.841866	3691.7348	0.006597	1.852
	237837.1178	-0.957629	16.9843	-0.000960	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

DELAWARE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°50'	203524.4883	30.841955	3692.1306	0.006576	1.851
	237779.6601	-0.957966	16.9267	-0.000960	-0.027
39°51'	205375.0056	30.842043	3692.5252	0.006555	1.850
	237722.1822	-0.958302	16.8691	-0.000960	-0.027
39°52'	207225.5282	30.842132	3692.9185	0.006535	1.849
	237664.6840	-0.958639	16.8115	-0.000959	-0.027
39°53'	209076.0561	30.842221	3693.3106	0.006514	1.848
	237607.1657	-0.958976	16.7539	-0.000959	-0.027
39°54'	210926.5894	30.842310	3693.7014	0.006493	1.847
	237549.6271	-0.959312	16.6964	-0.000959	-0.027
39°55'	212777.1280	30.842399	3694.0910	0.006472	1.845
	237492.0684	-0.959648	16.6388	-0.000959	-0.027
39°56'	214627.6719	30.842488	3694.4793	0.006451	1.844
	237434.4895	-0.959985	16.5813	-0.000958	-0.027
39°57'	216478.2212	30.842577	3694.8664	0.006430	1.843
	237376.8904	-0.960321	16.5238	-0.000958	-0.027
39°58'	218328.7758	30.842666	3695.2522	0.006410	1.842
	237319.2712	-0.960657	16.4664	-0.000958	-0.027
39°59'	220179.3358	30.842755	3695.6368	0.006389	1.841
	237261.6318	-0.960993	16.4089	-0.000957	-0.027
40° 0'	222029.9010	30.842844	3696.0201	0.006368	1.840
	237203.9722	-0.961329	16.3515	-0.000957	-0.027
40° 1'	223880.4717	30.842933	3696.4022	0.006347	1.839
	237146.2925	-0.961665	16.2940	-0.000957	-0.027
40° 2'	225731.0476	30.843022	3696.7830	0.006326	1.838
	237088.5926	-0.962001	16.2367	-0.000956	-0.027
40° 3'	227581.6289	30.843111	3697.1626	0.006305	1.837
	237030.8725	-0.962336	16.1793	-0.000956	-0.027
40° 4'	229432.2156	30.843200	3697.5409	0.006285	1.836
	236973.1323	-0.962672	16.1219	-0.000956	-0.027
40° 5'	231282.8076	30.843289	3697.9180	0.006264	1.835
	236915.3720	-0.963008	16.0646	-0.000955	-0.027
40° 6'	233133.4049	30.843378	3698.2938	0.006243	1.834
	236857.5915	-0.963343	16.0073	-0.000955	-0.028
40° 7'	234984.0076	30.843467	3698.6684	0.006222	1.833
	236799.7910	-0.963679	15.9500	-0.000955	-0.028
40° 8'	236834.6156	30.843556	3699.0417	0.006201	1.832
	236741.9702	-0.964014	15.8927	-0.000954	-0.028
40° 9'	238685.2289	30.843645	3699.4138	0.006180	1.831
	236684.1294	-0.964349	15.8354	-0.000954	-0.028
40°10'	240535.8476	30.843734	3699.7846	0.006160	1.829
	236626.2684	-0.964684	15.7782	-0.000954	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

DELAWARE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38° 0'	-0.0000	30.832244	1983.9556	0.019705	27.616
	40987.3293	0.154668	372.6847	0.005479	6.382
38° 1'	1849.9347	30.832332	1985.1379	0.019714	27.641
	40996.6093	0.154796	373.0134	0.005487	6.392
38° 2'	3699.8746	30.832420	1986.3207	0.019723	27.667
	41005.8971	0.154924	373.3426	0.005494	6.402
38° 3'	5549.8197	30.832507	1987.5041	0.019732	27.692
	41015.1926	0.155053	373.6723	0.005501	6.412
38° 4'	7399.7702	30.832595	1988.6880	0.019741	27.717
	41024.4957	0.155181	374.0023	0.005509	6.422
38° 5'	9249.7259	30.832682	1989.8724	0.019749	27.742
	41033.8066	0.155310	374.3328	0.005516	6.433
38° 6'	11099.6868	30.832770	1991.0574	0.019758	27.768
	41043.1251	0.155438	374.6638	0.005523	6.443
38° 7'	12949.6530	30.832858	1992.2429	0.019767	27.793
	41052.4514	0.155567	374.9952	0.005531	6.453
38° 8'	14799.6245	30.832946	1993.4289	0.019776	27.819
	41061.7855	0.155696	375.3270	0.005538	6.463
38° 9'	16649.6012	30.833033	1994.6155	0.019785	27.844
	41071.1272	0.155825	375.6593	0.005545	6.473
38°10'	18499.5832	30.833121	1995.8026	0.019794	27.870
	41080.4767	0.155954	375.9920	0.005553	6.483
38°11'	20349.5705	30.833209	1996.9902	0.019803	27.895
	41089.8340	0.156083	376.3252	0.005560	6.494
38°12'	22199.5630	30.833297	1998.1784	0.019812	27.921
	41099.1990	0.156213	376.6588	0.005568	6.504
38°13'	24049.5608	30.833384	1999.3671	0.019821	27.946
	41108.5717	0.156342	376.9929	0.005575	6.514
38°14'	25899.5639	30.833472	2000.5564	0.019830	27.972
	41117.9522	0.156472	377.3274	0.005583	6.525
38°15'	27749.5722	30.833560	2001.7462	0.019839	27.997
	41127.3405	0.156601	377.6623	0.005590	6.535
38°16'	29599.5858	30.833648	2002.9365	0.019848	28.023
	41136.7366	0.156731	377.9977	0.005598	6.545
38°17'	31449.6047	30.833736	2004.1274	0.019857	28.049
	41146.1405	0.156861	378.3336	0.005605	6.556
38°18'	33299.6288	30.833823	2005.3188	0.019866	28.075
	41155.5522	0.156991	378.6699	0.005613	6.566
38°19'	35149.6582	30.833911	2006.5107	0.019875	28.100
	41164.9716	0.157121	379.0066	0.005620	6.576
38°20'	36999.6929	30.833999	2007.7032	0.019884	28.126
	41174.3989	0.157252	379.3438	0.005628	6.587
38°21'	38849.7328	30.834087	2008.8963	0.019893	28.152
	41183.8340	0.157382	379.6815	0.005635	6.597

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

DELAWARE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°22'	40699.7780	30.834175	2010.0898	0.019902	28.178
	41193.2770	0.157513	380.0196	0.005643	6.608
38°23'	42549.8285	30.834263	2011.2840	0.019911	28.203
	41202.7277	0.157643	380.3582	0.005650	6.618
38°24'	44399.8843	30.834351	2012.4786	0.019920	28.229
	41212.1863	0.157774	380.6972	0.005658	6.629
38°25'	46249.9453	30.834439	2013.6738	0.019929	28.255
	41221.6527	0.157905	381.0367	0.005665	6.639
38°26'	48100.0117	30.834527	2014.8696	0.019938	28.281
	41231.1270	0.158036	381.3766	0.005673	6.650
38°27'	49950.0833	30.834615	2016.0659	0.019947	28.307
	41240.6092	0.158167	381.7170	0.005681	6.660
38°28'	51800.1601	30.834702	2017.2627	0.019957	28.333
	41250.0992	0.158298	382.0578	0.005688	6.671
38°29'	53650.2423	30.834790	2018.4601	0.019966	28.359
	41259.5971	0.158429	382.3991	0.005696	6.681
38°30'	55500.3297	30.834878	2019.6581	0.019975	28.385
	41269.1029	0.158561	382.7408	0.005704	6.692
38°31'	57350.4224	30.834966	2020.8565	0.019984	28.411
	41278.6165	0.158693	383.0831	0.005711	6.703
38°32'	59200.5204	30.835054	2022.0556	0.019993	28.437
	41288.1381	0.158824	383.4257	0.005719	6.713
38°33'	61050.6237	30.835142	2023.2552	0.020002	28.464
	41297.6675	0.158956	383.7689	0.005727	6.724
38°34'	62900.7322	30.835231	2024.4553	0.020011	28.490
	41307.2049	0.159088	384.1125	0.005734	6.735
38°35'	64750.8460	30.835319	2025.6560	0.020021	28.516
	41316.7502	0.159220	384.4565	0.005742	6.746
38°36'	66600.9652	30.835407	2026.8572	0.020030	28.542
	41326.3034	0.159352	384.8010	0.005750	6.756
38°37'	68451.0896	30.835495	2028.0590	0.020039	28.568
	41335.8645	0.159484	385.1460	0.005757	6.767
38°38'	70301.2192	30.835583	2029.2613	0.020048	28.595
	41345.4336	0.159617	385.4915	0.005765	6.778
38°39'	72151.3542	30.835671	2030.4642	0.020057	28.621
	41355.0106	0.159749	385.8374	0.005773	6.789
38°40'	74001.4945	30.835759	2031.6677	0.020067	28.647
	41364.5955	0.159882	386.1838	0.005781	6.799
38°41'	75851.6400	30.835847	2032.8717	0.020076	28.674
	41374.1885	0.160015	386.5306	0.005789	6.810
38°42'	77701.7908	30.835935	2034.0762	0.020085	28.700
	41383.7893	0.160148	386.8779	0.005796	6.821
38°43'	79551.9469	30.836023	2035.2813	0.020094	28.726
	41393.3982	0.160281	387.2257	0.005804	6.832

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.001

Transverse Mercator projection tables

DELAWARE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°44'	81402.1083	30.836112	2036.4870	0.020104	28.753
	41403.0151	0.160414	387.5739	0.005812	6.843
38°45'	83252.2750	30.836200	2037.6932	0.020113	28.779
	41412.6399	0.160547	387.9227	0.005820	6.854
38°46'	85102.4470	30.836288	2038.9000	0.020122	28.806
	41422.2727	0.160680	388.2719	0.005828	6.865
38°47'	86952.6243	30.836376	2040.1073	0.020132	28.832
	41431.9135	0.160814	388.6215	0.005836	6.876
38°48'	88802.8069	30.836464	2041.3152	0.020141	28.859
	41441.5624	0.160948	388.9716	0.005843	6.887
38°49'	90652.9947	30.836552	2042.5236	0.020150	28.886
	41451.2192	0.161081	389.3222	0.005851	6.898
38°50'	92503.1879	30.836641	2043.7327	0.020159	28.912
	41460.8841	0.161215	389.6733	0.005859	6.909
38°51'	94353.3863	30.836729	2044.9422	0.020169	28.939
	41470.5570	0.161349	390.0249	0.005867	6.920
38°52'	96203.5900	30.836817	2046.1523	0.020178	28.966
	41480.2380	0.161483	390.3769	0.005875	6.931
38°53'	98053.7991	30.836905	2047.3630	0.020188	28.992
	41489.9270	0.161617	390.7294	0.005883	6.942
38°54'	99904.0134	30.836994	2048.5743	0.020197	29.019
	41499.6240	0.161752	391.0824	0.005891	6.953
38°55'	101754.2330	30.837082	2049.7861	0.020206	29.046
	41509.3291	0.161886	391.4358	0.005899	6.965
38°56'	103604.4579	30.837170	2050.9985	0.020216	29.073
	41519.0423	0.162021	391.7898	0.005907	6.976
38°57'	105454.6882	30.837259	2052.2114	0.020225	29.099
	41528.7636	0.162156	392.1442	0.005915	6.987
38°58'	107304.9237	30.837347	2053.4249	0.020234	29.126
	41538.4929	0.162290	392.4991	0.005923	6.998
38°59'	109155.1645	30.837435	2054.6390	0.020244	29.153
	41548.2303	0.162425	392.8544	0.005931	7.009
39° 0'	111005.4106	30.837524	2055.8536	0.020253	29.180
	41557.9758	0.162560	393.2103	0.005939	7.021
39° 1'	112855.6620	30.837612	2057.0688	0.020263	29.207
	41567.7295	0.162696	393.5666	0.005947	7.032
39° 2'	114705.9188	30.837700	2058.2846	0.020272	29.234
	41577.4912	0.162831	393.9234	0.005955	7.043
39° 3'	116556.1808	30.837789	2059.5009	0.020282	29.261
	41587.2611	0.162966	394.2807	0.005963	7.055
39° 4'	118406.4481	30.837877	2060.7178	0.020291	29.288
	41597.0390	0.163102	394.6385	0.005971	7.066
39° 5'	120256.7207	30.837965	2061.9353	0.020301	29.315
	41606.8252	0.163238	394.9968	0.005979	7.077

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

DELAWARE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39° 6'	122106.9987	30.838054	2063.1533	0.020310	29.342
	41616.6194	0.163373	395.3555	0.005987	7.089
39° 7'	123957.2819	30.838142	2064.3719	0.020320	29.369
	41626.4218	0.163509	395.7148	0.005995	7.100
39° 8'	125807.5704	30.838231	2065.5911	0.020329	29.397
	41636.2324	0.163646	396.0745	0.006004	7.112
39° 9'	127657.8643	30.838319	2066.8108	0.020339	29.424
	41646.0511	0.163782	396.4347	0.006012	7.123
39°10'	129508.1634	30.838408	2068.0312	0.020348	29.451
	41655.8780	0.163918	396.7954	0.006020	7.135
39°11'	131358.4679	30.838496	2069.2520	0.020358	29.478
	41665.7131	0.164054	397.1566	0.006028	7.146
39°12'	133208.7776	30.838585	2070.4735	0.020367	29.505
	41675.5564	0.164191	397.5183	0.006036	7.158
39°13'	135059.0927	30.838673	2071.6955	0.020377	29.533
	41685.4078	0.164328	397.8805	0.006044	7.169
39°14'	136909.4131	30.838762	2072.9181	0.020386	29.560
	41695.2675	0.164465	398.2432	0.006053	7.181
39°15'	138759.7388	30.838850	2074.1413	0.020396	29.588
	41705.1354	0.164601	398.6063	0.006061	7.192
39°16'	140610.0698	30.838939	2075.3651	0.020406	29.615
	41715.0115	0.164739	398.9700	0.006069	7.204
39°17'	142460.4061	30.839027	2076.5894	0.020415	29.642
	41724.8958	0.164876	399.3341	0.006077	7.216
39°18'	144310.7478	30.839116	2077.8143	0.020425	29.670
	41734.7883	0.165013	399.6988	0.006086	7.227
39°19'	146161.0947	30.839204	2079.0398	0.020434	29.697
	41744.6891	0.165151	400.0639	0.006094	7.239
39°20'	148011.4469	30.839293	2080.2659	0.020444	29.725
	41754.5981	0.165288	400.4295	0.006102	7.251
39°21'	149861.8045	30.839381	2081.4925	0.020454	29.752
	41764.5154	0.165426	400.7957	0.006111	7.262
39°22'	151712.1674	30.839470	2082.7197	0.020463	29.780
	41774.4410	0.165564	401.1623	0.006119	7.274
39°23'	153562.5356	30.839559	2083.9475	0.020473	29.808
	41784.3748	0.165702	401.5294	0.006127	7.286
39°24'	155412.9091	30.839647	2085.1759	0.020483	29.835
	41794.3169	0.165840	401.8971	0.006136	7.298
39°25'	157263.2879	30.839736	2086.4049	0.020492	29.863
	41804.2673	0.165978	402.2652	0.006144	7.310
39°26'	159113.6721	30.839824	2087.6344	0.020502	29.891
	41814.2259	0.166116	402.6338	0.006152	7.322
39°27'	160964.0615	30.839913	2088.8646	0.020512	29.918
	41824.1929	0.166255	403.0030	0.006161	7.333

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

DELAWARE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°28'	162814.4563	30.840002	2090.0953	0.020521	29.946
	41834.1682	0.166393	403.3726	0.006169	7.345
39°29'	164664.8564	30.840090	2091.3265	0.020531	29.974
	41844.1518	0.166532	403.7427	0.006177	7.357
39°30'	166515.2618	30.840179	2092.5584	0.020541	30.002
	41854.1437	0.166671	404.1134	0.006186	7.369
39°31'	168365.6726	30.840268	2093.7909	0.020551	30.030
	41864.1439	0.166810	404.4845	0.006194	7.381
39°32'	170216.0886	30.840356	2095.0239	0.020560	30.058
	41874.1525	0.166949	404.8562	0.006203	7.393
39°33'	172066.5100	30.840445	2096.2575	0.020570	30.086
	41884.1695	0.167088	405.2284	0.006211	7.405
39°34'	173916.9367	30.840534	2097.4918	0.020580	30.114
	41894.1947	0.167227	405.6010	0.006220	7.417
39°35'	175767.3688	30.840622	2098.7266	0.020590	30.142
	41904.2284	0.167367	405.9742	0.006228	7.429
39°36'	177617.8061	30.840711	2099.9620	0.020600	30.170
	41914.2704	0.167507	406.3479	0.006237	7.441
39°37'	179468.2488	30.840800	2101.1979	0.020609	30.198
	41924.3208	0.167646	406.7221	0.006245	7.454
39°38'	181318.6968	30.840889	2102.4345	0.020619	30.226
	41934.3796	0.167786	407.0968	0.006254	7.466
39°39'	183169.1501	30.840977	2103.6717	0.020629	30.254
	41944.4468	0.167926	407.4721	0.006262	7.478
39°40'	185019.6087	30.841066	2104.9094	0.020639	30.282
	41954.5223	0.168066	407.8478	0.006271	7.490
39°41'	186870.0727	30.841155	2106.1477	0.020649	30.310
	41964.6063	0.168207	408.2241	0.006280	7.502
39°42'	188720.5420	30.841244	2107.3867	0.020659	30.338
	41974.6987	0.168347	408.6008	0.006288	7.515
39°43'	190571.0167	30.841333	2108.6262	0.020669	30.367
	41984.7995	0.168488	408.9781	0.006297	7.527
39°44'	192421.4966	30.841421	2109.8663	0.020678	30.395
	41994.9088	0.168628	409.3559	0.006305	7.539
39°45'	194271.9819	30.841510	2111.1070	0.020688	30.423
	42005.0265	0.168769	409.7343	0.006314	7.551
39°46'	196122.4725	30.841599	2112.3483	0.020698	30.452
	42015.1526	0.168910	410.1131	0.006323	7.564
39°47'	197972.9685	30.841688	2113.5902	0.020708	30.480
	42025.2872	0.169051	410.4925	0.006331	7.576
39°48'	199823.4697	30.841777	2114.8327	0.020718	30.508
	42035.4303	0.169192	410.8723	0.006340	7.589
39°49'	201673.9763	30.841866	2116.0758	0.020728	30.537
	42045.5818	0.169334	411.2527	0.006349	7.601

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

DELAWARE — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°50'	203524.4883	30.841955	2117.3194	0.020738	30.565
	42055.7418	0.169475	411.6336	0.006357	7.613
39°51'	205375.0056	30.842043	2118.5637	0.020748	30.594
	42065.9103	0.169617	412.0151	0.006366	7.626
39°52'	207225.5282	30.842132	2119.8086	0.020758	30.622
	42076.0873	0.169758	412.3971	0.006375	7.638
39°53'	209076.0561	30.842221	2121.0541	0.020768	30.651
	42086.2728	0.169900	412.7795	0.006384	7.651
39°54'	210926.5894	30.842310	2122.3001	0.020778	30.680
	42096.4668	0.170042	413.1626	0.006392	7.663
39°55'	212777.1280	30.842399	2123.5468	0.020788	30.708
	42106.6694	0.170184	413.5461	0.006401	7.676
39°56'	214627.6719	30.842488	2124.7941	0.020798	30.737
	42116.8804	0.170326	413.9302	0.006410	7.689
39°57'	216478.2212	30.842577	2126.0420	0.020808	30.766
	42127.1000	0.170469	414.3148	0.006419	7.701
39°58'	218328.7758	30.842666	2127.2905	0.020818	30.794
	42137.3281	0.170611	414.6999	0.006428	7.714
39°59'	220179.3358	30.842755	2128.5395	0.020828	30.823
	42147.5648	0.170754	415.0856	0.006436	7.727
40° 0'	222029.9010	30.842844	2129.7892	0.020838	30.852
	42157.8100	0.170897	415.4717	0.006445	7.739
40° 1'	223880.4717	30.842933	2131.0395	0.020848	30.881
	42168.0638	0.171040	415.8585	0.006454	7.752
40° 2'	225731.0476	30.843022	2132.2904	0.020858	30.910
	42178.3262	0.171183	416.2457	0.006463	7.765
40° 3'	227581.6289	30.843111	2133.5419	0.020868	30.939
	42188.5972	0.171326	416.6335	0.006472	7.777
40° 4'	229432.2156	30.843200	2134.7940	0.020878	30.967
	42198.8767	0.171469	417.0218	0.006481	7.790
40° 5'	231282.8076	30.843289	2136.0467	0.020889	30.996
	42209.1649	0.171613	417.4106	0.006490	7.803
40° 6'	233133.4049	30.843378	2137.3000	0.020899	31.025
	42219.4616	0.171756	417.8000	0.006499	7.816
40° 7'	234984.0076	30.843467	2138.5539	0.020909	31.055
	42229.7670	0.171900	418.1900	0.006508	7.829
40° 8'	236834.6156	30.843556	2139.8085	0.020919	31.084
	42240.0810	0.172044	418.5804	0.006517	7.842
40° 9'	238685.2289	30.843645	2141.0636	0.020929	31.113
	42250.4036	0.172188	418.9714	0.006526	7.855
40°10'	240535.8476	30.843734	2142.3193	0.020939	31.142
	42260.7349	0.172332	419.3629	0.006535	7.868

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38° 0'	-0.0000	30.832244	6156.6148	0.038199	3.033	
			25234.3196	0.251828	331.268	0.012311
38° 1'	1849.9347	30.832332	6158.9067	0.038191	3.033	
			25249.4293	0.251942	331.617	0.012311
38° 2'	3699.8746	30.832420	6161.1982	0.038182	3.032	
			25264.5458	0.252057	331.967	0.012311
38° 3'	5549.8197	30.832507	6163.4891	0.038173	3.032	
			25279.6692	0.252171	332.317	0.012311
38° 4'	7399.7702	30.832595	6165.7795	0.038165	3.032	
			25294.7995	0.252286	332.668	0.012311
38° 5'	9249.7259	30.832682	6168.0694	0.038156	3.032	
			25309.9366	0.252400	333.019	0.012311
38° 6'	11099.6868	30.832770	6170.3588	0.038147	3.031	
			25325.0806	0.252515	333.370	0.012311
38° 7'	12949.6530	30.832858	6172.6476	0.038139	3.031	
			25340.2316	0.252630	333.722	0.012311
38° 8'	14799.6245	30.832946	6174.9359	0.038130	3.031	
			25355.3894	0.252745	334.074	0.012311
38° 9'	16649.6012	30.833033	6177.2237	0.038121	3.031	
			25370.5541	0.252860	334.427	0.012311
38°10'	18499.5832	30.833121	6179.5110	0.038112	3.030	
			25385.7257	0.252976	334.780	0.012311
38°11'	20349.5705	30.833209	6181.7977	0.038104	3.030	
			25400.9042	0.253091	335.134	0.012311
38°12'	22199.5630	30.833297	6184.0840	0.038095	3.030	
			25416.0897	0.253207	335.488	0.012311
38°13'	24049.5608	30.833384	6186.3697	0.038086	3.029	
			25431.2821	0.253322	335.842	0.012310
38°14'	25899.5639	30.833472	6188.6548	0.038078	3.029	
			25446.4814	0.253438	336.197	0.012310
38°15'	27749.5722	30.833560	6190.9395	0.038069	3.029	
			25461.6877	0.253554	336.553	0.012310
38°16'	29599.5858	30.833648	6193.2236	0.038060	3.029	
			25476.9009	0.253670	336.908	0.012310
38°17'	31449.6047	30.833736	6195.5072	0.038051	3.028	
			25492.1211	0.253786	337.265	0.012310
38°18'	33299.6288	30.833823	6197.7903	0.038043	3.028	
			25507.3483	0.253902	337.621	0.012310
38°19'	35149.6582	30.833911	6200.0729	0.038034	3.028	
			25522.5824	0.254019	337.978	0.012310
38°20'	36999.6929	30.833999	6202.3549	0.038025	3.027	
			25537.8235	0.254135	338.336	0.012310
38°21'	38849.7328	30.834087	6204.6364	0.038016	3.027	
			25553.0717	0.254252	338.694	0.012310

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°22'	40699.7780	30.834175	6206.9174	0.038008	3.027	
			25568.3268	0.254369	339.052	0.012310
38°23'	42549.8285	30.834263	6209.1979	0.037999	3.026	
			25583.5889	0.254486	339.411	0.012310
38°24'	44399.8843	30.834351	6211.4778	0.037990	3.026	
			25598.8580	0.254603	339.771	0.012310
38°25'	46249.9453	30.834439	6213.7572	0.037981	3.026	
			25614.1342	0.254720	340.130	0.012310
38°26'	48100.0117	30.834527	6216.0361	0.037973	3.026	
			25629.4174	0.254837	340.491	0.012310
38°27'	49950.0833	30.834615	6218.3145	0.037964	3.025	
			25644.7076	0.254954	340.851	0.012310
38°28'	51800.1601	30.834702	6220.5923	0.037955	3.025	
			25660.0049	0.255072	341.212	0.012310
38°29'	53650.2423	30.834790	6222.8696	0.037946	3.025	
			25675.3092	0.255190	341.574	0.012310
38°30'	55500.3297	30.834878	6225.1464	0.037938	3.024	
			25690.6206	0.255307	341.936	0.012310
38°31'	57350.4224	30.834966	6227.4226	0.037929	3.024	
			25705.9390	0.255425	342.298	0.012310
38°32'	59200.5204	30.835054	6229.6983	0.037920	3.024	
			25721.2645	0.255543	342.661	0.012310
38°33'	61050.6237	30.835142	6231.9735	0.037911	3.023	
			25736.5971	0.255661	343.025	0.012310
38°34'	62900.7322	30.835231	6234.2482	0.037902	3.023	
			25751.9368	0.255780	343.388	0.012310
38°35'	64750.8460	30.835319	6236.5224	0.037894	3.023	
			25767.2836	0.255898	343.753	0.012309
38°36'	66600.9652	30.835407	6238.7960	0.037885	3.022	
			25782.6375	0.256017	344.117	0.012309
38°37'	68451.0896	30.835495	6241.0691	0.037876	3.022	
			25797.9985	0.256135	344.483	0.012309
38°38'	70301.2192	30.835583	6243.3416	0.037867	3.022	
			25813.3666	0.256254	344.848	0.012309
38°39'	72151.3542	30.835671	6245.6136	0.037858	3.021	
			25828.7418	0.256373	345.214	0.012309
38°40'	74001.4945	30.835759	6247.8851	0.037850	3.021	
			25844.1242	0.256492	345.581	0.012309
38°41'	75851.6400	30.835847	6250.1561	0.037841	3.021	
			25859.5137	0.256611	345.948	0.012309
38°42'	77701.7908	30.835935	6252.4266	0.037832	3.020	
			25874.9104	0.256730	346.315	0.012309
38°43'	79551.9469	30.836023	6254.6965	0.037823	3.020	
			25890.3142	0.256850	346.683	0.012309

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°44'	81402.1083	30.836112	6256.9659	0.037814	3.020	
			25905.7252	0.256969	347.052	0.012309
38°45'	83252.2750	30.836200	6259.2347	0.037805	3.019	
			25921.1434	0.257089	347.421	0.012309
38°46'	85102.4470	30.836288	6261.5030	0.037797	3.019	
			25936.5687	0.257209	347.790	0.012309
38°47'	86952.6243	30.836376	6263.7708	0.037788	3.019	
			25952.0012	0.257329	348.160	0.012309
38°48'	88802.8069	30.836464	6266.0381	0.037779	3.018	
			25967.4409	0.257449	348.530	0.012309
38°49'	90652.9947	30.836552	6268.3049	0.037770	3.018	
			25982.8879	0.257569	348.901	0.012309
38°50'	92503.1879	30.836641	6270.5711	0.037761	3.018	
			25998.3420	0.257689	349.272	0.012309
38°51'	94353.3863	30.836729	6272.8367	0.037752	3.017	
			26013.8033	0.257810	349.643	0.012309
38°52'	96203.5900	30.836817	6275.1019	0.037744	3.017	
			26029.2719	0.257930	350.015	0.012309
38°53'	98053.7991	30.836905	6277.3665	0.037735	3.017	
			26044.7477	0.258051	350.388	0.012309
38°54'	99904.0134	30.836994	6279.6306	0.037726	3.016	
			26060.2308	0.258172	350.761	0.012309
38°55'	101754.2330	30.837082	6281.8941	0.037717	3.016	
			26075.7211	0.258293	351.134	0.012309
38°56'	103604.4579	30.837170	6284.1571	0.037708	3.016	
			26091.2186	0.258414	351.508	0.012308
38°57'	105454.6882	30.837259	6286.4196	0.037699	3.015	
			26106.7235	0.258535	351.883	0.012308
38°58'	107304.9237	30.837347	6288.6816	0.037690	3.015	
			26122.2356	0.258656	352.258	0.012308
38°59'	109155.1645	30.837435	6290.9430	0.037682	3.015	
			26137.7549	0.258778	352.633	0.012308
39° 0'	111005.4106	30.837524	6293.2039	0.037673	3.014	
			26153.2816	0.258899	353.009	0.012308
39° 1'	112855.6620	30.837612	6295.4643	0.037664	3.014	
			26168.8156	0.259021	353.385	0.012308
39° 2'	114705.9188	30.837700	6297.7241	0.037655	3.014	
			26184.3568	0.259143	353.762	0.012308
39° 3'	116556.1808	30.837789	6299.9834	0.037646	3.013	
			26199.9054	0.259265	354.139	0.012308
39° 4'	118406.4481	30.837877	6302.2422	0.037637	3.013	
			26215.4613	0.259387	354.517	0.012308
39° 5'	120256.7207	30.837965	6304.5004	0.037628	3.013	
			26231.0245	0.259509	354.895	0.012308

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39° 6'	122106.9987	30.838054	6306.7581	0.037619	3.012	
			26246.5951	0.259632	355.274	0.012308
39° 7'	123957.2819	30.838142	6309.0152	0.037610	3.012	
			26262.1729	0.259754	355.653	0.012308
39° 8'	125807.5704	30.838231	6311.2719	0.037602	3.011	
			26277.7582	0.259877	356.033	0.012308
39° 9'	127657.8643	30.838319	6313.5280	0.037593	3.011	
			26293.3508	0.259999	356.413	0.012308
39°10'	129508.1634	30.838408	6315.7835	0.037584	3.011	
			26308.9508	0.260122	356.794	0.012308
39°11'	131358.4679	30.838496	6318.0385	0.037575	3.010	
			26324.5581	0.260245	357.175	0.012308
39°12'	133208.7776	30.838585	6320.2930	0.037566	3.010	
			26340.1728	0.260369	357.556	0.012308
39°13'	135059.0927	30.838673	6322.5470	0.037557	3.010	
			26355.7949	0.260492	357.938	0.012308
39°14'	136909.4131	30.838762	6324.8004	0.037548	3.009	
			26371.4245	0.260615	358.321	0.012308
39°15'	138759.7388	30.838850	6327.0533	0.037539	3.009	
			26387.0614	0.260739	358.704	0.012308
39°16'	140610.0698	30.838939	6329.3056	0.037530	3.008	
			26402.7057	0.260863	359.087	0.012308
39°17'	142460.4061	30.839027	6331.5574	0.037521	3.008	
			26418.3575	0.260986	359.471	0.012307
39°18'	144310.7478	30.839116	6333.8087	0.037512	3.008	
			26434.0166	0.261110	359.856	0.012307
39°19'	146161.0947	30.839204	6336.0595	0.037503	3.007	
			26449.6833	0.261234	360.241	0.012307
39°20'	148011.4469	30.839293	6338.3097	0.037494	3.007	
			26465.3573	0.261359	360.626	0.012307
39°21'	149861.8045	30.839381	6340.5593	0.037486	3.007	
			26481.0388	0.261483	361.012	0.012307
39°22'	151712.1674	30.839470	6342.8085	0.037477	3.006	
			26496.7278	0.261607	361.399	0.012307
39°23'	153562.5356	30.839559	6345.0571	0.037468	3.006	
			26512.4243	0.261732	361.786	0.012307
39°24'	155412.9091	30.839647	6347.3051	0.037459	3.005	
			26528.1282	0.261857	362.173	0.012307
39°25'	157263.2879	30.839736	6349.5527	0.037450	3.005	
			26543.8396	0.261982	362.561	0.012307
39°26'	159113.6721	30.839824	6351.7996	0.037441	3.005	
			26559.5585	0.262107	362.950	0.012307
39°27'	160964.0615	30.839913	6354.0461	0.037432	3.004	
			26575.2849	0.262232	363.338	0.012307

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°28'	162814.4563	30.840002	6356.2920	0.037423	3.004	
			26591.0188	0.262357	363.728	0.012307
39°29'	164664.8564	30.840090	6358.5374	0.037414	3.003	
			26606.7603	0.262483	364.118	0.012307
39°30'	166515.2618	30.840179	6360.7822	0.037405	3.003	
			26622.5092	0.262608	364.508	0.012307
39°31'	168365.6726	30.840268	6363.0265	0.037396	3.003	
			26638.2657	0.262734	364.899	0.012307
39°32'	170216.0886	30.840356	6365.2703	0.037387	3.002	
			26654.0298	0.262860	365.290	0.012307
39°33'	172066.5100	30.840445	6367.5135	0.037378	3.002	
			26669.8013	0.262986	365.682	0.012307
39°34'	173916.9367	30.840534	6369.7562	0.037369	3.001	
			26685.5805	0.263112	366.075	0.012307
39°35'	175767.3688	30.840622	6371.9983	0.037360	3.001	
			26701.3672	0.263238	366.468	0.012307
39°36'	177617.8061	30.840711	6374.2399	0.037351	3.001	
			26717.1615	0.263364	366.861	0.012307
39°37'	179468.2488	30.840800	6376.4810	0.037342	3.000	
			26732.9633	0.263491	367.255	0.012307
39°38'	181318.6968	30.840889	6378.7215	0.037333	3.000	
			26748.7728	0.263618	367.649	0.012307
39°39'	183169.1501	30.840977	6380.9615	0.037324	2.999	
			26764.5899	0.263744	368.044	0.012306
39°40'	185019.6087	30.841066	6383.2009	0.037315	2.999	
			26780.4145	0.263871	368.440	0.012306
39°41'	186870.0727	30.841155	6385.4398	0.037306	2.999	
			26796.2468	0.263998	368.835	0.012306
39°42'	188720.5420	30.841244	6387.6782	0.037297	2.998	
			26812.0867	0.264126	369.232	0.012306
39°43'	190571.0167	30.841333	6389.9160	0.037288	2.998	
			26827.9342	0.264253	369.629	0.012306
39°44'	192421.4966	30.841421	6392.1533	0.037279	2.997	
			26843.7894	0.264380	370.026	0.012306
39°45'	194271.9819	30.841510	6394.3900	0.037270	2.997	
			26859.6522	0.264508	370.424	0.012306
39°46'	196122.4725	30.841599	6396.6262	0.037261	2.996	
			26875.5227	0.264636	370.823	0.012306
39°47'	197972.9685	30.841688	6398.8619	0.037252	2.996	
			26891.4008	0.264764	371.222	0.012306
39°48'	199823.4697	30.841777	6401.0970	0.037243	2.996	
			26907.2867	0.264892	371.621	0.012306
39°49'	201673.9763	30.841866	6403.3316	0.037234	2.995	
			26923.1802	0.265020	372.021	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

DELAWARE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°50'	203524.4883	30.841955	6405.5656	0.037225	2.995	
			26939.0813	0.265148	372.422	0.012306
39°51'	205375.0056	30.842043	6407.7991	0.037216	2.994	
			26954.9902	0.265276	372.823	0.012306
39°52'	207225.5282	30.842132	6410.0320	0.037207	2.994	
			26970.9068	0.265405	373.224	0.012306
39°53'	209076.0561	30.842221	6412.2645	0.037198	2.994	
			26986.8311	0.265534	373.626	0.012306
39°54'	210926.5894	30.842310	6414.4963	0.037189	2.993	
			27002.7631	0.265663	374.029	0.012306
39°55'	212777.1280	30.842399	6416.7276	0.037180	2.993	
			27018.7029	0.265792	374.432	0.012306
39°56'	214627.6719	30.842488	6418.9584	0.037171	2.992	
			27034.6504	0.265921	374.835	0.012306
39°57'	216478.2212	30.842577	6421.1887	0.037162	2.992	
			27050.6056	0.266050	375.239	0.012306
39°58'	218328.7758	30.842666	6423.4183	0.037152	2.991	
			27066.5686	0.266179	375.644	0.012306
39°59'	220179.3358	30.842755	6425.6475	0.037143	2.991	
			27082.5394	0.266309	376.049	0.012306
40° 0'	222029.9010	30.842844	6427.8761	0.037134	2.990	
			27098.5179	0.266439	376.455	0.012305
40° 1'	223880.4717	30.842933	6430.1042	0.037125	2.990	
			27114.5043	0.266568	376.861	0.012305
40° 2'	225731.0476	30.843022	6432.3317	0.037116	2.990	
			27130.4984	0.266698	377.268	0.012305
40° 3'	227581.6289	30.843111	6434.5586	0.037107	2.989	
			27146.5003	0.266829	377.675	0.012305
40° 4'	229432.2156	30.843200	6436.7851	0.037098	2.989	
			27162.5100	0.266959	378.083	0.012305
40° 5'	231282.8076	30.843289	6439.0110	0.037089	2.988	
			27178.5275	0.267089	378.491	0.012305
40° 6'	233133.4049	30.843378	6441.2363	0.037080	2.988	
			27194.5529	0.267220	378.900	0.012305
40° 7'	234984.0076	30.843467	6443.4611	0.037071	2.987	
			27210.5861	0.267350	379.309	0.012305
40° 8'	236834.6156	30.843556	6445.6853	0.037062	2.987	
			27226.6271	0.267481	379.719	0.012305
40° 9'	238685.2289	30.843645	6447.9090	0.037053	2.986	
			27242.6760	0.267612	380.130	0.012305
40°10'	240535.8476	30.843734	6450.1322	0.037044	2.986	
			27258.7327	0.267743	380.541	0.012305

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is FLORIDA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 29° 0' (latitude of grid origin)
λ_{CM} = 84 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 29 35 (southern standard parallel)
ϕ_n = 30 45 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.502525902672 = $\sin(\phi_o)$
K = 14473086.8984 m (mapping radius at the equator)
R_b = 11111265.2070 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\cdot\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	30 10 0.00000 85 0 0.00000	10981943.282 m -0 15 4.54662	-0.0043853517 0.9999903843	551840.316 m 129427.524 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 130000.000 m	50000.000 m 10981265.207 m	10981379.0366 m 0 15 39.16037	30 10 18.3247 83 58 51.1205

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
FLORIDA NORTH

Lat	R (meters)	tab diff.	k
29° 0'	11111265.207	30.79241	1.00015411
29 1	11109417.663	30.79230	1.00014829
29 2	11107570.124	30.79221	1.00014255
29 3	11105722.592	30.79211	1.00013690
29 4	11103875.066	30.79201	1.00013133
29 5	11102027.545	30.79192	1.00012584
29 6	11100180.029	30.79184	1.00012043
29 7	11098332.519	30.79175	1.00011511
29 8	11096485.014	30.79167	1.00010987
29 9	11094637.514	30.79159	1.00010472
29 10	11092790.019	30.79151	1.00009965
29 11	11090942.529	30.79143	1.00009466
29 12	11089095.043	30.79136	1.00008976
29 13	11087247.561	30.79129	1.00008493
29 14	11085400.084	30.79122	1.00008020
29 15	11083552.611	30.79116	1.00007554
29 16	11081705.141	30.79109	1.00007097
29 17	11079857.676	30.79103	1.00006648
29 18	11078010.214	30.79097	1.00006208
29 19	11076162.756	30.79092	1.00005776
29 20	11074315.300	30.79087	1.00005352
29 21	11072467.848	30.79082	1.00004937
29 22	11070620.399	30.79077	1.00004530
29 23	11068772.953	30.79073	1.00004131
29 24	11066925.509	30.79069	1.00003741
29 25	11065078.068	30.79065	1.00003359
29 26	11063230.629	30.79061	1.00002986
29 27	11061383.193	30.79058	1.00002620
29 28	11059535.758	30.79054	1.00002264
29 29	11057688.326	30.79051	1.00001915
29 30	11055840.895	30.79049	1.00001575
29 31	11053993.465	30.79047	1.00001243
29 32	11052146.038	30.79044	1.00000920
29 33	11050298.611	30.79043	1.00000605
29 34	11048451.185	30.79041	1.00000298
29 35	11046603.761	30.79040	1.0000000
29 36	11044756.337	30.79039	0.99999710
29 37	11042908.914	30.79038	0.99999429
29 38	11041061.491	30.79037	0.99999155
29 39	11039214.069	30.79037	0.99998891

Lambert conformal conic projection tables
FLORIDA NORTH

Lat	R (meters)	tab diff.	k
29° 40'	11037366.647	30.79037	0.99998634
29 41	11035519.224	30.79037	0.99998386
29 42	11033671.802	30.79038	0.99998147
29 43	11031824.379	30.79038	0.99997915
29 44	11029976.956	30.79040	0.99997692
29 45	11028129.533	30.79041	0.99997478
29 46	11026282.108	30.79042	0.99997272
29 47	11024434.683	30.79044	0.99997074
29 48	11022587.256	30.79046	0.99996885
29 49	11020739.828	30.79049	0.99996704
29 50	11018892.399	30.79051	0.99996531
29 51	11017044.969	30.79054	0.99996367
29 52	11015197.536	30.79057	0.99996211
29 53	11013350.102	30.79060	0.99996064
29 54	11011502.666	30.79064	0.99995925
29 55	11009655.227	30.79068	0.99995794
29 56	11007807.786	30.79072	0.99995672
29 57	11005960.343	30.79077	0.99995558
29 58	11004112.897	30.79081	0.99995453
29 59	11002265.448	30.79086	0.99995356
30 0	11000417.997	30.79091	0.99995267
30 1	10998570.542	30.79097	0.99995187
30 2	10996723.084	30.79103	0.99995115
30 3	10994875.622	30.79109	0.99995052
30 4	10993028.157	30.79115	0.99994997
30 5	10991180.688	30.79121	0.99994950
30 6	10989333.215	30.79128	0.99994912
30 7	10987485.738	30.79135	0.99994882
30 8	10985638.257	30.79142	0.99994861
30 9	10983790.772	30.79150	0.99994848
30 10	10981943.282	30.79158	0.99994843
30 11	10980095.787	30.79166	0.99994847
30 12	10978248.288	30.79174	0.99994860
30 13	10976400.783	30.79183	0.99994880
30 14	10974553.273	30.79192	0.99994909
30 15	10972705.758	30.79201	0.99994947
30 16	10970858.238	30.79210	0.99994993
30 17	10969010.712	30.79220	0.99995048
30 18	10967163.180	30.79230	0.99995110
30 19	10965315.642	30.79240	0.99995182

Lambert conformal conic projection tables
FLORIDA NORTH

Lat	R (meters)	tab diff.	k
30° 20'	10963468.098	30.79250	0.99995261
30 21	10961620.547	30.79261	0.99995350
30 22	10959772.991	30.79272	0.99995446
30 23	10957925.428	30.79283	0.99995551
30 24	10956077.858	30.79295	0.99995665
30 25	10954230.281	30.79307	0.99995787
30 26	10952382.697	30.79319	0.99995917
30 27	10950535.106	30.79331	0.99996056
30 28	10948687.507	30.79343	0.99996203
30 29	10946839.901	30.79356	0.99996359
30 30	10944992.287	30.79369	0.99996523
30 31	10943144.666	30.79383	0.99996696
30 32	10941297.036	30.79396	0.99996877
30 33	10939449.398	30.79410	0.99997066
30 34	10937601.752	30.79424	0.99997264
30 35	10935754.098	30.79439	0.99997471
30 36	10933906.435	30.79453	0.99997685
30 37	10932058.763	30.79468	0.99997909
30 38	10930211.082	30.79483	0.99998141
30 39	10928363.392	30.79499	0.99998381
30 40	10926515.693	30.79514	0.99998629
30 41	10924667.984	30.79530	0.99998887
30 42	10922820.266	30.79547	0.99999152
30 43	10920972.538	30.79563	0.99999426
30 44	10919124.800	30.79580	0.99999709
30 45	10917277.052	30.79597	1.0000000
30 46	10915429.294	30.79614	1.00000300
30 47	10913581.526	30.79632	1.00000608
30 48	10911733.747	30.79649	1.00000924
30 49	10909885.957	30.79668	1.00001249
30 50	10908038.157	30.79686	1.00001582
30 51	10906190.345	30.79704	1.00001924
30 52	10904342.522	30.79723	1.00002275
30 53	10902494.688	30.79742	1.00002633
30 54	10900646.843	30.79762	1.00003001
30 55	10898798.986	30.79781	1.00003377
30 56	10896951.117	30.79801	1.00003761
30 57	10895103.236	30.79822	1.00004154
30 58	10893255.343	30.79842	1.00004555
30 59	10891407.438	30.79863	1.00004965

Lambert conformal conic projection tables
FLORIDA NORTH

Lat	R (meters)	tab diff.	k
31° 0'	10889559.521	30.79884	1.00005383
31 1	10887711.590	30.79905	1.00005810
31 2	10885863.647	30.79926	1.00006245
31 3	10884015.692	30.79948	1.00006689
31 4	10882167.723	30.79970	1.00007141
31 5	10880319.741	30.79992	1.00007602
31 6	10878471.745	30.80015	1.00008071
31 7	10876623.736	30.80038	1.00008549
31 8	10874775.713	30.80061	1.00009036
31 9	10872927.677	30.80084	1.00009530
31 10	10871079.626	30.80108	1.00010034
31 11	10869231.561	30.80132	1.00010546
31 12	10867383.482	30.80156	1.00011066
31 13	10865535.389	30.80180	1.00011595
31 14	10863687.281	30.80205	1.00012132
31 15	10861839.158	30.80230	1.00012678
31 16	10859991.020	30.80255	1.00013233
31 17	10858142.867	30.80281	1.00013796
31 18	10856294.698	30.80306	1.00014367
31 19	10854446.514	30.80332	1.00014947
31 20	10852598.315	30.80359	1.00015536

TRANSVERSE MERCATOR PROJECTION

TABLES FOR ILLINOIS COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ILLINOIS EAST
ZONE CODE: 1201

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 36°40' (latitude of grid origin)
λ_b = 88°20' (longitude of origin and Central Meridian, CM)
E_0 = 300000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999975 (scale along Central Meridian)
latitude range from ϕ_{min} = 36°40' to ϕ_{max} = 43°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  37°15'20".20000
  LONGITUDE:  89°10'40".30000

     p = 10^-4 Δλ  =  -0.30403000
TABULAR  (   I) =   64734.8857
   20.20000 sec =     622.7195
   SECOND DIFF  =      -0.0006
         (   I) =   65357.6047
TABULAR  (  II) =    3615.9007
   20.20000 sec =       0.1973
         (  II) =    3616.0982
TABULAR  ( III) =       2.0016
 N = (I) + (II)p^2 + (III)p^4 =  65691.873 m


TABULAR  (  IV) =  246436.6309
   20.20000 sec =     -18.2775
   SECOND DIFF  =       0.0023
         (  IV) =  246418.3557
TABULAR  (   V) =      26.0602
   20.20000 sec =      -0.0202
         (   V) =      26.0400
TABULAR  (  VI) =      -0.0235
 E' = (IV)p +(V)p^3 + (VI)p^5 = -74919.304 m
 E = E0 + E' =                 225080.696 m


TABULAR  ( XII) =    6052.9399
   20.20000 sec =       0.7795
         ( XII) =    6053.7193
TABULAR  (XIII) =       3.0435
C = (XII)p + (XIII)p^3 =    -1840".60


  q  = 10^-6 E'   =  -0.07491930
TABULAR  ( XVI) =     0.012314
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  1.00004411
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.07491930$
$\phi' = 37°15'31''.04312$

TABULAR	(VII) =	1931.3700
31.04312 sec	=	0.5997
	(VII) =	1931.9696
TABULAR	(VIII) =	26.5098
31.04312 sec	=	0.0124
	(VIII) =	26.5222

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 37°15'20''.20000$

TABULAR	(IX) =	40578.3830
31.04312 sec	=	4.6261
SECOND DIFF	=	-0.0009
	(IX) =	40583.0082
TABULAR	(X) =	358.3551
31.04312 sec	=	0.1603
	(X) =	358.5154
TABULAR	(XI) =	5.9502
31.04312 sec	=	0.0048
	(XI) =	5.9549

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 89°10'40''.29997$

TABULAR	(XIV) =	24561.8513
31.04312 sec	=	7.6620
SECOND DIFF	=	-0.0008
	(XIV) =	24569.5124
TABULAR	(XV) =	316.0038
31.04312 sec	=	0.1711
	(XV) =	316.1749

$C = (XIV)q - (XV)q^3 = -1840''.60$

TABULAR (XVI) = 0.012314

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00004411$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: ILLINOIS WEST
ZONE CODE: 1202

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Projection defining constants

$\phi_b = 36°40'$ (latitude of grid origin)
$\lambda_b = 90°10'$ (longitude of origin and Central Meridian, CM)
$E_0 = 700000$ m (easting coordinate of grid origin)
$N_b = 0$ m (northing coordinate of grid origin)
$k_0 = 0.999941$ (scale along Central Meridian)
latitude range from $\phi_{min} = 36°40'$ to $\phi_{max} = 43°00'$

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  37°15'20".20000
  LONGITUDE:  91°20'50".60000

     p = 10^-4 Δλ  =  -0.42506000
TABULAR  (   I) =   64732.6961
   20.20000 sec =     622.6985
   SECOND DIFF  =      -0.0006
         (   I) =   65355.3940
TABULAR  (  II) =    3615.7784
   20.20000 sec =       0.1973
         (  II) =    3615.9759
TABULAR  ( III) =       2.0015
 N = (I) + (II)p^2 + (III)p^4 =  66008.779 m


TABULAR  (  IV) =  246428.2953
   20.20000 sec =     -18.2769
   SECOND DIFF  =       0.0023
         (  IV) =  246410.0207
TABULAR  (   V) =      26.0593
   20.20000 sec =      -0.0202
         (   V) =      26.0391
TABULAR  (  VI) =      -0.0235
 E' = (IV)p +(V)p^3 + (VI)p^5 = -104741.043 m
 E = E0 + E' =                 595258.957 m


TABULAR  ( XII) =    6052.9399
   20.20000 sec =       0.7795
         ( XII) =    6053.7193
TABULAR  (XIII) =       3.0435
C = (XII)p + (XIII)p^3 =    -2573".43


  q  = 10^-6 E'   =  -0.10474104
TABULAR  ( XVI) =     0.012315
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  1.00007627
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.10474104$
$\phi' = 37°15'41''.39547$

TABULAR	(VII) =	1931.5006
41.39547 sec	=	0.7997
	(VII) =	1932.3003
TABULAR	(VIII) =	26.5134
41.39547 sec	=	0.0166
	(VIII) =	26.5300

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 37°15'20''.20000$

TABULAR	(IX) =	40579.7556
41.39547 sec	=	6.1690
SECOND DIFF	=	-0.0008
	(IX) =	40585.9239
TABULAR	(X) =	358.3915
41.39547 sec	=	0.2137
	(X) =	358.6052
TABULAR	(XI) =	5.9512
41.39547 sec	=	0.0064
	(XI) =	5.9575

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 91°20'50''.59985$

TABULAR	(XIV) =	24562.6821
41.39547 sec	=	10.2174
SECOND DIFF	=	-0.0007
	(XIV) =	24572.8988
TABULAR	(XV) =	316.0359
41.39547 sec	=	0.2282
	(XV) =	316.2640

$C = (XIV)q - (XV)q^3 = -2573''.43$

TABULAR (XVI) = 0.012315

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00007627$

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°40'	-0.0000	30.824663	3594.6158	0.010481	2.032
	248323.5575	-0.892581	28.1712	-0.001009	-0.022
36°41'	1849.4798	30.824750	3595.2446	0.010460	2.031
	248270.0026	-0.892932	28.1106	-0.001008	-0.022
36°42'	3698.9648	30.824836	3595.8722	0.010440	2.030
	248216.4267	-0.893283	28.0501	-0.001008	-0.023
36°43'	5548.4549	30.824923	3596.4987	0.010420	2.029
	248162.8297	-0.893634	27.9896	-0.001008	-0.023
36°44'	7397.9503	30.825009	3597.1238	0.010400	2.028
	248109.2116	-0.893985	27.9291	-0.001008	-0.023
36°45'	9247.4508	30.825096	3597.7478	0.010379	2.027
	248055.5725	-0.894336	27.8687	-0.001008	-0.023
36°46'	11096.9566	30.825182	3598.3706	0.010359	2.027
	248001.9123	-0.894687	27.8082	-0.001007	-0.023
36°47'	12946.4675	30.825269	3598.9921	0.010339	2.026
	247948.2311	-0.895037	27.7478	-0.001007	-0.023
36°48'	14795.9836	30.825355	3599.6124	0.010318	2.025
	247894.5289	-0.895388	27.6873	-0.001007	-0.023
36°49'	16645.5049	30.825442	3600.2316	0.010298	2.024
	247840.8056	-0.895739	27.6269	-0.001007	-0.023
36°50'	18495.0315	30.825529	3600.8494	0.010278	2.023
	247787.0613	-0.896089	27.5665	-0.001007	-0.023
36°51'	20344.5632	30.825615	3601.4661	0.010258	2.022
	247733.2959	-0.896439	27.5061	-0.001006	-0.023
36°52'	22194.1001	30.825702	3602.0816	0.010237	2.022
	247679.5096	-0.896790	27.4457	-0.001006	-0.023
36°53'	24043.6422	30.825789	3602.6958	0.010217	2.021
	247625.7022	-0.897140	27.3853	-0.001006	-0.023
36°54'	25893.1895	30.825875	3603.3088	0.010197	2.020
	247571.8738	-0.897490	27.3250	-0.001006	-0.023
36°55'	27742.7420	30.825962	3603.9207	0.010176	2.019
	247518.0244	-0.897840	27.2646	-0.001006	-0.023
36°56'	29592.2997	30.826049	3604.5312	0.010156	2.018
	247464.1540	-0.898190	27.2043	-0.001005	-0.023
36°57'	31441.8626	30.826135	3605.1406	0.010136	2.017
	247410.2625	-0.898540	27.1439	-0.001005	-0.023
36°58'	33291.4308	30.826222	3605.7488	0.010116	2.016
	247356.3501	-0.898890	27.0836	-0.001005	-0.023
36°59'	35141.0041	30.826309	3606.3557	0.010095	2.016
	247302.4167	-0.899240	27.0233	-0.001005	-0.023
37° 0'	36990.5826	30.826396	3606.9614	0.010075	2.015
	247248.4623	-0.899590	26.9630	-0.001005	-0.023
37° 1'	38840.1663	30.826482	3607.5659	0.010055	2.014
	247194.4869	-0.899939	26.9027	-0.001004	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37° 2'	40689.7553	30.826569	3608.1692	0.010034	2.013
	247140.4906	-0.900289	26.8425	-0.001004	-0.023
37° 3'	42539.3494	30.826656	3608.7712	0.010014	2.012
	247086.4733	-0.900638	26.7822	-0.001004	-0.023
37° 4'	44388.9488	30.826743	3609.3721	0.009994	2.011
	247032.4350	-0.900988	26.7220	-0.001004	-0.023
37° 5'	46238.5534	30.826830	3609.9717	0.009973	2.010
	246978.3757	-0.901337	26.6618	-0.001004	-0.023
37° 6'	48088.1631	30.826916	3610.5701	0.009953	2.009
	246924.2955	-0.901686	26.6015	-0.001003	-0.023
37° 7'	49937.7781	30.827003	3611.1672	0.009933	2.009
	246870.1943	-0.902036	26.5413	-0.001003	-0.023
37° 8'	51787.3983	30.827090	3611.7632	0.009912	2.008
	246816.0721	-0.902385	26.4812	-0.001003	-0.023
37° 9'	53637.0237	30.827177	3612.3579	0.009892	2.007
	246761.9290	-0.902734	26.4210	-0.001003	-0.023
37°10'	55486.6544	30.827264	3612.9515	0.009872	2.006
	246707.7650	-0.903083	26.3608	-0.001003	-0.023
37°11'	57336.2902	30.827351	3613.5437	0.009851	2.005
	246653.5800	-0.903432	26.3007	-0.001002	-0.023
37°12'	59185.9313	30.827438	3614.1348	0.009831	2.004
	246599.3741	-0.903781	26.2405	-0.001002	-0.023
37°13'	61035.5775	30.827525	3614.7247	0.009810	2.003
	246545.1473	-0.904129	26.1804	-0.001002	-0.023
37°14'	62885.2290	30.827612	3615.3133	0.009790	2.002
	246490.8995	-0.904478	26.1203	-0.001002	-0.023
37°15'	64734.8857	30.827699	3615.9007	0.009770	2.002
	246436.6309	-0.904827	26.0602	-0.001001	-0.023
37°16'	66584.5477	30.827786	3616.4869	0.009749	2.001
	246382.3413	-0.905175	26.0001	-0.001001	-0.024
37°17'	68434.2148	30.827873	3617.0718	0.009729	2.000
	246328.0307	-0.905524	25.9400	-0.001001	-0.024
37°18'	70283.8872	30.827960	3617.6556	0.009709	1.999
	246273.6993	-0.905872	25.8800	-0.001001	-0.024
37°19'	72133.5648	30.828047	3618.2381	0.009688	1.998
	246219.3470	-0.906220	25.8199	-0.001001	-0.024
37°20'	73983.2476	30.828134	3618.8194	0.009668	1.997
	246164.9738	-0.906569	25.7599	-0.001000	-0.024
37°21'	75832.9356	30.828221	3619.3994	0.009647	1.996
	246110.5797	-0.906917	25.6999	-0.001000	-0.024
37°22'	77682.6289	30.828308	3619.9783	0.009627	1.995
	246056.1647	-0.907265	25.6399	-0.00100	-0.024
37°23'	79532.3274	30.828395	3620.5559	0.009607	1.994
	246001.7288	-0.907613	25.5799	-0.00100	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°24'	81382.0311	30.828482	3621.1323	0.009586	1.994
	245947.2720	-0.907961	25.5199	-0.000999	-0.024
37°25'	83231.7400	30.828569	3621.7075	0.009566	1.993
	245892.7943	-0.908309	25.4599	-0.000999	-0.024
37°26'	85081.4542	30.828657	3622.2814	0.009545	1.992
	245838.2958	-0.908657	25.4000	-0.000999	-0.024
37°27'	86931.1736	30.828744	3622.8542	0.009525	1.991
	245783.7764	-0.909004	25.3400	-0.000999	-0.024
37°28'	88780.8982	30.828831	3623.4257	0.009505	1.990
	245729.2362	-0.909352	25.2801	-0.000999	-0.024
37°29'	90630.6280	30.828918	3623.9959	0.009484	1.989
	245674.6750	-0.909699	25.2202	-0.000998	-0.024
37°30'	92480.3631	30.829005	3624.5650	0.009464	1.988
	245620.0931	-0.910047	25.1603	-0.000998	-0.024
37°31'	94330.1034	30.829093	3625.1328	0.009443	1.987
	245565.4903	-0.910394	25.1004	-0.000998	-0.024
37°32'	96179.8490	30.829180	3625.6994	0.009423	1.986
	245510.8666	-0.910742	25.0405	-0.000998	-0.024
37°33'	98029.5998	30.829267	3626.2648	0.009402	1.986
	245456.2221	-0.911089	24.9807	-0.000997	-0.024
37°34'	99879.3558	30.829354	3626.8289	0.009382	1.985
	245401.5567	-0.911436	24.9208	-0.000997	-0.024
37°35'	101729.1171	30.829441	3627.3919	0.009362	1.984
	245346.8706	-0.911783	24.8610	-0.000997	-0.024
37°36'	103578.8835	30.829529	3627.9536	0.009341	1.983
	245292.1636	-0.912130	24.8012	-0.000997	-0.024
37°37'	105428.6553	30.829616	3628.5140	0.009321	1.982
	245237.4357	-0.912477	24.7414	-0.000996	-0.024
37°38'	107278.4322	30.829703	3629.0733	0.009300	1.981
	245182.6871	-0.912824	24.6816	-0.000996	-0.024
37°39'	109128.2144	30.829791	3629.6313	0.009280	1.980
	245127.9176	-0.913171	24.6218	-0.000996	-0.024
37°40'	110978.0019	30.829878	3630.1881	0.009259	1.979
	245073.1274	-0.913518	24.5621	-0.000996	-0.024
37°41'	112827.7946	30.829965	3630.7436	0.009239	1.978
	245018.3163	-0.913865	24.5023	-0.000996	-0.024
37°42'	114677.5925	30.830053	3631.2980	0.009218	1.977
	244963.4844	-0.914211	24.4426	-0.000995	-0.024
37°43'	116527.3956	30.830140	3631.8511	0.009198	1.976
	244908.6318	-0.914558	24.3829	-0.000995	-0.024
37°44'	118377.2041	30.830228	3632.4030	0.009178	1.975
	244853.7583	-0.914904	24.3232	-0.000995	-0.024
37°45'	120227.0177	30.830315	3632.9536	0.009157	1.975
	244798.8641	-0.915251	24.2635	-0.000995	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°46'	122076.8366	30.830402	3633.5030	0.009137	1.974
	244743.9490	-0.915597	24.2038	-0.000994	-0.024
37°47'	123926.6607	30.830490	3634.0512	0.009116	1.973
	244689.0132	-0.915943	24.1441	-0.000994	-0.024
37°48'	125776.4901	30.830577	3634.5982	0.009096	1.972
	244634.0566	-0.916289	24.0845	-0.000994	-0.024
37°49'	127626.3248	30.830665	3635.1439	0.009075	1.971
	244579.0793	-0.916635	24.0248	-0.000994	-0.024
37°50'	129476.1646	30.830752	3635.6885	0.009055	1.970
	244524.0812	-0.916981	23.9652	-0.000993	-0.024
37°51'	131326.0098	30.830840	3636.2317	0.009034	1.969
	244469.0623	-0.917327	23.9056	-0.000993	-0.024
37°52'	133175.8602	30.830927	3636.7738	0.009014	1.968
	244414.0227	-0.917673	23.8460	-0.000993	-0.024
37°53'	135025.7158	30.831015	3637.3146	0.008993	1.967
	244358.9623	-0.918019	23.7865	-0.000993	-0.025
37°54'	136875.5767	30.831102	3637.8542	0.008973	1.966
	244303.8812	-0.918365	23.7269	-0.000992	-0.025
37°55'	138725.4428	30.831190	3638.3926	0.008952	1.965
	244248.7793	-0.918710	23.6673	-0.000992	-0.025
37°56'	140575.3142	30.831277	3638.9297	0.008932	1.964
	244193.6567	-0.919056	23.6078	-0.000992	-0.025
37°57'	142425.1908	30.831365	3639.4656	0.008911	1.963
	244138.5133	-0.919401	23.5483	-0.000992	-0.025
37°58'	144275.0727	30.831452	3640.0003	0.008891	1.963
	244083.3493	-0.919747	23.4888	-0.000991	-0.025
37°59'	146124.9598	30.831540	3640.5337	0.008870	1.962
	244028.1645	-0.920092	23.4293	-0.000991	-0.025
38° 0'	147974.8522	30.831628	3641.0659	0.008850	1.961
	243972.9590	-0.920437	23.3698	-0.000991	-0.025
38° 1'	149824.7499	30.831715	3641.5969	0.008829	1.960
	243917.7327	-0.920782	23.3104	-0.000991	-0.025
38° 2'	151674.6528	30.831803	3642.1267	0.008809	1.959
	243862.4858	-0.921127	23.2509	-0.000990	-0.025
38° 3'	153524.5610	30.831891	3642.6552	0.008788	1.958
	243807.2181	-0.921472	23.1915	-0.000990	-0.025
38° 4'	155374.4744	30.831978	3643.1825	0.008768	1.957
	243751.9298	-0.921817	23.1321	-0.000990	-0.025
38° 5'	157224.3931	30.832066	3643.7085	0.008747	1.956
	243696.6208	-0.922162	23.0727	-0.000990	-0.025
38° 6'	159074.3171	30.832154	3644.2334	0.008727	1.955
	243641.2910	-0.922507	23.0133	-0.000989	-0.025
38° 7'	160924.2463	30.832241	3644.7569	0.008706	1.954
	243585.9406	-0.922852	22.9539	-0.000989	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38° 8'	162774.1807	30.832329	3645.2793	0.008685	1.953
	243530.5695	-0.923196	22.8946	-0.000989	-0.025
38° 9'	164624.1205	30.832417	3645.8004	0.008665	1.952
	243475.1777	-0.923541	22.8352	-0.000989	-0.025
38°10'	166474.0655	30.832504	3646.3203	0.008644	1.951
	243419.7653	-0.923885	22.7759	-0.000988	-0.025
38°11'	168324.0157	30.832592	3646.8390	0.008624	1.950
	243364.3321	-0.924230	22.7166	-0.000988	-0.025
38°12'	170173.9713	30.832680	3647.3564	0.008603	1.949
	243308.8783	-0.924574	22.6573	-0.000988	-0.025
38°13'	172023.9321	30.832768	3647.8726	0.008583	1.948
	243253.4039	-0.924918	22.5980	-0.000988	-0.025
38°14'	173873.8981	30.832855	3648.3876	0.008562	1.947
	243197.9088	-0.925263	22.5388	-0.000987	-0.025
38°15'	175723.8695	30.832943	3648.9013	0.008542	1.946
	243142.3930	-0.925607	22.4795	-0.000987	-0.025
38°16'	177573.8461	30.833031	3649.4138	0.008521	1.946
	243086.8566	-0.925951	22.4203	-0.000987	-0.025
38°17'	179423.8279	30.833119	3649.9251	0.008500	1.945
	243031.2996	-0.926295	22.3611	-0.000987	-0.025
38°18'	181273.8150	30.833207	3650.4351	0.008480	1.944
	242975.7219	-0.926639	22.3019	-0.000986	-0.025
38°19'	183123.8075	30.833295	3650.9439	0.008459	1.943
	242920.1236	-0.926982	22.2427	-0.000986	-0.025
38°20'	184973.8051	30.833382	3651.4515	0.008439	1.942
	242864.5046	-0.927326	22.1835	-0.000986	-0.025
38°21'	186823.8081	30.833470	3651.9578	0.008418	1.941
	242808.8650	-0.927670	22.1244	-0.000986	-0.025
38°22'	188673.8163	30.833558	3652.4629	0.008398	1.940
	242753.2048	-0.928013	22.0652	-0.000985	-0.025
38°23'	190523.8298	30.833646	3652.9667	0.008377	1.939
	242697.5240	-0.928357	22.0061	-0.000985	-0.025
38°24'	192373.8485	30.833734	3653.4694	0.008356	1.938
	242641.8226	-0.928700	21.9470	-0.000985	-0.025
38°25'	194223.8726	30.833822	3653.9707	0.008336	1.937
	242586.1006	-0.929044	21.8879	-0.000985	-0.025
38°26'	196073.9019	30.833910	3654.4709	0.008315	1.936
	242530.3580	-0.929387	21.8288	-0.000984	-0.025
38°27'	197923.9365	30.833998	3654.9698	0.008295	1.935
	242474.5948	-0.929730	21.7698	-0.000984	-0.025
38°28'	199773.9764	30.834086	3655.4675	0.008274	1.934
	242418.8110	-0.930073	21.7107	-0.000984	-0.025
38°29'	201624.0215	30.834174	3655.9639	0.008253	1.933
	242363.0066	-0.930416	21.6517	-0.000984	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°30'	203474.0719	30.834262	3656.4591	0.008233	1.932
	242307.1816	-0.930759	21.5927	-0.000983	-0.025
38°31'	205324.1276	30.834350	3656.9531	0.008212	1.931
	242251.3360	-0.931102	21.5337	-0.000983	-0.025
38°32'	207174.1886	30.834438	3657.4458	0.008192	1.930
	242195.4699	-0.931445	21.4747	-0.000983	-0.026
38°33'	209024.2549	30.834526	3657.9373	0.008171	1.929
	242139.5832	-0.931788	21.4157	-0.000982	-0.026
38°34'	210874.3264	30.834614	3658.4276	0.008150	1.928
	242083.6759	-0.932130	21.3568	-0.000982	-0.026
38°35'	212724.4033	30.834702	3658.9166	0.008130	1.927
	242027.7481	-0.932473	21.2978	-0.000982	-0.026
38°36'	214574.4854	30.834790	3659.4044	0.008109	1.926
	241971.7997	-0.932816	21.2389	-0.000982	-0.026
38°37'	216424.5728	30.834878	3659.8910	0.008089	1.925
	241915.8308	-0.933158	21.1800	-0.000981	-0.026
38°38'	218274.6655	30.834966	3660.3763	0.008068	1.924
	241859.8413	-0.933500	21.1211	-0.000981	-0.026
38°39'	220124.7634	30.835054	3660.8604	0.008047	1.923
	241803.8313	-0.933843	21.0623	-0.000981	-0.026
38°40'	221974.8667	30.835142	3661.3432	0.008027	1.922
	241747.8007	-0.934185	21.0034	-0.000981	-0.026
38°41'	223824.9752	30.835230	3661.8248	0.008006	1.921
	241691.7497	-0.934527	20.9446	-0.000980	-0.026
38°42'	225675.0890	30.835319	3662.3052	0.007985	1.920
	241635.6780	-0.934869	20.8858	-0.000980	-0.026
38°43'	227525.2081	30.835407	3662.7843	0.007965	1.919
	241579.5859	-0.935211	20.8270	-0.000980	-0.026
38°44'	229375.3325	30.835495	3663.2622	0.007944	1.918
	241523.4732	-0.935553	20.7682	-0.000980	-0.026
38°45'	231225.4622	30.835583	3663.7388	0.007923	1.917
	241467.3401	-0.935895	20.7094	-0.000979	-0.026
38°46'	233075.5972	30.835671	3664.2142	0.007903	1.916
	241411.1864	-0.936236	20.6507	-0.000979	-0.026
38°47'	234925.7375	30.835759	3664.6884	0.007882	1.915
	241355.0122	-0.936578	20.5919	-0.000979	-0.026
38°48'	236775.8830	30.835848	3665.1613	0.007862	1.914
	241298.8175	-0.936920	20.5332	-0.000978	-0.026
38°49'	238626.0339	30.835936	3665.6330	0.007841	1.913
	241242.6024	-0.937261	20.4745	-0.000978	-0.026
38°50'	240476.1900	30.836024	3666.1035	0.007820	1.912
	241186.3667	-0.937603	20.4158	-0.000978	-0.026
38°51'	242326.3515	30.836112	3666.5727	0.007800	1.911
	241130.1105	-0.937944	20.3571	-0.000978	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°52'	244176.5182	30.836200	3667.0407	0.007779	1.910
	241073.8339	-0.938285	20.2985	-0.000977	-0.026
38°53'	246026.6902	30.836289	3667.5074	0.007758	1.909
	241017.5368	-0.938626	20.2398	-0.000977	-0.026
38°54'	247876.8676	30.836377	3667.9729	0.007738	1.908
	240961.2192	-0.938968	20.1812	-0.000977	-0.026
38°55'	249727.0502	30.836465	3668.4372	0.007717	1.907
	240904.8811	-0.939309	20.1226	-0.000976	-0.026
38°56'	251577.2381	30.836554	3668.9002	0.007696	1.906
	240848.5226	-0.939650	20.0640	-0.000976	-0.026
38°57'	253427.4313	30.836642	3669.3619	0.007676	1.905
	240792.1437	-0.939990	20.0055	-0.000976	-0.026
38°58'	255277.6298	30.836730	3669.8225	0.007655	1.904
	240735.7442	-0.940331	19.9469	-0.000976	-0.026
38°59'	257127.8336	30.836819	3670.2818	0.007634	1.903
	240679.3244	-0.940672	19.8884	-0.000975	-0.026
39° 0'	258978.0427	30.836907	3670.7398	0.007613	1.902
	240622.8840	-0.941013	19.8298	-0.000975	-0.026
39° 1'	260828.2572	30.836995	3671.1966	0.007593	1.901
	240566.4233	-0.941353	19.7713	-0.000975	-0.026
39° 2'	262678.4769	30.837084	3671.6522	0.007572	1.900
	240509.9421	-0.941694	19.7129	-0.000974	-0.026
39° 3'	264528.7019	30.837172	3672.1065	0.007551	1.899
	240453.4405	-0.942034	19.6544	-0.000974	-0.026
39° 4'	266378.9322	30.837260	3672.5596	0.007531	1.898
	240396.9184	-0.942375	19.5959	-0.000974	-0.026
39° 5'	268229.1678	30.837349	3673.0115	0.007510	1.897
	240340.3759	-0.942715	19.5375	-0.000974	-0.026
39° 6'	270079.4087	30.837437	3673.4621	0.007489	1.896
	240283.8130	-0.943055	19.4791	-0.000973	-0.026
39° 7'	271929.6550	30.837526	3673.9114	0.007469	1.895
	240227.2297	-0.943395	19.4207	-0.000973	-0.026
39° 8'	273779.9065	30.837614	3674.3595	0.007448	1.894
	240170.6260	-0.943735	19.3623	-0.000973	-0.026
39° 9'	275630.1634	30.837702	3674.8064	0.007427	1.893
	240114.0019	-0.944075	19.3039	-0.000972	-0.026
39°10'	277480.4255	30.837791	3675.2520	0.007407	1.892
	240057.3574	-0.944415	19.2456	-0.000972	-0.026
39°11'	279330.6929	30.837879	3675.6964	0.007386	1.891
	240000.6925	-0.944755	19.1873	-0.000972	-0.026
39°12'	281180.9657	30.837968	3676.1396	0.007365	1.890
	239944.0072	-0.945095	19.1289	-0.000972	-0.026
39°13'	283031.2438	30.838056	3676.5815	0.007344	1.889
	239887.3015	-0.945434	19.0706	-0.000971	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°14'	284881.5272	30.838145	3677.0221	0.007324	1.888
	239830.5755	-0.945774	19.0124	-0.000971	-0.026
39°15'	286731.8158	30.838233	3677.4616	0.007303	1.887
	239773.8291	-0.946113	18.9541	-0.000971	-0.026
39°16'	288582.1098	30.838322	3677.8997	0.007282	1.886
	239717.0623	-0.946453	18.8959	-0.000970	-0.027
39°17'	290432.4092	30.838410	3678.3367	0.007261	1.885
	239660.2751	-0.946792	18.8376	-0.000970	-0.027
39°18'	292282.7138	30.838499	3678.7724	0.007241	1.884
	239603.4676	-0.947131	18.7794	-0.000970	-0.027
39°19'	294133.0237	30.838587	3679.2068	0.007220	1.883
	239546.6397	-0.947471	18.7212	-0.000970	-0.027
39°20'	295983.3390	30.838676	3679.6400	0.007199	1.882
	239489.7915	-0.947810	18.6631	-0.000969	-0.027
39°21'	297833.6595	30.838765	3680.0720	0.007179	1.881
	239432.9229	-0.948149	18.6049	-0.000969	-0.027
39°22'	299683.9854	30.838853	3680.5027	0.007158	1.880
	239376.0340	-0.948488	18.5468	-0.000969	-0.027
39°23'	301534.3166	30.838942	3680.9321	0.007137	1.879
	239319.1247	-0.948826	18.4887	-0.000968	-0.027
39°24'	303384.6531	30.839030	3681.3604	0.007116	1.878
	239262.1951	-0.949165	18.4306	-0.000968	-0.027
39°25'	305234.9949	30.839119	3681.7873	0.007096	1.877
	239205.2452	-0.949504	18.3725	-0.000968	-0.027
39°26'	307085.3420	30.839208	3682.2131	0.007075	1.876
	239148.2750	-0.949843	18.3144	-0.000967	-0.027
39°27'	308935.6945	30.839296	3682.6375	0.007054	1.875
	239091.2844	-0.950181	18.2564	-0.000967	-0.027
39°28'	310786.0523	30.839385	3683.0608	0.007033	1.874
	239034.2735	-0.950520	18.1983	-0.000967	-0.027
39°29'	312636.4154	30.839474	3683.4828	0.007013	1.873
	238977.2424	-0.950858	18.1403	-0.000967	-0.027
39°30'	314486.7838	30.839562	3683.9035	0.006992	1.872
	238920.1909	-0.951196	18.0823	-0.000966	-0.027
39°31'	316337.1575	30.839651	3684.3230	0.006971	1.871
	238863.1191	-0.951535	18.0244	-0.000966	-0.027
39°32'	318187.5366	30.839740	3684.7413	0.006950	1.870
	238806.0270	-0.951873	17.9664	-0.000966	-0.027
39°33'	320037.9209	30.839828	3685.1583	0.006929	1.869
	238748.9146	-0.952211	17.9085	-0.000965	-0.027
39°34'	321888.3106	30.839917	3685.5741	0.006909	1.868
	238691.7820	-0.952549	17.8505	-0.000965	-0.027
39°35'	323738.7056	30.840006	3685.9886	0.006888	1.867
	238634.6290	-0.952887	17.7926	-0.000965	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°36'	325589.1060	30.840094	3686.4019	0.006867	1.865
	238577.4558	-0.953225	17.7348	-0.000964	-0.027
39°37'	327439.5116	30.840183	3686.8139	0.006846	1.864
	238520.2623	-0.953563	17.6769	-0.000964	-0.027
39°38'	329289.9226	30.840272	3687.2247	0.006826	1.863
	238463.0486	-0.953900	17.6190	-0.000964	-0.027
39°39'	331140.3389	30.840361	3687.6342	0.006805	1.862
	238405.8146	-0.954238	17.5612	-0.000963	-0.027
39°40'	332990.7606	30.840449	3688.0425	0.006784	1.861
	238348.5603	-0.954575	17.5034	-0.000963	-0.027
39°41'	334841.1876	30.840538	3688.4495	0.006763	1.860
	238291.2858	-0.954913	17.4456	-0.000963	-0.027
39°42'	336691.6198	30.840627	3688.8553	0.006742	1.859
	238233.9910	-0.955250	17.3878	-0.000963	-0.027
39°43'	338542.0575	30.840716	3689.2599	0.006722	1.858
	238176.6760	-0.955588	17.3301	-0.000962	-0.027
39°44'	340392.5004	30.840805	3689.6632	0.006701	1.857
	238119.3407	-0.955925	17.2723	-0.000962	-0.027
39°45'	342242.9487	30.840893	3690.0652	0.006680	1.856
	238061.9853	-0.956262	17.2146	-0.000962	-0.027
39°46'	344093.4023	30.840982	3690.4660	0.006659	1.855
	238004.6095	-0.956599	17.1569	-0.000961	-0.027
39°47'	345943.8612	30.841071	3690.8656	0.006638	1.854
	237947.2136	-0.956936	17.0993	-0.000961	-0.027
39°48'	347794.3255	30.841160	3691.2639	0.006618	1.853
	237889.7974	-0.957273	17.0416	-0.000961	-0.027
39°49'	349644.7951	30.841249	3691.6610	0.006597	1.852
	237832.3611	-0.957610	16.9840	-0.000960	-0.027
39°50'	351495.2700	30.841338	3692.0568	0.006576	1.851
	237774.9045	-0.957947	16.9263	-0.000960	-0.027
39°51'	353345.7503	30.841427	3692.4513	0.006555	1.850
	237717.4277	-0.958283	16.8687	-0.000960	-0.027
39°52'	355196.2359	30.841515	3692.8446	0.006534	1.849
	237659.9307	-0.958620	16.8111	-0.000959	-0.027
39°53'	357046.7268	30.841604	3693.2367	0.006514	1.848
	237602.4135	-0.958956	16.7536	-0.000959	-0.027
39°54'	358897.2231	30.841693	3693.6275	0.006493	1.847
	237544.8761	-0.959293	16.6960	-0.000959	-0.027
39°55'	360747.7247	30.841782	3694.0171	0.006472	1.845
	237487.3186	-0.959629	16.6385	-0.000958	-0.027
39°56'	362598.2316	30.841871	3694.4054	0.006451	1.844
	237429.7408	-0.959965	16.5810	-0.000958	-0.027
39°57'	364448.7438	30.841960	3694.7925	0.006430	1.843
	237372.1429	-0.960302	16.5235	-0.000958	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°58'	366299.2615	30.842049	3695.1783	0.006409	1.842
	237314.5248	-0.960638	16.4660	-0.000958	-0.027
39°59'	368149.7844	30.842138	3695.5629	0.006389	1.841
	237256.8865	-0.960974	16.4086	-0.000957	-0.027
40° 0'	370000.3127	30.842227	3695.9462	0.006368	1.840
	237199.2281	-0.961310	16.3511	-0.000957	-0.027
40° 1'	371850.8463	30.842316	3696.3283	0.006347	1.839
	237141.5495	-0.961646	16.2937	-0.000957	-0.027
40° 2'	373701.3852	30.842405	3696.7091	0.006326	1.838
	237083.8508	-0.961981	16.2363	-0.000956	-0.027
40° 3'	375551.9295	30.842494	3697.0886	0.006305	1.837
	237026.1319	-0.962317	16.1790	-0.000956	-0.027
40° 4'	377402.4792	30.842583	3697.4670	0.006284	1.836
	236968.3928	-0.962653	16.1216	-0.000956	-0.027
40° 5'	379253.0341	30.842672	3697.8440	0.006264	1.835
	236910.6337	-0.962988	16.0643	-0.000955	-0.027
40° 6'	381103.5944	30.842761	3698.2199	0.006243	1.834
	236852.8544	-0.963324	16.0069	-0.000955	-0.028
40° 7'	382954.1601	30.842850	3698.5944	0.006222	1.833
	236795.0549	-0.963659	15.9496	-0.000955	-0.028
40° 8'	384804.7311	30.842939	3698.9677	0.006201	1.832
	236737.2354	-0.963995	15.8924	-0.000954	-0.028
40° 9'	386655.3074	30.843028	3699.3398	0.006180	1.830
	236679.3957	-0.964330	15.8351	-0.000954	-0.028
40°10'	388505.8891	30.843117	3699.7106	0.006159	1.829
	236621.5359	-0.964665	15.7779	-0.000954	-0.028
40°11'	390356.4761	30.843206	3700.0802	0.006139	1.828
	236563.6560	-0.965000	15.7206	-0.000953	-0.028
40°12'	392207.0685	30.843295	3700.4485	0.006118	1.827
	236505.7560	-0.965335	15.6634	-0.000953	-0.028
40°13'	394057.6662	30.843384	3700.8156	0.006097	1.826
	236447.8359	-0.965670	15.6063	-0.000953	-0.028
40°14'	395908.2693	30.843473	3701.1814	0.006076	1.825
	236389.8957	-0.966005	15.5491	-0.000952	-0.028
40°15'	397758.8777	30.843563	3701.5459	0.006055	1.824
	236331.9354	-0.966340	15.4920	-0.000952	-0.028
40°16'	399609.4914	30.843652	3701.9092	0.006034	1.823
	236273.9550	-0.966674	15.4348	-0.000952	-0.028
40°17'	401460.1105	30.843741	3702.2713	0.006013	1.822
	236215.9545	-0.967009	15.3777	-0.000951	-0.028
40°18'	403310.7350	30.843830	3702.6321	0.005993	1.821
	236157.9340	-0.967344	15.3207	-0.000951	-0.028
40°19'	405161.3648	30.843919	3702.9916	0.005972	1.820
	236099.8933	-0.967678	15.2636	-0.000951	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°20'	407011.9999	30.844008	3703.3499	0.005951	1.819
	236041.8326	-0.968012	15.2066	-0.000950	-0.028
40°21'	408862.6404	30.844097	3703.7070	0.005930	1.817
	235983.7519	-0.968347	15.1495	-0.000950	-0.028
40°22'	410713.2863	30.844187	3704.0628	0.005909	1.816
	235925.6511	-0.968681	15.0925	-0.000950	-0.028
40°23'	412563.9374	30.844276	3704.4173	0.005888	1.815
	235867.5302	-0.969015	15.0356	-0.000949	-0.028
40°24'	414414.5940	30.844365	3704.7706	0.005867	1.814
	235809.3893	-0.969349	14.9786	-0.000949	-0.028
40°25'	416265.2559	30.844454	3705.1226	0.005846	1.813
	235751.2284	-0.969683	14.9216	-0.000949	-0.028
40°26'	418115.9231	30.844543	3705.4734	0.005825	1.812
	235693.0474	-0.970017	14.8647	-0.000948	-0.028
40°27'	419966.5957	30.844633	3705.8229	0.005805	1.811
	235634.8463	-0.970351	14.8078	-0.000948	-0.028
40°28'	421817.2737	30.844722	3706.1712	0.005784	1.810
	235576.6253	-0.970685	14.7509	-0.000948	-0.028
40°29'	423667.9570	30.844811	3706.5182	0.005763	1.809
	235518.3842	-0.971018	14.6941	-0.000947	-0.028
40°30'	425518.6456	30.844900	3706.8640	0.005742	1.808
	235460.1231	-0.971352	14.6372	-0.000947	-0.028
40°31'	427369.3397	30.844989	3707.2085	0.005721	1.807
	235401.8420	-0.971685	14.5804	-0.000947	-0.028
40°32'	429220.0390	30.845079	3707.5518	0.005700	1.805
	235343.5409	-0.972019	14.5236	-0.000946	-0.028
40°33'	431070.7437	30.845168	3707.8938	0.005679	1.804
	235285.2197	-0.972352	14.4668	-0.000946	-0.028
40°34'	432921.4538	30.845257	3708.2345	0.005658	1.803
	235226.8786	-0.972685	14.4101	-0.000946	-0.028
40°35'	434772.1693	30.845347	3708.5740	0.005637	1.802
	235168.5175	-0.973019	14.3533	-0.000945	-0.028
40°36'	436622.8900	30.845436	3708.9123	0.005617	1.801
	235110.1364	-0.973352	14.2966	-0.000945	-0.028
40°37'	438473.6162	30.845525	3709.2493	0.005596	1.800
	235051.7353	-0.973685	14.2399	-0.000945	-0.028
40°38'	440324.3477	30.845614	3709.5850	0.005575	1.799
	234993.3142	-0.974018	14.1832	-0.000944	-0.028
40°39'	442175.0846	30.845704	3709.9195	0.005554	1.798
	234934.8731	-0.974351	14.1266	-0.000944	-0.028
40°40'	444025.8268	30.845793	3710.2527	0.005533	1.797
	234876.4121	-0.974683	14.0700	-0.000944	-0.028
40°41'	445876.5744	30.845882	3710.5847	0.005512	1.795
	234817.9311	-0.975016	14.0133	-0.000943	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°42'	447727.3273	30.845972	3710.9154	0.005491	1.794
	234759.4301	-0.975349	13.9567	-0.000943	-0.028
40°43'	449578.0856	30.846061	3711.2449	0.005470	1.793
	234700.9092	-0.975681	13.9002	-0.000943	-0.028
40°44'	451428.8493	30.846150	3711.5731	0.005449	1.792
	234642.3683	-0.976014	13.8436	-0.000942	-0.028
40°45'	453279.6183	30.846240	3711.9000	0.005428	1.791
	234583.8075	-0.976346	13.7871	-0.000942	-0.028
40°46'	455130.3927	30.846329	3712.2257	0.005407	1.790
	234525.2268	-0.976678	13.7306	-0.000942	-0.028
40°47'	456981.1725	30.846419	3712.5502	0.005386	1.789
	234466.6261	-0.977011	13.6741	-0.000941	-0.028
40°48'	458831.9576	30.846508	3712.8734	0.005365	1.788
	234408.0054	-0.977343	13.6176	-0.000941	-0.028
40°49'	460682.7481	30.846597	3713.1953	0.005345	1.787
	234349.3649	-0.977675	13.5612	-0.000940	-0.028
40°50'	462533.5439	30.846687	3713.5160	0.005324	1.785
	234290.7044	-0.978007	13.5047	-0.000940	-0.028
40°51'	464384.3451	30.846776	3713.8354	0.005303	1.784
	234232.0240	-0.978339	13.4483	-0.000940	-0.028
40°52'	466235.1517	30.846866	3714.1535	0.005282	1.783
	234173.3237	-0.978670	13.3919	-0.000939	-0.028
40°53'	468085.9636	30.846955	3714.4704	0.005261	1.782
	234114.6034	-0.979002	13.3356	-0.000939	-0.028
40°54'	469936.7809	30.847044	3714.7861	0.005240	1.781
	234055.8633	-0.979334	13.2792	-0.000939	-0.028
40°55'	471787.6036	30.847134	3715.1005	0.005219	1.780
	233997.1033	-0.979665	13.2229	-0.000938	-0.028
40°56'	473638.4316	30.847223	3715.4136	0.005198	1.779
	233938.3234	-0.979997	13.1666	-0.000938	-0.028
40°57'	475489.2650	30.847313	3715.7255	0.005177	1.778
	233879.5235	-0.980328	13.1103	-0.000938	-0.028
40°58'	477340.1038	30.847402	3716.0361	0.005156	1.777
	233820.7038	-0.980660	13.0541	-0.000937	-0.028
40°59'	479190.9479	30.847492	3716.3455	0.005135	1.775
	233761.8643	-0.980991	12.9978	-0.000937	-0.028
41° 0'	481041.7974	30.847581	3716.6536	0.005114	1.774
	233703.0048	-0.981322	12.9416	-0.000937	-0.028
41° 1'	482892.6523	30.847671	3716.9604	0.005093	1.773
	233644.1255	-0.981653	12.8854	-0.000936	-0.028
41° 2'	484743.5126	30.847760	3717.2660	0.005072	1.772
	233585.2263	-0.981984	12.8292	-0.000936	-0.028
41° 3'	486594.3782	30.847850	3717.5704	0.005051	1.771
	233526.3073	-0.982315	12.7731	-0.000936	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41° 4'	488445.2492	30.847939	3717.8734	0.005030	1.770
	233467.3684	-0.982646	12.7169	-0.000935	-0.028
41° 5'	490296.1255	30.848029	3718.1753	0.005009	1.769
	233408.4096	-0.982977	12.6608	-0.000935	-0.029
41° 6'	492147.0073	30.848118	3718.4758	0.004988	1.767
	233349.4310	-0.983307	12.6048	-0.000934	-0.029
41° 7'	493997.8944	30.848208	3718.7751	0.004967	1.766
	233290.4326	-0.983638	12.5487	-0.000934	-0.029
41° 8'	495848.7868	30.848297	3719.0732	0.004947	1.765
	233231.4143	-0.983968	12.4926	-0.000934	-0.029
41° 9'	497699.6847	30.848387	3719.3700	0.004926	1.764
	233172.3762	-0.984299	12.4366	-0.000933	-0.029
41°10'	499550.5879	30.848477	3719.6655	0.004905	1.763
	233113.3182	-0.984629	12.3806	-0.000933	-0.029
41°11'	501401.4965	30.848566	3719.9598	0.004884	1.762
	233054.2405	-0.984960	12.3246	-0.000933	-0.029
41°12'	503252.4105	30.848656	3720.2528	0.004863	1.761
	232995.1429	-0.985290	12.2687	-0.000932	-0.029
41°13'	505103.3298	30.848745	3720.5446	0.004842	1.760
	232936.0255	-0.985620	12.2127	-0.000932	-0.029
41°14'	506954.2545	30.848835	3720.8351	0.004821	1.758
	232876.8883	-0.985950	12.1568	-0.000932	-0.029
41°15'	508805.1846	30.848924	3721.1243	0.004800	1.757
	232817.7313	-0.986280	12.1009	-0.000931	-0.029
41°16'	510656.1201	30.849014	3721.4123	0.004779	1.756
	232758.5545	-0.986610	12.0451	-0.000931	-0.029
41°17'	512507.0609	30.849104	3721.6990	0.004758	1.755
	232699.3580	-0.986940	11.9892	-0.000930	-0.029
41°18'	514358.0071	30.849193	3721.9845	0.004737	1.754
	232640.1416	-0.987269	11.9334	-0.000930	-0.029
41°19'	516208.9587	30.849283	3722.2687	0.004716	1.753
	232580.9054	-0.987599	11.8776	-0.000930	-0.029
41°20'	518059.9157	30.849373	3722.5516	0.004695	1.752
	232521.6495	-0.987928	11.8218	-0.000929	-0.029
41°21'	519910.8781	30.849462	3722.8333	0.004674	1.750
	232462.3738	-0.988258	11.7660	-0.000929	-0.029
41°22'	521761.8458	30.849552	3723.1137	0.004653	1.749
	232403.0783	-0.988587	11.7103	-0.000929	-0.029
41°23'	523612.8189	30.849642	3723.3929	0.004632	1.748
	232343.7631	-0.988917	11.6546	-0.000928	-0.029
41°24'	525463.7974	30.849731	3723.6708	0.004611	1.747
	232284.4281	-0.989246	11.5989	-0.000928	-0.029
41°25'	527314.7813	30.849821	3723.9475	0.004590	1.746
	232225.0734	-0.989575	11.5432	-0.000928	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°26'	529165.7705	30.849911	3724.2229	0.004569	1.745
	232165.6989	-0.989904	11.4876	-0.000927	-0.029
41°27'	531016.7652	30.850000	3724.4970	0.004548	1.744
	232106.3046	-0.990233	11.4319	-0.000927	-0.029
41°28'	532867.7652	30.850090	3724.7699	0.004527	1.742
	232046.8907	-0.990562	11.3763	-0.000926	-0.029
41°29'	534718.7706	30.850180	3725.0415	0.004506	1.741
	231987.4569	-0.990891	11.3207	-0.000926	-0.029
41°30'	536569.7813	30.850269	3725.3118	0.004485	1.740
	231928.0035	-0.991219	11.2652	-0.000926	-0.029
41°31'	538420.7975	30.850359	3725.5809	0.004464	1.739
	231868.5303	-0.991548	11.2096	-0.000925	-0.029
41°32'	540271.8190	30.850449	3725.8488	0.004443	1.738
	231809.0375	-0.991877	11.1541	-0.000925	-0.029
41°33'	542122.8460	30.850538	3726.1153	0.004422	1.737
	231749.5249	-0.992205	11.0986	-0.000925	-0.029
41°34'	543973.8783	30.850628	3726.3806	0.004401	1.735
	231689.9926	-0.992533	11.0432	-0.000924	-0.029
41°35'	545824.9160	30.850718	3726.6447	0.004380	1.734
	231630.4406	-0.992862	10.9877	-0.000924	-0.029
41°36'	547675.9590	30.850808	3726.9075	0.004359	1.733
	231570.8688	-0.993190	10.9323	-0.000923	-0.029
41°37'	549527.0075	30.850897	3727.1690	0.004338	1.732
	231511.2774	-0.993518	10.8769	-0.000923	-0.029
41°38'	551378.0614	30.850987	3727.4293	0.004317	1.731
	231451.6663	-0.993846	10.8215	-0.000923	-0.029
41°39'	553229.1206	30.851077	3727.6883	0.004296	1.730
	231392.0356	-0.994174	10.7661	-0.000922	-0.029
41°40'	555080.1852	30.851167	3727.9460	0.004275	1.729
	231332.3851	-0.994502	10.7108	-0.000922	-0.029
41°41'	556931.2552	30.851257	3728.2025	0.004254	1.727
	231272.7150	-0.994830	10.6555	-0.000922	-0.029
41°42'	558782.3306	30.851346	3728.4577	0.004233	1.726
	231213.0252	-0.995158	10.6002	-0.000921	-0.029
41°43'	560633.4114	30.851436	3728.7117	0.004212	1.725
	231153.3157	-0.995485	10.5449	-0.000921	-0.029
41°44'	562484.4975	30.851526	3728.9644	0.004191	1.724
	231093.5866	-0.995813	10.4897	-0.000920	-0.029
41°45'	564335.5891	30.851616	3729.2158	0.004170	1.723
	231033.8378	-0.996140	10.4345	-0.000920	-0.029
41°46'	566186.6860	30.851705	3729.4660	0.004149	1.722
	230974.0694	-0.996468	10.3793	-0.000920	-0.029
41°47'	568037.7884	30.851795	3729.7149	0.004128	1.720
	230914.2813	-0.996795	10.3241	-0.000919	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°48'	569888.8961	30.851885	3729.9626	0.004107	1.719
	230854.4736	-0.997123	10.2689	-0.000919	-0.029
41°49'	571740.0092	30.851975	3730.2090	0.004086	1.718
	230794.6462	-0.997450	10.2138	-0.000918	-0.029
41°50'	573591.1277	30.852065	3730.4541	0.004065	1.717
	230734.7993	-0.997777	10.1587	-0.000918	-0.029
41°51'	575442.2516	30.852155	3730.6980	0.004043	1.716
	230674.9327	-0.998104	10.1036	-0.000918	-0.029
41°52'	577293.3809	30.852244	3730.9406	0.004022	1.715
	230615.0464	-0.998431	10.0486	-0.000917	-0.029
41°53'	579144.5155	30.852334	3731.1819	0.004001	1.713
	230555.1406	-0.998758	9.9935	-0.000917	-0.029
41°54'	580995.6556	30.852424	3731.4220	0.003980	1.712
	230495.2151	-0.999084	9.9385	-0.000917	-0.029
41°55'	582846.8010	30.852514	3731.6609	0.003959	1.711
	230435.2701	-0.999411	9.8835	-0.000916	-0.029
41°56'	584697.9519	30.852604	3731.8984	0.003938	1.710
	230375.3054	-0.999738	9.8285	-0.000916	-0.029
41°57'	586549.1081	30.852694	3732.1347	0.003917	1.709
	230315.3212	-1.000064	9.7736	-0.000915	-0.029
41°58'	588400.2698	30.852784	3732.3697	0.003896	1.707
	230255.3173	-1.000391	9.7187	-0.000915	-0.029
41°59'	590251.4368	30.852874	3732.6035	0.003875	1.706
	230195.2939	-1.000717	9.6638	-0.000915	-0.029
42° 0'	592102.6092	30.852963	3732.8360	0.003854	1.705
	230135.2509	-1.001043	9.6089	-0.000914	-0.029
42° 1'	593953.7870	30.853053	3733.0673	0.003833	1.704
	230075.1883	-1.001369	9.5540	-0.000914	-0.029
42° 2'	595804.9702	30.853143	3733.2973	0.003812	1.703
	230015.1061	-1.001695	9.4992	-0.000913	-0.029
42° 3'	597656.1588	30.853233	3733.5260	0.003791	1.702
	229955.0044	-1.002021	9.4444	-0.000913	-0.029
42° 4'	599507.3528	30.853323	3733.7534	0.003770	1.700
	229894.8831	-1.002347	9.3896	-0.000913	-0.029
42° 5'	601358.5522	30.853413	3733.9796	0.003749	1.699
	229834.7423	-1.002673	9.3349	-0.000912	-0.029
42° 6'	603209.7570	30.853503	3734.2046	0.003728	1.698
	229774.5819	-1.002999	9.2801	-0.000912	-0.029
42° 7'	605060.9671	30.853593	3734.4282	0.003707	1.697
	229714.4020	-1.003325	9.2254	-0.000911	-0.029
42° 8'	606912.1827	30.853683	3734.6506	0.003686	1.696
	229654.2025	-1.003650	9.1707	-0.000911	-0.029
42° 9'	608763.4037	30.853773	3734.8718	0.003665	1.695
	229593.9835	-1.003976	9.1161	-0.000911	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°10'	610614.6301	30.853863	3735.0917	0.003644	1.693
	229533.7449	-1.004301	9.0614	-0.000910	-0.029
42°11'	612465.8618	30.853953	3735.3103	0.003623	1.692
	229473.4868	-1.004627	9.0068	-0.000910	-0.029
42°12'	614317.0990	30.854043	3735.5276	0.003601	1.691
	229413.2092	-1.004952	8.9522	-0.000909	-0.029
42°13'	616168.3416	30.854133	3735.7437	0.003580	1.690
	229352.9121	-1.005277	8.8977	-0.000909	-0.029
42°14'	618019.5895	30.854223	3735.9585	0.003559	1.689
	229292.5955	-1.005602	8.8431	-0.000909	-0.029
42°15'	619870.8429	30.854313	3736.1721	0.003538	1.687
	229232.2594	-1.005927	8.7886	-0.000908	-0.029
42°16'	621722.1016	30.854403	3736.3844	0.003517	1.686
	229171.9037	-1.006252	8.7341	-0.000908	-0.029
42°17'	623573.3658	30.854493	3736.5954	0.003496	1.685
	229111.5286	-1.006577	8.6796	-0.000907	-0.029
42°18'	625424.6353	30.854583	3736.8052	0.003475	1.684
	229051.1340	-1.006902	8.6252	-0.000907	-0.029
42°19'	627275.9103	30.854673	3737.0137	0.003454	1.683
	228990.7199	-1.007226	8.5708	-0.000907	-0.029
42°20'	629127.1907	30.854763	3737.2209	0.003433	1.681
	228930.2863	-1.007551	8.5164	-0.000906	-0.030
42°21'	630978.4764	30.854853	3737.4269	0.003412	1.680
	228869.8333	-1.007876	8.4620	-0.000906	-0.030
42°22'	632829.7676	30.854943	3737.6316	0.003391	1.679
	228809.3607	-1.008200	8.4076	-0.000905	-0.030
42°23'	634681.0641	30.855033	3737.8351	0.003370	1.678
	228748.8687	-1.008524	8.3533	-0.000905	-0.030
42°24'	636532.3661	30.855123	3738.0372	0.003349	1.677
	228688.3573	-1.008849	8.2990	-0.000905	-0.030
42°25'	638383.6735	30.855213	3738.2382	0.003328	1.675
	228627.8263	-1.009173	8.2447	-0.000904	-0.030
42°26'	640234.9862	30.855303	3738.4378	0.003306	1.674
	228567.2760	-1.009497	8.1905	-0.000904	-0.030
42°27'	642086.3044	30.855393	3738.6362	0.003285	1.673
	228506.7062	-1.009821	8.1362	-0.000903	-0.030
42°28'	643937.6280	30.855483	3738.8333	0.003264	1.672
	228446.1169	-1.010145	8.0820	-0.000903	-0.030
42°29'	645788.9569	30.855573	3739.0292	0.003243	1.671
	228385.5082	-1.010469	8.0278	-0.000903	-0.030
42°30'	647640.2913	30.855663	3739.2238	0.003222	1.669
	228324.8801	-1.010793	7.9737	-0.000902	-0.030
42°31'	649491.6311	30.855753	3739.4171	0.003201	1.668
	228264.2325	-1.011116	7.9195	-0.000902	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0022	0.0024

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°32'	651342.9763	30.855843	3739.6092	0.003180	1.667
	228203.5656	-1.011440	7.8654	-0.000901	-0.030
42°33'	653194.3269	30.855933	3739.8000	0.003159	1.666
	228142.8792	-1.011763	7.8114	-0.000901	-0.030
42°34'	655045.6829	30.856023	3739.9895	0.003138	1.665
	228082.1734	-1.012087	7.7573	-0.000901	-0.030
42°35'	656897.0443	30.856113	3740.1778	0.003117	1.663
	228021.4482	-1.012410	7.7033	-0.000900	-0.030
42°36'	658748.4111	30.856203	3740.3648	0.003096	1.662
	227960.7036	-1.012733	7.6492	-0.000900	-0.030
42°37'	660599.7833	30.856294	3740.5505	0.003075	1.661
	227899.9396	-1.013057	7.5953	-0.000899	-0.030
42°38'	662451.1609	30.856384	3740.7350	0.003053	1.660
	227839.1562	-1.013380	7.5413	-0.000899	-0.030
42°39'	664302.5439	30.856474	3740.9182	0.003032	1.659
	227778.3534	-1.013703	7.4874	-0.000899	-0.030
42°40'	666153.9323	30.856564	3741.1001	0.003011	1.657
	227717.5312	-1.014026	7.4334	-0.000898	-0.030
42°41'	668005.3262	30.856654	3741.2808	0.002990	1.656
	227656.6897	-1.014349	7.3796	-0.000898	-0.030
42°42'	669856.7254	30.856744	3741.4602	0.002969	1.655
	227595.8288	-1.014671	7.3257	-0.000897	-0.030
42°43'	671708.1300	30.856834	3741.6383	0.002948	1.654
	227534.9485	-1.014994	7.2719	-0.000897	-0.030
42°44'	673559.5401	30.856924	3741.8152	0.002927	1.653
	227474.0489	-1.015317	7.2180	-0.000896	-0.030
42°45'	675410.9556	30.857014	3741.9908	0.002906	1.651
	227413.1299	-1.015639	7.1643	-0.000896	-0.030
42°46'	677262.3764	30.857105	3742.1652	0.002885	1.650
	227352.1915	-1.015962	7.1105	-0.000896	-0.030
42°47'	679113.8027	30.857195	3742.3382	0.002864	1.649
	227291.2338	-1.016284	7.0568	-0.000895	-0.030
42°48'	680965.2344	30.857285	3742.5100	0.002842	1.648
	227230.2568	-1.016606	7.0030	-0.000895	-0.030
42°49'	682816.6715	30.857375	3742.6806	0.002821	1.647
	227169.2604	-1.016928	6.9494	-0.000894	-0.030
42°50'	684668.1140	30.857465	3742.8499	0.002800	1.645
	227108.2447	-1.017250	6.8957	-0.000894	-0.030
42°51'	686519.5619	30.857555	3743.0179	0.002779	1.644
	227047.2097	-1.017572	6.8421	-0.000894	-0.030
42°52'	688371.0152	30.857646	3743.1846	0.002758	1.643
	226986.1554	-1.017894	6.7884	-0.000893	-0.030
42°53'	690222.4740	30.857736	3743.3501	0.002737	1.642
	226925.0817	-1.018216	6.7348	-0.000893	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

ILLINOIS Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°54'	692073.9381	30.857826	3743.5143	0.002716	1.640
	226863.9887	-1.018538	6.6813	-0.000892	-0.030
42°55'	693925.4077	30.857916	3743.6773	0.002695	1.639
	226802.8764	-1.018860	6.6277	-0.000892	-0.030
42°56'	695776.8826	30.858006	3743.8390	0.002674	1.638
	226741.7449	-1.019181	6.5742	-0.000891	-0.030
42°57'	697628.3630	30.858096	3743.9994	0.002652	1.637
	226680.5940	-1.019503	6.5207	-0.000891	-0.030
42°58'	699479.8488	30.858187	3744.1585	0.002631	1.636
	226619.4238	-1.019824	6.4673	-0.000891	-0.030
42°59'	701331.3400	30.858277	3744.3164	0.002610	1.634
	226558.2344	-1.020146	6.4138	-0.000890	-0.030
43° 0'	703182.8366	30.858367	3744.4730	0.002589	1.633
	226497.0256	-1.020467	6.3604	-0.000890	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°40'	-0.0000	30.824663	1891.1192	0.019027	25.683
	40270.0416	0.144779	347.7669	0.004930	5.638
36°41'	1849.4798	30.824750	1892.2608	0.019035	25.707
	40278.7284	0.144898	348.0627	0.004937	5.647
36°42'	3698.9648	30.824836	1893.4029	0.019043	25.730
	40287.4223	0.145018	348.3589	0.004943	5.656
36°43'	5548.4549	30.824923	1894.5456	0.019052	25.753
	40296.1234	0.145138	348.6555	0.004950	5.664
36°44'	7397.9503	30.825009	1895.6886	0.019060	25.776
	40304.8316	0.145257	348.9525	0.004956	5.673
36°45'	9247.4508	30.825096	1896.8322	0.019068	25.800
	40313.5471	0.145377	349.2499	0.004963	5.682
36°46'	11096.9566	30.825182	1897.9763	0.019076	25.823
	40322.2697	0.145497	349.5477	0.004969	5.690
36°47'	12946.4675	30.825269	1899.1209	0.019084	25.846
	40330.9996	0.145617	349.8458	0.004976	5.699
36°48'	14795.9836	30.825355	1900.2659	0.019092	25.870
	40339.7366	0.145738	350.1444	0.004982	5.708
36°49'	16645.5049	30.825442	1901.4115	0.019101	25.893
	40348.4809	0.145858	350.4433	0.004989	5.717
36°50'	18495.0315	30.825529	1902.5575	0.019109	25.916
	40357.2323	0.145978	350.7427	0.004995	5.725
36°51'	20344.5632	30.825615	1903.7040	0.019117	25.940
	40365.9910	0.146099	351.0424	0.005002	5.734
36°52'	22194.1001	30.825702	1904.8511	0.019125	25.963
	40374.7569	0.146219	351.3425	0.005009	5.743
36°53'	24043.6422	30.825789	1905.9986	0.019134	25.987
	40383.5301	0.146340	351.6430	0.005015	5.752
36°54'	25893.1895	30.825875	1907.1466	0.019142	26.010
	40392.3105	0.146461	351.9439	0.005022	5.761
36°55'	27742.7420	30.825962	1908.2951	0.019150	26.034
	40401.0982	0.146582	352.2452	0.005028	5.770
36°56'	29592.2997	30.826049	1909.4441	0.019158	26.057
	40409.8931	0.146703	352.5469	0.005035	5.778
36°57'	31441.8626	30.826135	1910.5936	0.019167	26.081
	40418.6952	0.146824	352.8490	0.005041	5.787
36°58'	33291.4308	30.826222	1911.7436	0.019175	26.105
	40427.5047	0.146945	353.1515	0.005048	5.796
36°59'	35141.0041	30.826309	1912.8941	0.019183	26.128
	40436.3214	0.147066	353.4544	0.005055	5.805
37° 0'	36990.5826	30.826396	1914.0451	0.019191	26.152
	40445.1454	0.147188	353.7577	0.005061	5.814
37° 1'	38840.1663	30.826482	1915.1966	0.019200	26.176
	40453.9766	0.147309	354.0613	0.005068	5.823

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37° 2'	40689.7553	30.826569	1916.3485	0.019208	26.199
	40462.8152	0.147431	354.3654	0.005075	5.832
37° 3'	42539.3494	30.826656	1917.5010	0.019216	26.223
	40471.6611	0.147553	354.6699	0.005081	5.841
37° 4'	44388.9488	30.826743	1918.6540	0.019225	26.247
	40480.5142	0.147675	354.9748	0.005088	5.850
37° 5'	46238.5534	30.826830	1919.8075	0.019233	26.271
	40489.3747	0.147797	355.2801	0.005095	5.859
37° 6'	48088.1631	30.826916	1920.9615	0.019241	26.294
	40498.2425	0.147919	355.5858	0.005101	5.868
37° 7'	49937.7781	30.827003	1922.1160	0.019250	26.318
	40507.1176	0.148041	355.8918	0.005108	5.877
37° 8'	51787.3983	30.827090	1923.2710	0.019258	26.342
	40516.0001	0.148163	356.1983	0.005115	5.886
37° 9'	53637.0237	30.827177	1924.4265	0.019267	26.366
	40524.8899	0.148286	356.5052	0.005122	5.895
37°10'	55486.6544	30.827264	1925.5824	0.019275	26.390
	40533.7870	0.148408	356.8125	0.005128	5.904
37°11'	57336.2902	30.827351	1926.7389	0.019283	26.414
	40542.6915	0.148531	357.1202	0.005135	5.914
37°12'	59185.9313	30.827438	1927.8959	0.019292	26.438
	40551.6033	0.148653	357.4283	0.005142	5.923
37°13'	61035.5775	30.827525	1929.0534	0.019300	26.462
	40560.5225	0.148776	357.7369	0.005149	5.932
37°14'	62885.2290	30.827612	1930.2115	0.019309	26.486
	40569.4491	0.148899	358.0458	0.005155	5.941
37°15'	64734.8857	30.827699	1931.3700	0.019317	26.510
	40578.3830	0.149022	358.3551	0.005162	5.950
37°16'	66584.5477	30.827786	1932.5290	0.019325	26.534
	40587.3244	0.149145	358.6648	0.005169	5.959
37°17'	68434.2148	30.827873	1933.6885	0.019334	26.558
	40596.2731	0.149268	358.9750	0.005176	5.969
37°18'	70283.8872	30.827960	1934.8486	0.019342	26.582
	40605.2292	0.149392	359.2855	0.005183	5.978
37°19'	72133.5648	30.828047	1936.0091	0.019351	26.606
	40614.1927	0.149515	359.5965	0.005190	5.987
37°20'	73983.2476	30.828134	1937.1701	0.019359	26.630
	40623.1636	0.149639	359.9079	0.005196	5.996
37°21'	75832.9356	30.828221	1938.3317	0.019368	26.655
	40632.1419	0.149762	360.2197	0.005203	6.006
37°22'	77682.6289	30.828308	1939.4938	0.019376	26.679
	40641.1277	0.149886	360.5319	0.005210	6.015
37°23'	79532.3274	30.828395	1940.6563	0.019385	26.703
	40650.1208	0.150010	360.8445	0.005217	6.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°24'	81382.0311	30.828482	1941.8194	0.019393	26.727
	40659.1214	0.150134	361.1575	0.005224	6.034
37°25'	83231.7400	30.828569	1942.9830	0.019402	26.752
	40668.1295	0.150258	361.4709	0.005231	6.043
37°26'	85081.4542	30.828657	1944.1471	0.019410	26.776
	40677.1450	0.150382	361.7848	0.005238	6.053
37°27'	86931.1736	30.828744	1945.3118	0.019419	26.800
	40686.1679	0.150507	362.0991	0.005245	6.062
37°28'	88780.8982	30.828831	1946.4769	0.019427	26.825
	40695.1983	0.150631	362.4137	0.005252	6.071
37°29'	90630.6280	30.828918	1947.6425	0.019436	26.849
	40704.2362	0.150756	362.7288	0.005259	6.081
37°30'	92480.3631	30.829005	1948.8087	0.019445	26.873
	40713.2815	0.150880	363.0444	0.005266	6.090
37°31'	94330.1034	30.829093	1949.9754	0.019453	26.898
	40722.3344	0.151005	363.3603	0.005273	6.100
37°32'	96179.8490	30.829180	1951.1426	0.019462	26.922
	40731.3947	0.151130	363.6766	0.005280	6.109
37°33'	98029.5998	30.829267	1952.3103	0.019470	26.947
	40740.4625	0.151255	363.9934	0.005287	6.119
37°34'	99879.3558	30.829354	1953.4785	0.019479	26.971
	40749.5377	0.151380	364.3106	0.005294	6.128
37°35'	101729.1171	30.829441	1954.6472	0.019488	26.996
	40758.6205	0.151505	364.6282	0.005301	6.138
37°36'	103578.8835	30.829529	1955.8165	0.019496	27.020
	40767.7109	0.151630	364.9463	0.005308	6.147
37°37'	105428.6553	30.829616	1956.9862	0.019505	27.045
	40776.8087	0.151756	365.2647	0.005315	6.157
37°38'	107278.4322	30.829703	1958.1565	0.019513	27.070
	40785.9140	0.151881	365.5836	0.005322	6.167
37°39'	109128.2144	30.829791	1959.3273	0.019522	27.094
	40795.0269	0.152007	365.9029	0.005329	6.176
37°40'	110978.0019	30.829878	1960.4987	0.019531	27.119
	40804.1473	0.152133	366.2226	0.005336	6.186
37°41'	112827.7946	30.829965	1961.6705	0.019539	27.144
	40813.2753	0.152259	366.5428	0.005343	6.196
37°42'	114677.5925	30.830053	1962.8429	0.019548	27.168
	40822.4108	0.152385	366.8633	0.005350	6.205
37°43'	116527.3956	30.830140	1964.0157	0.019557	27.193
	40831.5539	0.152511	367.1843	0.005357	6.215
37°44'	118377.2041	30.830228	1965.1892	0.019565	27.218
	40840.7045	0.152637	367.5057	0.005364	6.225
37°45'	120227.0177	30.830315	1966.3631	0.019574	27.243
	40849.8628	0.152763	367.8276	0.005371	6.234

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°46'	122076.8366	30.830402	1967.5375	0.019583	27.268
	40859.0285	0.152890	368.1499	0.005378	6.244
37°47'	123926.6607	30.830490	1968.7125	0.019592	27.293
	40868.2019	0.153016	368.4726	0.005386	6.254
37°48'	125776.4901	30.830577	1969.8880	0.019600	27.317
	40877.3829	0.153143	368.7957	0.005393	6.264
37°49'	127626.3248	30.830665	1971.0640	0.019609	27.342
	40886.5714	0.153269	369.1193	0.005400	6.274
37°50'	129476.1646	30.830752	1972.2406	0.019618	27.367
	40895.7676	0.153396	369.4433	0.005407	6.283
37°51'	131326.0098	30.830840	1973.4176	0.019627	27.392
	40904.9714	0.153523	369.7677	0.005414	6.293
37°52'	133175.8602	30.830927	1974.5952	0.019635	27.417
	40914.1828	0.153650	370.0926	0.005421	6.303
37°53'	135025.7158	30.831015	1975.7733	0.019644	27.442
	40923.4018	0.153778	370.4178	0.005429	6.313
37°54'	136875.5767	30.831102	1976.9520	0.019653	27.467
	40932.6285	0.153905	370.7436	0.005436	6.323
37°55'	138725.4428	30.831190	1978.1312	0.019662	27.492
	40941.8628	0.154032	371.0697	0.005443	6.333
37°56'	140575.3142	30.831277	1979.3109	0.019671	27.518
	40951.1047	0.154160	371.3963	0.005450	6.343
37°57'	142425.1908	30.831365	1980.4911	0.019679	27.543
	40960.3543	0.154287	371.7233	0.005458	6.353
37°58'	144275.0727	30.831452	1981.6719	0.019688	27.568
	40969.6115	0.154415	372.0508	0.005465	6.363
37°59'	146124.9598	30.831540	1982.8531	0.019697	27.593
	40978.8764	0.154543	372.3787	0.005472	6.373
38° 0'	147974.8522	30.831628	1984.0350	0.019706	27.618
	40988.1490	0.154671	372.7070	0.005480	6.383
38° 1'	149824.7499	30.831715	1985.2173	0.019715	27.643
	40997.4293	0.154799	373.0358	0.005487	6.393
38° 2'	151674.6528	30.831803	1986.4002	0.019724	27.669
	41006.7172	0.154927	373.3650	0.005494	6.403
38° 3'	153524.5610	30.831891	1987.5836	0.019732	27.694
	41016.0129	0.155056	373.6947	0.005502	6.413
38° 4'	155374.4744	30.831978	1988.7676	0.019741	27.719
	41025.3162	0.155184	374.0248	0.005509	6.423
38° 5'	157224.3931	30.832066	1989.9520	0.019750	27.745
	41034.6273	0.155313	374.3553	0.005516	6.433
38° 6'	159074.3171	30.832154	1991.1370	0.019759	27.770
	41043.9460	0.155441	374.6863	0.005524	6.443
38° 7'	160924.2463	30.832241	1992.3226	0.019768	27.795
	41053.2725	0.155570	375.0177	0.005531	6.453

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38° 8'	162774.1807	30.832329	1993.5087	0.019777	27.821
	41062.6067	0.155699	375.3495	0.005538	6.464
38° 9'	164624.1205	30.832417	1994.6953	0.019786	27.846
	41071.9487	0.155828	375.6818	0.005546	6.474
38°10'	166474.0655	30.832504	1995.8824	0.019795	27.872
	41081.2983	0.155957	376.0146	0.005553	6.484
38°11'	168324.0157	30.832592	1997.0701	0.019804	27.897
	41090.6558	0.156086	376.3478	0.005561	6.494
38°12'	170173.9713	30.832680	1998.2583	0.019813	27.923
	41100.0210	0.156216	376.6814	0.005568	6.505
38°13'	172023.9321	30.832768	1999.4471	0.019822	27.948
	41109.3939	0.156345	377.0155	0.005575	6.515
38°14'	173873.8981	30.832855	2000.6364	0.019831	27.974
	41118.7746	0.156475	377.3500	0.005583	6.525
38°15'	175723.8695	30.832943	2001.8262	0.019840	28.000
	41128.1631	0.156605	377.6850	0.005590	6.535
38°16'	177573.8461	30.833031	2003.0166	0.019849	28.025
	41137.5594	0.156734	378.0204	0.005598	6.546
38°17'	179423.8279	30.833119	2004.2075	0.019858	28.051
	41146.9634	0.156864	378.3563	0.005605	6.556
38°18'	181273.8150	30.833207	2005.3990	0.019867	28.077
	41156.3753	0.156994	378.6926	0.005613	6.567
38°19'	183123.8075	30.833295	2006.5910	0.019876	28.102
	41165.7950	0.157125	379.0294	0.005620	6.577
38°20'	184973.8051	30.833382	2007.7835	0.019885	28.128
	41175.2224	0.157255	379.3666	0.005628	6.587
38°21'	186823.8081	30.833470	2008.9766	0.019894	28.154
	41184.6577	0.157385	379.7043	0.005635	6.598
38°22'	188673.8163	30.833558	2010.1702	0.019903	28.180
	41194.1008	0.157516	380.0424	0.005643	6.608
38°23'	190523.8298	30.833646	2011.3644	0.019912	28.206
	41203.5518	0.157646	380.3810	0.005651	6.619
38°24'	192373.8485	30.833734	2012.5591	0.019921	28.232
	41213.0106	0.157777	380.7200	0.005658	6.629
38°25'	194223.8726	30.833822	2013.7544	0.019930	28.258
	41222.4772	0.157908	381.0595	0.005666	6.640
38°26'	196073.9019	30.833910	2014.9502	0.019939	28.283
	41231.9517	0.158039	381.3995	0.005673	6.650
38°27'	197923.9365	30.833998	2016.1465	0.019948	28.309
	41241.4340	0.158170	381.7399	0.005681	6.661
38°28'	199773.9764	30.834086	2017.3434	0.019957	28.335
	41250.9242	0.158301	382.0807	0.005689	6.672
38°29'	201624.0215	30.834174	2018.5409	0.019966	28.361
	41260.4223	0.158433	382.4220	0.005696	6.682

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°30'	203474.0719	30.834262	2019.7388	0.019976	28.387
	41269.9283	0.158564	382.7638	0.005704	6.693
38°31'	205324.1276	30.834350	2020.9374	0.019985	28.414
	41279.4421	0.158696	383.1060	0.005712	6.703
38°32'	207174.1886	30.834438	2022.1365	0.019994	28.440
	41288.9638	0.158827	383.4487	0.005719	6.714
38°33'	209024.2549	30.834526	2023.3361	0.020003	28.466
	41298.4935	0.158959	383.7919	0.005727	6.725
38°34'	210874.3264	30.834614	2024.5363	0.020012	28.492
	41308.0310	0.159091	384.1355	0.005735	6.735
38°35'	212724.4033	30.834702	2025.7370	0.020021	28.518
	41317.5765	0.159223	384.4796	0.005742	6.746
38°36'	214574.4854	30.834790	2026.9383	0.020031	28.544
	41327.1299	0.159355	384.8241	0.005750	6.757
38°37'	216424.5728	30.834878	2028.1401	0.020040	28.571
	41336.6912	0.159488	385.1691	0.005758	6.768
38°38'	218274.6655	30.834966	2029.3425	0.020049	28.597
	41346.2605	0.159620	385.5146	0.005766	6.778
38°39'	220124.7634	30.835054	2030.5454	0.020058	28.623
	41355.8377	0.159753	385.8605	0.005773	6.789
38°40'	221974.8667	30.835142	2031.7489	0.020067	28.650
	41365.4228	0.159885	386.2069	0.005781	6.800
38°41'	223824.9752	30.835230	2032.9530	0.020077	28.676
	41375.0160	0.160018	386.5538	0.005789	6.811
38°42'	225675.0890	30.835319	2034.1576	0.020086	28.702
	41384.6170	0.160151	386.9011	0.005797	6.822
38°43'	227525.2081	30.835407	2035.3627	0.020095	28.729
	41394.2261	0.160284	387.2489	0.005804	6.833
38°44'	229375.3325	30.835495	2036.5684	0.020104	28.755
	41403.8431	0.160417	387.5972	0.005812	6.844
38°45'	231225.4622	30.835583	2037.7747	0.020114	28.782
	41413.4682	0.160550	387.9459	0.005820	6.855
38°46'	233075.5972	30.835671	2038.9815	0.020123	28.808
	41423.1012	0.160684	388.2952	0.005828	6.866
38°47'	234925.7375	30.835759	2040.1889	0.020132	28.835
	41432.7422	0.160817	388.6448	0.005836	6.877
38°48'	236775.8830	30.835848	2041.3969	0.020142	28.861
	41442.3912	0.160951	388.9950	0.005844	6.888
38°49'	238626.0339	30.835936	2042.6054	0.020151	28.888
	41452.0483	0.161085	389.3456	0.005852	6.899
38°50'	240476.1900	30.836024	2043.8144	0.020160	28.915
	41461.7134	0.161218	389.6967	0.005860	6.910
38°51'	242326.3515	30.836112	2045.0240	0.020170	28.941
	41471.3865	0.161352	390.0483	0.005867	6.921

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°52'	244176.5182	30.836200	2046.2342	0.020179	28.968
	41481.0676	0.161486	390.4003	0.005875	6.932
38°53'	246026.6902	30.836289	2047.4449	0.020188	28.995
	41490.7568	0.161621	390.7528	0.005883	6.943
38°54'	247876.8676	30.836377	2048.6562	0.020198	29.021
	41500.4540	0.161755	391.1058	0.005891	6.954
38°55'	249727.0502	30.836465	2049.8681	0.020207	29.048
	41510.1593	0.161890	391.4593	0.005899	6.965
38°56'	251577.2381	30.836554	2051.0805	0.020216	29.075
	41519.8727	0.162024	391.8133	0.005907	6.976
38°57'	253427.4313	30.836642	2052.2935	0.020226	29.102
	41529.5941	0.162159	392.1677	0.005915	6.988
38°58'	255277.6298	30.836730	2053.5071	0.020235	29.129
	41539.3237	0.162294	392.5226	0.005923	6.999
38°59'	257127.8336	30.836819	2054.7212	0.020245	29.155
	41549.0613	0.162429	392.8780	0.005931	7.010
39° 0'	258978.0427	30.836907	2055.9359	0.020254	29.182
	41558.8070	0.162564	393.2339	0.005939	7.021
39° 1'	260828.2572	30.836995	2057.1511	0.020264	29.209
	41568.5608	0.162699	393.5902	0.005947	7.033
39° 2'	262678.4769	30.837084	2058.3669	0.020273	29.236
	41578.3228	0.162834	393.9471	0.005955	7.044
39° 3'	264528.7019	30.837172	2059.5833	0.020282	29.263
	41588.0928	0.162970	394.3044	0.005963	7.055
39° 4'	266378.9322	30.837260	2060.8002	0.020292	29.290
	41597.8710	0.163105	394.6622	0.005971	7.067
39° 5'	268229.1678	30.837349	2062.0178	0.020301	29.317
	41607.6573	0.163241	395.0205	0.005980	7.078
39° 6'	270079.4087	30.837437	2063.2358	0.020311	29.345
	41617.4518	0.163377	395.3793	0.005988	7.089
39° 7'	271929.6550	30.837526	2064.4545	0.020320	29.372
	41627.2544	0.163513	395.7385	0.005996	7.101
39° 8'	273779.9065	30.837614	2065.6737	0.020330	29.399
	41637.0651	0.163649	396.0983	0.006004	7.112
39° 9'	275630.1634	30.837702	2066.8935	0.020339	29.426
	41646.8841	0.163785	396.4585	0.006012	7.124
39°10'	277480.4255	30.837791	2068.1139	0.020349	29.453
	41656.7112	0.163921	396.8192	0.006020	7.135
39°11'	279330.6929	30.837879	2069.3348	0.020359	29.481
	41666.5464	0.164058	397.1805	0.006028	7.147
39°12'	281180.9657	30.837968	2070.5563	0.020368	29.508
	41676.3899	0.164194	397.5422	0.006037	7.158
39°13'	283031.2438	30.838056	2071.7784	0.020378	29.535
	41686.2416	0.164331	397.9044	0.006045	7.170

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°14'	284881.5272	30.838145	2073.0011	0.020387	29.563
	41696.1014	0.164468	398.2671	0.006053	7.181
39°15'	286731.8158	30.838233	2074.2243	0.020397	29.590
	41705.9695	0.164605	398.6302	0.006061	7.193
39°16'	288582.1098	30.838322	2075.4481	0.020406	29.617
	41715.8458	0.164742	398.9939	0.006069	7.205
39°17'	290432.4092	30.838410	2076.6725	0.020416	29.645
	41725.7303	0.164879	399.3581	0.006078	7.216
39°18'	292282.7138	30.838499	2077.8974	0.020426	29.672
	41735.6230	0.165016	399.7227	0.006086	7.228
39°19'	294133.0237	30.838587	2079.1230	0.020435	29.700
	41745.5240	0.165154	400.0879	0.006094	7.240
39°20'	295983.3390	30.838676	2080.3491	0.020445	29.727
	41755.4332	0.165291	400.4536	0.006103	7.251
39°21'	297833.6595	30.838765	2081.5758	0.020454	29.755
	41765.3507	0.165429	400.8197	0.006111	7.263
39°22'	299683.9854	30.838853	2082.8031	0.020464	29.782
	41775.2765	0.165567	401.1864	0.006119	7.275
39°23'	301534.3166	30.838942	2084.0309	0.020474	29.810
	41785.2105	0.165705	401.5535	0.006128	7.287
39°24'	303384.6531	30.839030	2085.2593	0.020483	29.838
	41795.1528	0.165843	401.9212	0.006136	7.299
39°25'	305234.9949	30.839119	2086.4883	0.020493	29.865
	41805.1034	0.165981	402.2893	0.006144	7.310
39°26'	307085.3420	30.839208	2087.7179	0.020503	29.893
	41815.0622	0.166120	402.6580	0.006153	7.322
39°27'	308935.6945	30.839296	2088.9481	0.020513	29.921
	41825.0294	0.166258	403.0271	0.006161	7.334
39°28'	310786.0523	30.839385	2090.1789	0.020522	29.949
	41835.0049	0.166397	403.3968	0.006169	7.346
39°29'	312636.4154	30.839474	2091.4102	0.020532	29.976
	41844.9887	0.166535	403.7670	0.006178	7.358
39°30'	314486.7838	30.839562	2092.6421	0.020542	30.004
	41854.9808	0.166674	404.1376	0.006186	7.370
39°31'	316337.1575	30.839651	2093.8746	0.020552	30.032
	41864.9812	0.166813	404.5088	0.006195	7.382
39°32'	318187.5366	30.839740	2095.1077	0.020561	30.060
	41874.9900	0.166952	404.8805	0.006203	7.394
39°33'	320037.9209	30.839828	2096.3414	0.020571	30.088
	41885.0072	0.167091	405.2527	0.006212	7.406
39°34'	321888.3106	30.839917	2097.5757	0.020581	30.116
	41895.0327	0.167231	405.6254	0.006220	7.418
39°35'	323738.7056	30.840006	2098.8105	0.020591	30.144
	41905.0665	0.167370	405.9986	0.006229	7.430

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°36'	325589.1060	30.840094	2100.0460	0.020600	30.172
	41915.1087	0.167510	406.3723	0.006237	7.442
39°37'	327439.5116	30.840183	2101.2820	0.020610	30.200
	41925.1593	0.167650	406.7465	0.006246	7.454
39°38'	329289.9226	30.840272	2102.5186	0.020620	30.228
	41935.2183	0.167790	407.1213	0.006254	7.466
39°39'	331140.3389	30.840361	2103.7558	0.020630	30.256
	41945.2857	0.167930	407.4965	0.006263	7.479
39°40'	332990.7606	30.840449	2104.9936	0.020640	30.284
	41955.3615	0.168070	407.8723	0.006271	7.491
39°41'	334841.1876	30.840538	2106.2320	0.020650	30.313
	41965.4456	0.168210	408.2486	0.006280	7.503
39°42'	336691.6198	30.840627	2107.4710	0.020659	30.341
	41975.5382	0.168350	408.6254	0.006288	7.515
39°43'	338542.0575	30.840716	2108.7105	0.020669	30.369
	41985.6393	0.168491	409.0027	0.006297	7.528
39°44'	340392.5004	30.840805	2109.9507	0.020679	30.397
	41995.7487	0.168632	409.3805	0.006306	7.540
39°45'	342242.9487	30.840893	2111.1914	0.020689	30.426
	42005.8666	0.168772	409.7588	0.006314	7.552
39°46'	344093.4023	30.840982	2112.4328	0.020699	30.454
	42015.9930	0.168913	410.1377	0.006323	7.565
39°47'	345943.8612	30.841071	2113.6747	0.020709	30.482
	42026.1278	0.169054	410.5171	0.006332	7.577
39°48'	347794.3255	30.841160	2114.9173	0.020719	30.511
	42036.2710	0.169196	410.8970	0.006340	7.589
39°49'	349644.7951	30.841249	2116.1604	0.020729	30.539
	42046.4228	0.169337	411.2774	0.006349	7.602
39°50'	351495.2700	30.841338	2117.4041	0.020739	30.568
	42056.5830	0.169478	411.6583	0.006358	7.614
39°51'	353345.7503	30.841427	2118.6485	0.020749	30.596
	42066.7517	0.169620	412.0398	0.006366	7.627
39°52'	355196.2359	30.841515	2119.8934	0.020759	30.625
	42076.9289	0.169762	412.4218	0.006375	7.639
39°53'	357046.7268	30.841604	2121.1389	0.020769	30.653
	42087.1146	0.169903	412.8043	0.006384	7.652
39°54'	358897.2231	30.841693	2122.3850	0.020779	30.682
	42097.3088	0.170045	413.1874	0.006393	7.664
39°55'	360747.7247	30.841782	2123.6318	0.020789	30.711
	42107.5115	0.170188	413.5709	0.006402	7.677
39°56'	362598.2316	30.841871	2124.8791	0.020799	30.739
	42117.7228	0.170330	413.9550	0.006410	7.689
39°57'	364448.7438	30.841960	2126.1270	0.020809	30.768
	42127.9426	0.170472	414.3396	0.006419	7.702

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°58'	366299.2615	30.842049	2127.3755	0.020819	30.797
	42138.1709	0.170615	414.7248	0.006428	7.715
39°59'	368149.7844	30.842138	2128.6247	0.020829	30.826
	42148.4078	0.170757	415.1105	0.006437	7.727
40° 0'	370000.3127	30.842227	2129.8744	0.020839	30.854
	42158.6532	0.170900	415.4967	0.006446	7.740
40° 1'	371850.8463	30.842316	2131.1247	0.020849	30.883
	42168.9072	0.171043	415.8834	0.006455	7.753
40° 2'	373701.3852	30.842405	2132.3757	0.020859	30.912
	42179.1698	0.171186	416.2707	0.006463	7.765
40° 3'	375551.9295	30.842494	2133.6272	0.020869	30.941
	42189.4410	0.171329	416.6585	0.006472	7.778
40° 4'	377402.4792	30.842583	2134.8794	0.020879	30.970
	42199.7207	0.171473	417.0468	0.006481	7.791
40° 5'	379253.0341	30.842672	2136.1321	0.020889	30.999
	42210.0091	0.171616	417.4357	0.006490	7.804
40° 6'	381103.5944	30.842761	2137.3855	0.020900	31.028
	42220.3060	0.171760	417.8251	0.006499	7.817
40° 7'	382954.1601	30.842850	2138.6395	0.020910	31.057
	42230.6116	0.171903	418.2150	0.006508	7.830
40° 8'	384804.7311	30.842939	2139.8941	0.020920	31.086
	42240.9258	0.172047	418.6055	0.006517	7.842
40° 9'	386655.3074	30.843028	2141.1492	0.020930	31.115
	42251.2487	0.172191	418.9965	0.006526	7.855
40°10'	388505.8891	30.843117	2142.4050	0.020940	31.144
	42261.5801	0.172335	419.3881	0.006535	7.868
40°11'	390356.4761	30.843206	2143.6615	0.020950	31.173
	42271.9202	0.172480	419.7802	0.006544	7.881
40°12'	392207.0685	30.843295	2144.9185	0.020961	31.203
	42282.2690	0.172624	420.1728	0.006553	7.894
40°13'	394057.6662	30.843384	2146.1761	0.020971	31.232
	42292.6265	0.172768	420.5660	0.006562	7.907
40°14'	395908.2693	30.843473	2147.4344	0.020981	31.261
	42302.9926	0.172913	420.9598	0.006571	7.920
40°15'	397758.8777	30.843563	2148.6932	0.020991	31.291
	42313.3674	0.173058	421.3540	0.006580	7.933
40°16'	399609.4914	30.843652	2149.9527	0.021001	31.320
	42323.7508	0.173203	421.7488	0.006589	7.947
40°17'	401460.1105	30.843741	2151.2128	0.021012	31.349
	42334.1430	0.173348	422.1442	0.006598	7.960
40°18'	403310.7350	30.843830	2152.4735	0.021022	31.379
	42344.5439	0.173493	422.5401	0.006608	7.973
40°19'	405161.3648	30.843919	2153.7348	0.021032	31.408
	42354.9535	0.173639	422.9366	0.006617	7.986

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°20'	407011.9999	30.844008	2154.9967	0.021042	31.438
	42365.3718	0.173784	423.3336	0.006626	7.999
40°21'	408862.6404	30.844097	2156.2593	0.021053	31.467
	42375.7988	0.173930	423.7311	0.006635	8.013
40°22'	410713.2863	30.844187	2157.5224	0.021063	31.497
	42386.2346	0.174075	424.1292	0.006644	8.026
40°23'	412563.9374	30.844276	2158.7862	0.021073	31.526
	42396.6791	0.174221	424.5279	0.006653	8.039
40°24'	414414.5940	30.844365	2160.0506	0.021084	31.556
	42407.1324	0.174367	424.9271	0.006663	8.052
40°25'	416265.2559	30.844454	2161.3157	0.021094	31.585
	42417.5945	0.174514	425.3268	0.006672	8.066
40°26'	418115.9231	30.844543	2162.5813	0.021104	31.615
	42428.0653	0.174660	425.7271	0.006681	8.079
40°27'	419966.5957	30.844633	2163.8476	0.021115	31.645
	42438.5449	0.174806	426.1280	0.006690	8.093
40°28'	421817.2737	30.844722	2165.1145	0.021125	31.675
	42449.0332	0.174953	426.5294	0.006700	8.106
40°29'	423667.9570	30.844811	2166.3820	0.021136	31.704
	42459.5304	0.175100	426.9314	0.006709	8.119
40°30'	425518.6456	30.844900	2167.6501	0.021146	31.734
	42470.0364	0.175247	427.3339	0.006718	8.133
40°31'	427369.3397	30.844989	2168.9189	0.021156	31.764
	42480.5512	0.175394	427.7370	0.006728	8.146
40°32'	429220.0390	30.845079	2170.1882	0.021167	31.794
	42491.0748	0.175541	428.1407	0.006737	8.160
40°33'	431070.7437	30.845168	2171.4582	0.021177	31.824
	42501.6072	0.175688	428.5449	0.006746	8.174
40°34'	432921.4538	30.845257	2172.7289	0.021188	31.854
	42512.1485	0.175835	428.9496	0.006756	8.187
40°35'	434772.1693	30.845347	2174.0001	0.021198	31.884
	42522.6986	0.175983	429.3550	0.006765	8.201
40°36'	436622.8900	30.845436	2175.2720	0.021209	31.914
	42533.2576	0.176131	429.7609	0.006774	8.214
40°37'	438473.6162	30.845525	2176.5445	0.021219	31.944
	42543.8255	0.176279	430.1673	0.006784	8.228
40°38'	440324.3477	30.845614	2177.8177	0.021230	31.974
	42554.4022	0.176427	430.5743	0.006793	8.242
40°39'	442175.0846	30.845704	2179.0915	0.021240	32.004
	42564.9878	0.176575	430.9819	0.006803	8.256
40°40'	444025.8268	30.845793	2180.3659	0.021251	32.034
	42575.5822	0.176723	431.3901	0.006812	8.269
40°41'	445876.5744	30.845882	2181.6409	0.021261	32.065
	42586.1856	0.176871	431.7988	0.006822	8.283

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°42'	447727.3273	30.845972	2182.9166	0.021272	32.095
	42596.7979	0.177020	432.2081	0.006831	8.297
40°43'	449578.0856	30.846061	2184.1929	0.021282	32.125
	42607.4191	0.177169	432.6180	0.006841	8.311
40°44'	451428.8493	30.846150	2185.4698	0.021293	32.155
	42618.0492	0.177317	433.0284	0.006850	8.325
40°45'	453279.6183	30.846240	2186.7473	0.021303	32.186
	42628.6883	0.177466	433.4394	0.006860	8.338
40°46'	455130.3927	30.846329	2188.0255	0.021314	32.216
	42639.3362	0.177616	433.8510	0.006869	8.352
40°47'	456981.1725	30.846419	2189.3044	0.021324	32.247
	42649.9932	0.177765	434.2631	0.006879	8.366
40°48'	458831.9576	30.846508	2190.5838	0.021335	32.277
	42660.6591	0.177914	434.6759	0.006888	8.380
40°49'	460682.7481	30.846597	2191.8639	0.021346	32.307
	42671.3339	0.178064	435.0892	0.006898	8.394
40°50'	462533.5439	30.846687	2193.1447	0.021356	32.338
	42682.0177	0.178213	435.5031	0.006908	8.408
40°51'	464384.3451	30.846776	2194.4261	0.021367	32.369
	42692.7105	0.178363	435.9175	0.006917	8.423
40°52'	466235.1517	30.846866	2195.7081	0.021378	32.399
	42703.4123	0.178513	436.3325	0.006927	8.437
40°53'	468085.9636	30.846955	2196.9907	0.021388	32.430
	42714.1231	0.178663	436.7482	0.006937	8.451
40°54'	469936.7809	30.847044	2198.2740	0.021399	32.460
	42724.8429	0.178814	437.1643	0.006946	8.465
40°55'	471787.6036	30.847134	2199.5580	0.021410	32.491
	42735.5718	0.178964	437.5811	0.006956	8.479
40°56'	473638.4316	30.847223	2200.8425	0.021420	32.522
	42746.3096	0.179115	437.9985	0.006966	8.493
40°57'	475489.2650	30.847313	2202.1278	0.021431	32.553
	42757.0565	0.179265	438.4164	0.006975	8.508
40°58'	477340.1038	30.847402	2203.4136	0.021442	32.584
	42767.8124	0.179416	438.8349	0.006985	8.522
40°59'	479190.9479	30.847492	2204.7001	0.021452	32.614
	42778.5774	0.179567	439.2540	0.006995	8.536
41° 0'	481041.7974	30.847581	2205.9873	0.021463	32.645
	42789.3514	0.179718	439.6737	0.007005	8.550
41° 1'	482892.6523	30.847671	2207.2751	0.021474	32.676
	42800.1345	0.179870	440.0940	0.007014	8.565
41° 2'	484743.5126	30.847760	2208.5635	0.021485	32.707
	42810.9267	0.180021	440.5149	0.007024	8.579
41° 3'	486594.3782	30.847850	2209.8526	0.021496	32.738
	42821.7280	0.180173	440.9363	0.007034	8.594

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41° 4'	488445.2492	30.847939	2211.1423	0.021506	32.769
	42832.5383	0.180324	441.3584	0.007044	8.608
41° 5'	490296.1255	30.848029	2212.4327	0.021517	32.800
	42843.3578	0.180476	441.7810	0.007054	8.623
41° 6'	492147.0073	30.848118	2213.7237	0.021528	32.831
	42854.1863	0.180628	442.2043	0.007064	8.637
41° 7'	493997.8944	30.848208	2215.0154	0.021539	32.862
	42865.0240	0.180780	442.6281	0.007074	8.652
41° 8'	495848.7868	30.848297	2216.3077	0.021550	32.894
	42875.8709	0.180933	443.0525	0.007084	8.666
41° 9'	497699.6847	30.848387	2217.6007	0.021560	32.925
	42886.7268	0.181085	443.4775	0.007093	8.681
41°10'	499550.5879	30.848477	2218.8944	0.021571	32.956
	42897.5919	0.181238	443.9031	0.007103	8.695
41°11'	501401.4965	30.848566	2220.1886	0.021582	32.987
	42908.4662	0.181390	444.3293	0.007113	8.710
41°12'	503252.4105	30.848656	2221.4836	0.021593	33.019
	42919.3496	0.181543	444.7561	0.007123	8.725
41°13'	505103.3298	30.848745	2222.7792	0.021604	33.050
	42930.2422	0.181696	445.1835	0.007133	8.739
41°14'	506954.2545	30.848835	2224.0754	0.021615	33.082
	42941.1440	0.181850	445.6115	0.007143	8.754
41°15'	508805.1846	30.848924	2225.3723	0.021626	33.113
	42952.0550	0.182003	446.0401	0.007153	8.769
41°16'	510656.1201	30.849014	2226.6698	0.021637	33.144
	42962.9752	0.182156	446.4693	0.007163	8.784
41°17'	512507.0609	30.849104	2227.9680	0.021648	33.176
	42973.9046	0.182310	446.8992	0.007174	8.799
41°18'	514358.0071	30.849193	2229.2669	0.021659	33.208
	42984.8432	0.182464	447.3296	0.007184	8.814
41°19'	516208.9587	30.849283	2230.5664	0.021670	33.239
	42995.7910	0.182618	447.7606	0.007194	8.828
41°20'	518059.9157	30.849373	2231.8666	0.021681	33.271
	43006.7481	0.182772	448.1922	0.007204	8.843
41°21'	519910.8781	30.849462	2233.1675	0.021692	33.302
	43017.7144	0.182926	448.6244	0.007214	8.858
41°22'	521761.8458	30.849552	2234.4689	0.021703	33.334
	43028.6899	0.183081	449.0573	0.007224	8.873
41°23'	523612.8189	30.849642	2235.7711	0.021714	33.366
	43039.6748	0.183235	449.4907	0.007234	8.888
41°24'	525463.7974	30.849731	2237.0739	0.021725	33.398
	43050.6689	0.183390	449.9248	0.007245	8.903
41°25'	527314.7813	30.849821	2238.3774	0.021736	33.429
	43061.6723	0.183545	450.3595	0.007255	8.919

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°26'	529165.7705	30.849911	2239.6816	0.021747	33.461
	43072.6849	0.183700	450.7947	0.007265	8.934
41°27'	531016.7652	30.850000	2240.9864	0.021758	33.493
	43083.7069	0.183855	451.2306	0.007275	8.949
41°28'	532867.7652	30.850090	2242.2918	0.021769	33.525
	43094.7382	0.184010	451.6672	0.007285	8.964
41°29'	534718.7706	30.850180	2243.5980	0.021780	33.557
	43105.7788	0.184165	452.1043	0.007296	8.979
41°30'	536569.7813	30.850269	2244.9048	0.021791	33.589
	43116.8287	0.184321	452.5420	0.007306	8.994
41°31'	538420.7975	30.850359	2246.2123	0.021802	33.621
	43127.8880	0.184477	452.9804	0.007316	9.010
41°32'	540271.8190	30.850449	2247.5204	0.021813	33.653
	43138.9566	0.184633	453.4194	0.007327	9.025
41°33'	542122.8460	30.850538	2248.8292	0.021825	33.685
	43150.0345	0.184789	453.8590	0.007337	9.040
41°34'	543973.8783	30.850628	2250.1387	0.021836	33.718
	43161.1218	0.184945	454.2992	0.007347	9.056
41°35'	545824.9160	30.850718	2251.4488	0.021847	33.750
	43172.2185	0.185101	454.7400	0.007358	9.071
41°36'	547675.9590	30.850808	2252.7596	0.021858	33.782
	43183.3246	0.185258	455.1815	0.007368	9.087
41°37'	549527.0075	30.850897	2254.0711	0.021869	33.814
	43194.4401	0.185414	455.6236	0.007379	9.102
41°38'	551378.0614	30.850987	2255.3833	0.021880	33.847
	43205.5649	0.185571	456.0663	0.007389	9.118
41°39'	553229.1206	30.851077	2256.6961	0.021892	33.879
	43216.6992	0.185728	456.5096	0.007399	9.133
41°40'	555080.1852	30.851167	2258.0096	0.021903	33.911
	43227.8429	0.185885	456.9536	0.007410	9.149
41°41'	556931.2552	30.851257	2259.3238	0.021914	33.944
	43238.9960	0.186043	457.3982	0.007420	9.164
41°42'	558782.3306	30.851346	2260.6386	0.021925	33.976
	43250.1586	0.186200	457.8434	0.007431	9.180
41°43'	560633.4114	30.851436	2261.9542	0.021937	34.009
	43261.3306	0.186358	458.2893	0.007441	9.195
41°44'	562484.4975	30.851526	2263.2704	0.021948	34.041
	43272.5120	0.186515	458.7358	0.007452	9.211
41°45'	564335.5891	30.851616	2264.5872	0.021959	34.074
	43283.7029	0.186673	459.1829	0.007463	9.227
41°46'	566186.6860	30.851705	2265.9048	0.021971	34.106
	43294.9033	0.186831	459.6306	0.007473	9.243
41°47'	568037.7884	30.851795	2267.2230	0.021982	34.139
	43306.1132	0.186989	460.0790	0.007484	9.258

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°48'	569888.8961	30.851885	2268.5419	0.021993	34.172
	43317.3325	0.187148	460.5280	0.007494	9.274
41°49'	571740.0092	30.851975	2269.8615	0.022005	34.205
	43328.5614	0.187306	460.9777	0.007505	9.290
41°50'	573591.1277	30.852065	2271.1818	0.022016	34.237
	43339.7998	0.187465	461.4280	0.007516	9.306
41°51'	575442.2516	30.852155	2272.5028	0.022027	34.270
	43351.0477	0.187624	461.8789	0.007526	9.322
41°52'	577293.3809	30.852244	2273.8244	0.022039	34.303
	43362.3051	0.187783	462.3305	0.007537	9.338
41°53'	579144.5155	30.852334	2275.1467	0.022050	34.336
	43373.5720	0.187942	462.7827	0.007548	9.354
41°54'	580995.6556	30.852424	2276.4697	0.022062	34.369
	43384.8485	0.188101	463.2356	0.007558	9.370
41°55'	582846.8010	30.852514	2277.7934	0.022073	34.402
	43396.1346	0.188261	463.6891	0.007569	9.386
41°56'	584697.9519	30.852604	2279.1178	0.022084	34.435
	43407.4302	0.188420	464.1433	0.007580	9.402
41°57'	586549.1081	30.852694	2280.4429	0.022096	34.468
	43418.7355	0.188580	464.5981	0.007591	9.418
41°58'	588400.2698	30.852784	2281.7686	0.022107	34.501
	43430.0502	0.188740	465.0535	0.007601	9.434
41°59'	590251.4368	30.852874	2283.0951	0.022119	34.534
	43441.3746	0.188900	465.5096	0.007612	9.451
42° 0'	592102.6092	30.852963	2284.4222	0.022130	34.567
	43452.7086	0.189060	465.9663	0.007623	9.467
42° 1'	593953.7870	30.853053	2285.7500	0.022142	34.601
	43464.0522	0.189220	466.4237	0.007634	9.483
42° 2'	595804.9702	30.853143	2287.0785	0.022153	34.634
	43475.4055	0.189381	466.8818	0.007645	9.499
42° 3'	597656.1588	30.853233	2288.4077	0.022165	34.667
	43486.7683	0.189542	467.3404	0.007656	9.516
42° 4'	599507.3528	30.853323	2289.7376	0.022176	34.701
	43498.1408	0.189703	467.7998	0.007667	9.532
42° 5'	601358.5522	30.853413	2291.0681	0.022188	34.734
	43509.5230	0.189864	468.2598	0.007678	9.548
42° 6'	603209.7570	30.853503	2292.3994	0.022199	34.767
	43520.9148	0.190025	468.7204	0.007689	9.565
42° 7'	605060.9671	30.853593	2293.7314	0.022211	34.801
	43532.3163	0.190186	469.1818	0.007700	9.581
42° 8'	606912.1827	30.853683	2295.0640	0.022223	34.834
	43543.7274	0.190348	469.6437	0.007711	9.598
42° 9'	608763.4037	30.853773	2296.3974	0.022234	34.868
	43555.1483	0.190509	470.1064	0.007722	9.614

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°10'	610614.6301	30.853863	2297.7314	0.022246	34.902
	43566.5789	0.190671	470.5697	0.007733	9.631
42°11'	612465.8618	30.853953	2299.0662	0.022257	34.935
	43578.0191	0.190833	471.0336	0.007744	9.647
42°12'	614317.0990	30.854043	2300.4016	0.022269	34.969
	43589.4691	0.190995	471.4982	0.007755	9.664
42°13'	616168.3416	30.854133	2301.7378	0.022281	35.003
	43600.9288	0.191158	471.9635	0.007766	9.681
42°14'	618019.5895	30.854223	2303.0746	0.022292	35.036
	43612.3983	0.191320	472.4294	0.007777	9.697
42°15'	619870.8429	30.854313	2304.4122	0.022304	35.070
	43623.8775	0.191483	472.8961	0.007788	9.714
42°16'	621722.1016	30.854403	2305.7504	0.022316	35.104
	43635.3664	0.191645	473.3633	0.007799	9.731
42°17'	623573.3658	30.854493	2307.0894	0.022327	35.138
	43646.8652	0.191808	473.8313	0.007810	9.748
42°18'	625424.6353	30.854583	2308.4290	0.022339	35.172
	43658.3737	0.191972	474.2999	0.007821	9.765
42°19'	627275.9103	30.854673	2309.7694	0.022351	35.206
	43669.8920	0.192135	474.7692	0.007833	9.782
42°20'	629127.1907	30.854763	2311.1104	0.022363	35.240
	43681.4201	0.192298	475.2391	0.007844	9.798
42°21'	630978.4764	30.854853	2312.4522	0.022374	35.274
	43692.9579	0.192462	475.7098	0.007855	9.815
42°22'	632829.7676	30.854943	2313.7946	0.022386	35.308
	43704.5057	0.192626	476.1811	0.007866	9.832
42°23'	634681.0641	30.855033	2315.1378	0.022398	35.342
	43716.0632	0.192790	476.6530	0.007878	9.849
42°24'	636532.3661	30.855123	2316.4817	0.022410	35.376
	43727.6306	0.192954	477.1257	0.007889	9.866
42°25'	638383.6735	30.855213	2317.8263	0.022422	35.410
	43739.2078	0.193118	477.5990	0.007900	9.884
42°26'	640234.9862	30.855303	2319.1716	0.022433	35.445
	43750.7948	0.193282	478.0730	0.007912	9.901
42°27'	642086.3044	30.855393	2320.5176	0.022445	35.479
	43762.3918	0.193447	478.5477	0.007923	9.918
42°28'	643937.6280	30.855483	2321.8643	0.022457	35.513
	43773.9986	0.193612	479.0231	0.007934	9.935
42°29'	645788.9569	30.855573	2323.2117	0.022469	35.548
	43785.6153	0.193776	479.4992	0.007946	9.952
42°30'	647640.2913	30.855663	2324.5598	0.022481	35.582
	43797.2419	0.193942	479.9759	0.007957	9.970
42°31'	649491.6311	30.855753	2325.9087	0.022493	35.617
	43808.8784	0.194107	480.4533	0.007969	9.987

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°32'	651342.9763	30.855843	2327.2583	0.022505	35.651
	43820.5248	0.194272	480.9314	0.007980	10.004
42°33'	653194.3269	30.855933	2328.6085	0.022517	35.686
	43832.1811	0.194438	481.4102	0.007991	10.022
42°34'	655045.6829	30.856023	2329.9595	0.022528	35.720
	43843.8474	0.194604	481.8897	0.008003	10.039
42°35'	656897.0443	30.856113	2331.3112	0.022540	35.755
	43855.5236	0.194769	482.3699	0.008014	10.057
42°36'	658748.4111	30.856203	2332.6637	0.022552	35.790
	43867.2098	0.194935	482.8508	0.008026	10.074
42°37'	660599.7833	30.856294	2334.0168	0.022564	35.824
	43878.9059	0.195102	483.3323	0.008038	10.092
42°38'	662451.1609	30.856384	2335.3707	0.022576	35.859
	43890.6120	0.195268	483.8146	0.008049	10.109
42°39'	664302.5439	30.856474	2336.7252	0.022588	35.894
	43902.3281	0.195435	484.2975	0.008061	10.127
42°40'	666153.9323	30.856564	2338.0805	0.022600	35.929
	43914.0542	0.195601	484.7812	0.008072	10.144
42°41'	668005.3262	30.856654	2339.4366	0.022612	35.964
	43925.7903	0.195768	485.2655	0.008084	10.162
42°42'	669856.7254	30.856744	2340.7933	0.022624	35.999
	43937.5364	0.195935	485.7506	0.008096	10.180
42°43'	671708.1300	30.856834	2342.1508	0.022636	36.034
	43949.2925	0.196103	486.2363	0.008107	10.198
42°44'	673559.5401	30.856924	2343.5090	0.022649	36.069
	43961.0586	0.196270	486.7227	0.008119	10.215
42°45'	675410.9556	30.857014	2344.8679	0.022661	36.104
	43972.8348	0.196438	487.2099	0.008131	10.233
42°46'	677262.3764	30.857105	2346.2275	0.022673	36.139
	43984.6211	0.196605	487.6977	0.008142	10.251
42°47'	679113.8027	30.857195	2347.5879	0.022685	36.174
	43996.4174	0.196773	488.1862	0.008154	10.269
42°48'	680965.2344	30.857285	2348.9490	0.022697	36.209
	44008.2238	0.196941	488.6755	0.008166	10.287
42°49'	682816.6715	30.857375	2350.3108	0.022709	36.244
	44020.0403	0.197110	489.1655	0.008178	10.305
42°50'	684668.1140	30.857465	2351.6733	0.022721	36.280
	44031.8669	0.197278	489.6561	0.008190	10.323
42°51'	686519.5619	30.857555	2353.0366	0.022733	36.315
	44043.7036	0.197447	490.1475	0.008201	10.341
42°52'	688371.0152	30.857646	2354.4006	0.022746	36.350
	44055.5504	0.197615	490.6396	0.008213	10.359
42°53'	690222.4740	30.857736	2355.7653	0.022758	36.386
	44067.4073	0.197784	491.1324	0.008225	10.377

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

ILLINOIS Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°54'	692073.9381	30.857826	2357.1308	0.022770	36.421
	44079.2744	0.197953	491.6259	0.008237	10.395
42°55'	693925.4077	30.857916	2358.4970	0.022782	36.457
	44091.1516	0.198123	492.1201	0.008249	10.414
42°56'	695776.8826	30.858006	2359.8639	0.022794	36.492
	44103.0389	0.198292	492.6151	0.008261	10.432
42°57'	697628.3630	30.858096	2361.2316	0.022807	36.528
	44114.9365	0.198462	493.1107	0.008273	10.450
42°58'	699479.8488	30.858187	2362.6000	0.022819	36.564
	44126.8442	0.198632	493.6071	0.008285	10.468
42°59'	701331.3400	30.858277	2363.9691	0.022831	36.599
	44138.7621	0.198802	494.1042	0.008297	10.487
43° 0'	703182.8366	30.858367	2365.3390	0.022843	36.635
	44150.6902	0.198972	494.6020	0.008309	10.505

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°40'	-0.0000	30.824663	5971.5859	0.038884	3.050	
			24047.6014	0.243075	304.678	0.012315
36°41'	1849.4798	30.824750	5973.9189	0.038875	3.049	
			24062.1859	0.243180	304.995	0.012315
36°42'	3698.9648	30.824836	5976.2515	0.038867	3.049	
			24076.7767	0.243285	305.312	0.012315
36°43'	5548.4549	30.824923	5978.5835	0.038859	3.049	
			24091.3738	0.243390	305.630	0.012315
36°44'	7397.9503	30.825009	5980.9150	0.038850	3.049	
			24105.9772	0.243496	305.948	0.012315
36°45'	9247.4508	30.825096	5983.2460	0.038842	3.049	
			24120.5870	0.243601	306.267	0.012315
36°46'	11096.9566	30.825182	5985.5765	0.038833	3.049	
			24135.2030	0.243707	306.586	0.012315
36°47'	12946.4675	30.825269	5987.9065	0.038825	3.048	
			24149.8254	0.243812	306.905	0.012315
36°48'	14795.9836	30.825355	5990.2360	0.038816	3.048	
			24164.4542	0.243918	307.225	0.012315
36°49'	16645.5049	30.825442	5992.5650	0.038808	3.048	
			24179.0893	0.244024	307.545	0.012315
36°50'	18495.0315	30.825529	5994.8934	0.038799	3.048	
			24193.7307	0.244130	307.865	0.012315
36°51'	20344.5632	30.825615	5997.2214	0.038791	3.048	
			24208.3785	0.244236	308.186	0.012315
36°52'	22194.1001	30.825702	5999.5489	0.038783	3.048	
			24223.0327	0.244342	308.508	0.012315
36°53'	24043.6422	30.825789	6001.8758	0.038774	3.047	
			24237.6933	0.244449	308.829	0.012315
36°54'	25893.1895	30.825875	6004.2023	0.038766	3.047	
			24252.3602	0.244555	309.151	0.012315
36°55'	27742.7420	30.825962	6006.5282	0.038757	3.047	
			24267.0335	0.244662	309.474	0.012315
36°56'	29592.2997	30.826049	6008.8536	0.038749	3.047	
			24281.7132	0.244768	309.796	0.012315
36°57'	31441.8626	30.826135	6011.1785	0.038740	3.047	
			24296.3993	0.244875	310.120	0.012315
36°58'	33291.4308	30.826222	6013.5029	0.038732	3.047	
			24311.0918	0.244982	310.443	0.012314
36°59'	35141.0041	30.826309	6015.8268	0.038723	3.046	
			24325.7907	0.245089	310.767	0.012314
37° 0'	36990.5826	30.826396	6018.1502	0.038715	3.046	
			24340.4961	0.245196	311.091	0.012314
37° 1'	38840.1663	30.826482	6020.4731	0.038706	3.046	
			24355.2079	0.245303	311.416	0.012314

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37° 2'	40689.7553	30.826569	6022.7955	0.038698	3.046	
			24369.9261	0.245411	311.741	0.012314
37° 3'	42539.3494	30.826656	6025.1173	0.038689	3.046	
			24384.6507	0.245518	312.067	0.012314
37° 4'	44388.9488	30.826743	6027.4387	0.038681	3.046	
			24399.3818	0.245626	312.393	0.012314
37° 5'	46238.5534	30.826830	6029.7595	0.038672	3.045	
			24414.1194	0.245733	312.719	0.012314
37° 6'	48088.1631	30.826916	6032.0799	0.038664	3.045	
			24428.8634	0.245841	313.046	0.012314
37° 7'	49937.7781	30.827003	6034.3997	0.038655	3.045	
			24443.6139	0.245949	313.373	0.012314
37° 8'	51787.3983	30.827090	6036.7190	0.038647	3.045	
			24458.3708	0.246057	313.700	0.012314
37° 9'	53637.0237	30.827177	6039.0378	0.038638	3.045	
			24473.1342	0.246165	314.028	0.012314
37°10'	55486.6544	30.827264	6041.3561	0.038630	3.044	
			24487.9041	0.246274	314.356	0.012314
37°11'	57336.2902	30.827351	6043.6739	0.038621	3.044	
			24502.6806	0.246382	314.685	0.012314
37°12'	59185.9313	30.827438	6045.9911	0.038613	3.044	
			24517.4635	0.246490	315.014	0.012314
37°13'	61035.5775	30.827525	6048.3079	0.038604	3.044	
			24532.2529	0.246599	315.344	0.012314
37°14'	62885.2290	30.827612	6050.6241	0.038596	3.044	
			24547.0488	0.246708	315.674	0.012314
37°15'	64734.8857	30.827699	6052.9399	0.038587	3.043	
			24561.8513	0.246816	316.004	0.012314
37°16'	66584.5477	30.827786	6055.2551	0.038578	3.043	
			24576.6603	0.246925	316.334	0.012314
37°17'	68434.2148	30.827873	6057.5698	0.038570	3.043	
			24591.4758	0.247034	316.666	0.012314
37°18'	70283.8872	30.827960	6059.8840	0.038561	3.043	
			24606.2979	0.247144	316.997	0.012314
37°19'	72133.5648	30.828047	6062.1977	0.038553	3.043	
			24621.1265	0.247253	317.329	0.012314
37°20'	73983.2476	30.828134	6064.5109	0.038544	3.042	
			24635.9617	0.247362	317.661	0.012313
37°21'	75832.9356	30.828221	6066.8235	0.038536	3.042	
			24650.8034	0.247472	317.994	0.012313
37°22'	77682.6289	30.828308	6069.1357	0.038527	3.042	
			24665.6517	0.247581	318.327	0.012313
37°23'	79532.3274	30.828395	6071.4473	0.038519	3.042	
			24680.5066	0.247691	318.660	0.012313

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°24'	81382.0311	30.828482	6073.7584	0.038510	3.042	
			24695.3680	0.247801	318.994	0.012313
37°25'	83231.7400	30.828569	6076.0690	0.038501	3.041	
			24710.2361	0.247911	319.328	0.012313
37°26'	85081.4542	30.828657	6078.3791	0.038493	3.041	
			24725.1107	0.248021	319.663	0.012313
37°27'	86931.1736	30.828744	6080.6887	0.038484	3.041	
			24739.9920	0.248131	319.998	0.012313
37°28'	88780.8982	30.828831	6082.9977	0.038476	3.041	
			24754.8799	0.248241	320.334	0.012313
37°29'	90630.6280	30.828918	6085.3063	0.038467	3.041	
			24769.7743	0.248352	320.670	0.012313
37°30'	92480.3631	30.829005	6087.6143	0.038459	3.040	
			24784.6754	0.248462	321.006	0.012313
37°31'	94330.1034	30.829093	6089.9218	0.038450	3.040	
			24799.5832	0.248573	321.343	0.012313
37°32'	96179.8490	30.829180	6092.2288	0.038441	3.040	
			24814.4976	0.248684	321.680	0.012313
37°33'	98029.5998	30.829267	6094.5353	0.038433	3.040	
			24829.4186	0.248795	322.017	0.012313
37°34'	99879.3558	30.829354	6096.8413	0.038424	3.039	
			24844.3463	0.248906	322.355	0.012313
37°35'	101729.1171	30.829441	6099.1467	0.038416	3.039	
			24859.2806	0.249017	322.694	0.012313
37°36'	103578.8835	30.829529	6101.4516	0.038407	3.039	
			24874.2216	0.249128	323.032	0.012313
37°37'	105428.6553	30.829616	6103.7561	0.038398	3.039	
			24889.1693	0.249239	323.372	0.012313
37°38'	107278.4322	30.829703	6106.0600	0.038390	3.038	
			24904.1237	0.249351	323.711	0.012313
37°39'	109128.2144	30.829791	6108.3633	0.038381	3.038	
			24919.0847	0.249462	324.051	0.012313
37°40'	110978.0019	30.829878	6110.6662	0.038373	3.038	
			24934.0525	0.249574	324.392	0.012313
37°41'	112827.7946	30.829965	6112.9686	0.038364	3.038	
			24949.0269	0.249686	324.732	0.012312
37°42'	114677.5925	30.830053	6115.2704	0.038355	3.038	
			24964.0081	0.249798	325.074	0.012312
37°43'	116527.3956	30.830140	6117.5717	0.038347	3.037	
			24978.9959	0.249910	325.415	0.012312
37°44'	118377.2041	30.830228	6119.8725	0.038338	3.037	
			24993.9905	0.250022	325.757	0.012312
37°45'	120227.0177	30.830315	6122.1728	0.038329	3.037	
			25008.9919	0.250134	326.100	0.012312

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0008

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°46'	122076.8366	30.830402	6124.4726	0.038321	3.037	
			25023.9999	0.250247	326.443	0.012312
37°47'	123926.6607	30.830490	6126.7718	0.038312	3.036	
			25039.0147	0.250359	326.786	0.012312
37°48'	125776.4901	30.830577	6129.0705	0.038303	3.036	
			25054.0363	0.250472	327.130	0.012312
37°49'	127626.3248	30.830665	6131.3687	0.038295	3.036	
			25069.0646	0.250585	327.474	0.012312
37°50'	129476.1646	30.830752	6133.6664	0.038286	3.036	
			25084.0997	0.250698	327.819	0.012312
37°51'	131326.0098	30.830840	6135.9636	0.038278	3.035	
			25099.1416	0.250811	328.164	0.012312
37°52'	133175.8602	30.830927	6138.2603	0.038269	3.035	
			25114.1902	0.250924	328.509	0.012312
37°53'	135025.7158	30.831015	6140.5564	0.038260	3.035	
			25129.2456	0.251037	328.855	0.012312
37°54'	136875.5767	30.831102	6142.8520	0.038252	3.035	
			25144.3079	0.251150	329.201	0.012312
37°55'	138725.4428	30.831190	6145.1471	0.038243	3.034	
			25159.3769	0.251264	329.548	0.012312
37°56'	140575.3142	30.831277	6147.4417	0.038234	3.034	
			25174.4527	0.251378	329.895	0.012312
37°57'	142425.1908	30.831365	6149.7357	0.038226	3.034	
			25189.5354	0.251491	330.243	0.012312
37°58'	144275.0727	30.831452	6152.0293	0.038217	3.034	
			25204.6249	0.251605	330.591	0.012312
37°59'	146124.9598	30.831540	6154.3223	0.038208	3.033	
			25219.7212	0.251719	330.939	0.012312
38° 0'	147974.8522	30.831628	6156.6148	0.038199	3.033	
			25234.8243	0.251833	331.288	0.012312
38° 1'	149824.7499	30.831715	6158.9067	0.038191	3.033	
			25249.9343	0.251947	331.637	0.012312
38° 2'	151674.6528	30.831803	6161.1982	0.038182	3.032	
			25265.0511	0.252062	331.987	0.012312
38° 3'	153524.5610	30.831891	6163.4891	0.038173	3.032	
			25280.1748	0.252176	332.337	0.012311
38° 4'	155374.4744	30.831978	6165.7795	0.038165	3.032	
			25295.3054	0.252291	332.688	0.012311
38° 5'	157224.3931	30.832066	6168.0694	0.038156	3.032	
			25310.4428	0.252405	333.039	0.012311
38° 6'	159074.3171	30.832154	6170.3588	0.038147	3.031	
			25325.5872	0.252520	333.390	0.012311
38° 7'	160924.2463	30.832241	6172.6476	0.038139	3.031	
			25340.7384	0.252635	333.742	0.012311

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38° 8'	162774.1807	30.832329	6174.9359	0.038130	3.031	
			25355.8965	0.252750	334.094	0.012311
38° 9'	164624.1205	30.832417	6177.2237	0.038121	3.031	
			25371.0615	0.252865	334.447	0.012311
38°10'	166474.0655	30.832504	6179.5110	0.038112	3.030	
			25386.2334	0.252981	334.800	0.012311
38°11'	168324.0157	30.832592	6181.7977	0.038104	3.030	
			25401.4122	0.253096	335.154	0.012311
38°12'	170173.9713	30.832680	6184.0840	0.038095	3.030	
			25416.5980	0.253212	335.508	0.012311
38°13'	172023.9321	30.832768	6186.3697	0.038086	3.029	
			25431.7907	0.253327	335.863	0.012311
38°14'	173873.8981	30.832855	6188.6548	0.038078	3.029	
			25446.9903	0.253443	336.217	0.012311
38°15'	175723.8695	30.832943	6190.9395	0.038069	3.029	
			25462.1969	0.253559	336.573	0.012311
38°16'	177573.8461	30.833031	6193.2236	0.038060	3.029	
			25477.4105	0.253675	336.929	0.012311
38°17'	179423.8279	30.833119	6195.5072	0.038051	3.028	
			25492.6310	0.253791	337.285	0.012311
38°18'	181273.8150	30.833207	6197.7903	0.038043	3.028	
			25507.8584	0.253907	337.642	0.012311
38°19'	183123.8075	30.833295	6200.0729	0.038034	3.028	
			25523.0929	0.254024	337.999	0.012311
38°20'	184973.8051	30.833382	6202.3549	0.038025	3.027	
			25538.3343	0.254140	338.356	0.012311
38°21'	186823.8081	30.833470	6204.6364	0.038016	3.027	
			25553.5827	0.254257	338.714	0.012311
38°22'	188673.8163	30.833558	6206.9174	0.038008	3.027	
			25568.8382	0.254374	339.073	0.012311
38°23'	190523.8298	30.833646	6209.1979	0.037999	3.026	
			25584.1006	0.254491	339.432	0.012311
38°24'	192373.8485	30.833734	6211.4778	0.037990	3.026	
			25599.3700	0.254608	339.791	0.012310
38°25'	194223.8726	30.833822	6213.7572	0.037981	3.026	
			25614.6465	0.254725	340.151	0.012310
38°26'	196073.9019	30.833910	6216.0361	0.037973	3.026	
			25629.9300	0.254842	340.511	0.012310
38°27'	197923.9365	30.833998	6218.3145	0.037964	3.025	
			25645.2205	0.254960	340.872	0.012310
38°28'	199773.9764	30.834086	6220.5923	0.037955	3.025	
			25660.5181	0.255077	341.233	0.012310
38°29'	201624.0215	30.834174	6222.8696	0.037946	3.025	
			25675.8227	0.255195	341.594	0.012310

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°30'	203474.0719	30.834262	6225.1464	0.037938	3.024	
			25691.1344	0.255312	341.956	0.012310
38°31'	205324.1276	30.834350	6227.4226	0.037929	3.024	
			25706.4531	0.255430	342.319	0.012310
38°32'	207174.1886	30.834438	6229.6983	0.037920	3.024	
			25721.7790	0.255548	342.682	0.012310
38°33'	209024.2549	30.834526	6231.9735	0.037911	3.023	
			25737.1119	0.255667	343.045	0.012310
38°34'	210874.3264	30.834614	6234.2482	0.037902	3.023	
			25752.4519	0.255785	343.409	0.012310
38°35'	212724.4033	30.834702	6236.5224	0.037894	3.023	
			25767.7989	0.255903	343.773	0.012310
38°36'	214574.4854	30.834790	6238.7960	0.037885	3.022	
			25783.1531	0.256022	344.138	0.012310
38°37'	216424.5728	30.834878	6241.0691	0.037876	3.022	
			25798.5144	0.256140	344.503	0.012310
38°38'	218274.6655	30.834966	6243.3416	0.037867	3.022	
			25813.8829	0.256259	344.869	0.012310
38°39'	220124.7634	30.835054	6245.6136	0.037858	3.021	
			25829.2584	0.256378	345.235	0.012310
38°40'	221974.8667	30.835142	6247.8851	0.037850	3.021	
			25844.6411	0.256497	345.602	0.012310
38°41'	223824.9752	30.835230	6250.1561	0.037841	3.021	
			25860.0309	0.256616	345.969	0.012310
38°42'	225675.0890	30.835319	6252.4266	0.037832	3.020	
			25875.4279	0.256736	346.336	0.012310
38°43'	227525.2081	30.835407	6254.6965	0.037823	3.020	
			25890.8320	0.256855	346.704	0.012310
38°44'	229375.3325	30.835495	6256.9659	0.037814	3.020	
			25906.2433	0.256974	347.072	0.012310
38°45'	231225.4622	30.835583	6259.2347	0.037805	3.019	
			25921.6618	0.257094	347.441	0.012309
38°46'	233075.5972	30.835671	6261.5030	0.037797	3.019	
			25937.0874	0.257214	347.811	0.012309
38°47'	234925.7375	30.835759	6263.7708	0.037788	3.019	
			25952.5203	0.257334	348.180	0.012309
38°48'	236775.8830	30.835848	6266.0381	0.037779	3.018	
			25967.9603	0.257454	348.551	0.012309
38°49'	238626.0339	30.835936	6268.3049	0.037770	3.018	
			25983.4075	0.257574	348.921	0.012309
38°50'	240476.1900	30.836024	6270.5711	0.037761	3.018	
			25998.8620	0.257694	349.293	0.012309
38°51'	242326.3515	30.836112	6272.8367	0.037752	3.017	
			26014.3236	0.257815	349.664	0.012309

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°52'	244176.5182	30.836200	6275.1019	0.037744	3.017	
			26029.7925	0.257935	350.036	0.012309
38°53'	246026.6902	30.836289	6277.3665	0.037735	3.017	
			26045.2686	0.258056	350.409	0.012309
38°54'	247876.8676	30.836377	6279.6306	0.037726	3.016	
			26060.7520	0.258177	350.782	0.012309
38°55'	249727.0502	30.836465	6281.8941	0.037717	3.016	
			26076.2426	0.258298	351.156	0.012309
38°56'	251577.2381	30.836554	6284.1571	0.037708	3.016	
			26091.7405	0.258419	351.530	0.012309
38°57'	253427.4313	30.836642	6286.4196	0.037699	3.015	
			26107.2456	0.258540	351.904	0.012309
38°58'	255277.6298	30.836730	6288.6816	0.037690	3.015	
			26122.7580	0.258661	352.279	0.012309
38°59'	257127.8336	30.836819	6290.9430	0.037682	3.015	
			26138.2777	0.258783	352.654	0.012309
39° 0'	258978.0427	30.836907	6293.2039	0.037673	3.014	
			26153.8047	0.258904	353.030	0.012309
39° 1'	260828.2572	30.836995	6295.4643	0.037664	3.014	
			26169.3389	0.259026	353.407	0.012309
39° 2'	262678.4769	30.837084	6297.7241	0.037655	3.014	
			26184.8805	0.259148	353.783	0.012309
39° 3'	264528.7019	30.837172	6299.9834	0.037646	3.013	
			26200.4294	0.259270	354.161	0.012309
39° 4'	266378.9322	30.837260	6302.2422	0.037637	3.013	
			26215.9856	0.259392	354.538	0.012309
39° 5'	268229.1678	30.837349	6304.5004	0.037628	3.013	
			26231.5491	0.259514	354.917	0.012309
39° 6'	270079.4087	30.837437	6306.7581	0.037619	3.012	
			26247.1200	0.259637	355.295	0.012309
39° 7'	271929.6550	30.837526	6309.0152	0.037610	3.012	
			26262.6982	0.259759	355.675	0.012308
39° 8'	273779.9065	30.837614	6311.2719	0.037602	3.011	
			26278.2838	0.259882	356.054	0.012308
39° 9'	275630.1634	30.837702	6313.5280	0.037593	3.011	
			26293.8767	0.260005	356.434	0.012308
39°10'	277480.4255	30.837791	6315.7835	0.037584	3.011	
			26309.4770	0.260128	356.815	0.012308
39°11'	279330.6929	30.837879	6318.0385	0.037575	3.010	
			26325.0846	0.260251	357.196	0.012308
39°12'	281180.9657	30.837968	6320.2930	0.037566	3.010	
			26340.6996	0.260374	357.578	0.012308
39°13'	283031.2438	30.838056	6322.5470	0.037557	3.010	
			26356.3221	0.260497	357.960	0.012308

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°14'	284881.5272	30.838145	6324.8004	0.037548	3.009	
			26371.9519	0.260621	358.342	0.012308
39°15'	286731.8158	30.838233	6327.0533	0.037539	3.009	
			26387.5891	0.260744	358.725	0.012308
39°16'	288582.1098	30.838322	6329.3056	0.037530	3.008	
			26403.2338	0.260868	359.109	0.012308
39°17'	290432.4092	30.838410	6331.5574	0.037521	3.008	
			26418.8858	0.260992	359.493	0.012308
39°18'	292282.7138	30.838499	6333.8087	0.037512	3.008	
			26434.5453	0.261116	359.878	0.012308
39°19'	294133.0237	30.838587	6336.0595	0.037503	3.007	
			26450.2123	0.261240	360.263	0.012308
39°20'	295983.3390	30.838676	6338.3097	0.037494	3.007	
			26465.8866	0.261364	360.648	0.012308
39°21'	297833.6595	30.838765	6340.5593	0.037486	3.007	
			26481.5685	0.261488	361.034	0.012308
39°22'	299683.9854	30.838853	6342.8085	0.037477	3.006	
			26497.2578	0.261613	361.421	0.012308
39°23'	301534.3166	30.838942	6345.0571	0.037468	3.006	
			26512.9545	0.261737	361.807	0.012308
39°24'	303384.6531	30.839030	6347.3051	0.037459	3.005	
			26528.6588	0.261862	362.195	0.012308
39°25'	305234.9949	30.839119	6349.5527	0.037450	3.005	
			26544.3705	0.261987	362.583	0.012308
39°26'	307085.3420	30.839208	6351.7996	0.037441	3.005	
			26560.0897	0.262112	362.971	0.012308
39°27'	308935.6945	30.839296	6354.0461	0.037432	3.004	
			26575.8164	0.262237	363.360	0.012308
39°28'	310786.0523	30.839385	6356.2920	0.037423	3.004	
			26591.5507	0.262362	363.750	0.012307
39°29'	312636.4154	30.839474	6358.5374	0.037414	3.003	
			26607.2924	0.262488	364.140	0.012307
39°30'	314486.7838	30.839562	6360.7822	0.037405	3.003	
			26623.0417	0.262613	364.530	0.012307
39°31'	316337.1575	30.839651	6363.0265	0.037396	3.003	
			26638.7985	0.262739	364.921	0.012307
39°32'	318187.5366	30.839740	6365.2703	0.037387	3.002	
			26654.5629	0.262865	365.312	0.012307
39°33'	320037.9209	30.839828	6367.5135	0.037378	3.002	
			26670.3348	0.262991	365.704	0.012307
39°34'	321888.3106	30.839917	6369.7562	0.037369	3.001	
			26686.1142	0.263117	366.097	0.012307
39°35'	323738.7056	30.840006	6371.9983	0.037360	3.001	
			26701.9012	0.263243	366.490	0.012307

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°36'	325589.1060	30.840094	6374.2399	0.037351	3.001	
			26717.6958	0.263370	366.883	0.012307
39°37'	327439.5116	30.840183	6376.4810	0.037342	3.000	
			26733.4980	0.263496	367.277	0.012307
39°38'	329289.9226	30.840272	6378.7215	0.037333	3.000	
			26749.3078	0.263623	367.671	0.012307
39°39'	331140.3389	30.840361	6380.9615	0.037324	2.999	
			26765.1252	0.263750	368.066	0.012307
39°40'	332990.7606	30.840449	6383.2009	0.037315	2.999	
			26780.9501	0.263877	368.462	0.012307
39°41'	334841.1876	30.840538	6385.4398	0.037306	2.999	
			26796.7827	0.264004	368.858	0.012307
39°42'	336691.6198	30.840627	6387.6782	0.037297	2.998	
			26812.6230	0.264131	369.254	0.012307
39°43'	338542.0575	30.840716	6389.9160	0.037288	2.998	
			26828.4708	0.264258	369.651	0.012307
39°44'	340392.5004	30.840805	6392.1533	0.037279	2.997	
			26844.3263	0.264386	370.048	0.012307
39°45'	342242.9487	30.840893	6394.3900	0.037270	2.997	
			26860.1894	0.264513	370.446	0.012307
39°46'	344093.4023	30.840982	6396.6262	0.037261	2.996	
			26876.0602	0.264641	370.845	0.012307
39°47'	345943.8612	30.841071	6398.8619	0.037252	2.996	
			26891.9387	0.264769	371.244	0.012307
39°48'	347794.3255	30.841160	6401.0970	0.037243	2.996	
			26907.8248	0.264897	371.643	0.012307
39°49'	349644.7951	30.841249	6403.3316	0.037234	2.995	
			26923.7186	0.265025	372.043	0.012306
39°50'	351495.2700	30.841338	6405.5656	0.037225	2.995	
			26939.6201	0.265153	372.444	0.012306
39°51'	353345.7503	30.841427	6407.7991	0.037216	2.994	
			26955.5293	0.265282	372.845	0.012306
39°52'	355196.2359	30.841515	6410.0320	0.037207	2.994	
			26971.4462	0.265410	373.246	0.012306
39°53'	357046.7268	30.841604	6412.2645	0.037198	2.994	
			26987.3709	0.265539	373.649	0.012306
39°54'	358897.2231	30.841693	6414.4963	0.037189	2.993	
			27003.3032	0.265668	374.051	0.012306
39°55'	360747.7247	30.841782	6416.7276	0.037180	2.993	
			27019.2433	0.265797	374.454	0.012306
39°56'	362598.2316	30.841871	6418.9584	0.037171	2.992	
			27035.1911	0.265926	374.858	0.012306
39°57'	364448.7438	30.841960	6421.1887	0.037162	2.992	
			27051.1467	0.266055	375.262	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°58'	366299.2615	30.842049	6423.4183	0.037152	2.991	
			27067.1100	0.266185	375.667	0.012306
39°59'	368149.7844	30.842138	6425.6475	0.037143	2.991	
			27083.0811	0.266314	376.072	0.012306
40° 0'	370000.3127	30.842227	6427.8761	0.037134	2.990	
			27099.0599	0.266444	376.478	0.012306
40° 1'	371850.8463	30.842316	6430.1042	0.037125	2.990	
			27115.0466	0.266574	376.884	0.012306
40° 2'	373701.3852	30.842405	6432.3317	0.037116	2.990	
			27131.0410	0.266704	377.291	0.012306
40° 3'	375551.9295	30.842494	6434.5586	0.037107	2.989	
			27147.0432	0.266834	377.698	0.012306
40° 4'	377402.4792	30.842583	6436.7851	0.037098	2.989	
			27163.0533	0.266964	378.106	0.012306
40° 5'	379253.0341	30.842672	6439.0110	0.037089	2.988	
			27179.0711	0.267095	378.514	0.012306
40° 6'	381103.5944	30.842761	6441.2363	0.037080	2.988	
			27195.0968	0.267225	378.923	0.012306
40° 7'	382954.1601	30.842850	6443.4611	0.037071	2.987	
			27211.1303	0.267356	379.332	0.012306
40° 8'	384804.7311	30.842939	6445.6853	0.037062	2.987	
			27227.1716	0.267487	379.742	0.012306
40° 9'	386655.3074	30.843028	6447.9090	0.037053	2.986	
			27243.2208	0.267618	380.153	0.012306
40°10'	388505.8891	30.843117	6450.1322	0.037044	2.986	
			27259.2779	0.267749	380.564	0.012305
40°11'	390356.4761	30.843206	6452.3548	0.037034	2.986	
			27275.3428	0.267880	380.975	0.012305
40°12'	392207.0685	30.843295	6454.5769	0.037025	2.985	
			27291.4156	0.268011	381.387	0.012305
40°13'	394057.6662	30.843384	6456.7984	0.037016	2.985	
			27307.4963	0.268143	381.800	0.012305
40°14'	395908.2693	30.843473	6459.0194	0.037007	2.984	
			27323.5848	0.268274	382.213	0.012305
40°15'	397758.8777	30.843563	6461.2398	0.036998	2.984	
			27339.6813	0.268406	382.626	0.012305
40°16'	399609.4914	30.843652	6463.4597	0.036989	2.983	
			27355.7857	0.268538	383.041	0.012305
40°17'	401460.1105	30.843741	6465.6790	0.036980	2.983	
			27371.8980	0.268670	383.455	0.012305
40°18'	403310.7350	30.843830	6467.8978	0.036971	2.982	
			27388.0182	0.268803	383.871	0.012305
40°19'	405161.3648	30.843919	6470.1160	0.036962	2.982	
			27404.1464	0.268935	384.286	0.012305

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.001

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°20'	407011.9999	30.844008	6472.3337	0.036952	2.981	
			27420.2825	0.269068	384.703	0.012305
40°21'	408862.6404	30.844097	6474.5509	0.036943	2.981	
			27436.4265	0.269200	385.120	0.012305
40°22'	410713.2863	30.844187	6476.7675	0.036934	2.980	
			27452.5785	0.269333	385.537	0.012305
40°23'	412563.9374	30.844276	6478.9835	0.036925	2.980	
			27468.7385	0.269466	385.955	0.012305
40°24'	414414.5940	30.844365	6481.1990	0.036916	2.979	
			27484.9065	0.269599	386.373	0.012305
40°25'	416265.2559	30.844454	6483.4140	0.036907	2.979	
			27501.0824	0.269732	386.793	0.012305
40°26'	418115.9231	30.844543	6485.6284	0.036898	2.979	
			27517.2664	0.269866	387.212	0.012305
40°27'	419966.5957	30.844633	6487.8422	0.036888	2.978	
			27533.4583	0.269999	387.632	0.012305
40°28'	421817.2737	30.844722	6490.0555	0.036879	2.978	
			27549.6583	0.270133	388.053	0.012305
40°29'	423667.9570	30.844811	6492.2683	0.036870	2.977	
			27565.8662	0.270267	388.474	0.012305
40°30'	425518.6456	30.844900	6494.4805	0.036861	2.977	
			27582.0823	0.270401	388.896	0.012305
40°31'	427369.3397	30.844989	6496.6921	0.036852	2.976	
			27598.3063	0.270535	389.318	0.012304
40°32'	429220.0390	30.845079	6498.9032	0.036843	2.976	
			27614.5384	0.270669	389.741	0.012304
40°33'	431070.7437	30.845168	6501.1138	0.036833	2.975	
			27630.7786	0.270804	390.165	0.012304
40°34'	432921.4538	30.845257	6503.3238	0.036824	2.975	
			27647.0268	0.270938	390.589	0.012304
40°35'	434772.1693	30.845347	6505.5333	0.036815	2.974	
			27663.2831	0.271073	391.013	0.012304
40°36'	436622.8900	30.845436	6507.7422	0.036806	2.974	
			27679.5474	0.271208	391.438	0.012304
40°37'	438473.6162	30.845525	6509.9505	0.036797	2.973	
			27695.8199	0.271343	391.864	0.012304
40°38'	440324.3477	30.845614	6512.1583	0.036788	2.973	
			27712.1005	0.271478	392.290	0.012304
40°39'	442175.0846	30.845704	6514.3656	0.036778	2.972	
			27728.3891	0.271613	392.717	0.012304
40°40'	444025.8268	30.845793	6516.5723	0.036769	2.972	
			27744.6859	0.271749	393.144	0.012304
40°41'	445876.5744	30.845882	6518.7784	0.036760	2.971	
			27760.9909	0.271884	393.572	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°42'	447727.3273	30.845972	6520.9840	0.036751	2.971	
			27777.3039	0.272020	394.001	0.012304
40°43'	449578.0856	30.846061	6523.1891	0.036742	2.970	
			27793.6251	0.272156	394.430	0.012304
40°44'	451428.8493	30.846150	6525.3936	0.036732	2.970	
			27809.9545	0.272292	394.859	0.012304
40°45'	453279.6183	30.846240	6527.5975	0.036723	2.969	
			27826.2920	0.272428	395.289	0.012304
40°46'	455130.3927	30.846329	6529.8009	0.036714	2.969	
			27842.6377	0.272564	395.720	0.012304
40°47'	456981.1725	30.846419	6532.0038	0.036705	2.968	
			27858.9915	0.272701	396.151	0.012304
40°48'	458831.9576	30.846508	6534.2060	0.036696	2.968	
			27875.3536	0.272838	396.583	0.012304
40°49'	460682.7481	30.846597	6536.4078	0.036686	2.967	
			27891.7239	0.272974	397.016	0.012304
40°50'	462533.5439	30.846687	6538.6090	0.036677	2.967	
			27908.1023	0.273111	397.449	0.012304
40°51'	464384.3451	30.846776	6540.8096	0.036668	2.966	
			27924.4890	0.273248	397.882	0.012304
40°52'	466235.1517	30.846866	6543.0097	0.036659	2.966	
			27940.8839	0.273386	398.316	0.012303
40°53'	468085.9636	30.846955	6545.2092	0.036649	2.965	
			27957.2871	0.273523	398.751	0.012303
40°54'	469936.7809	30.847044	6547.4081	0.036640	2.965	
			27973.6984	0.273661	399.186	0.012303
40°55'	471787.6036	30.847134	6549.6065	0.036631	2.964	
			27990.1181	0.273798	399.622	0.012303
40°56'	473638.4316	30.847223	6551.8044	0.036622	2.964	
			28006.5460	0.273936	400.058	0.012303
40°57'	475489.2650	30.847313	6554.0017	0.036612	2.963	
			28022.9821	0.274074	400.495	0.012303
40°58'	477340.1038	30.847402	6556.1985	0.036603	2.963	
			28039.4266	0.274212	400.933	0.012303
40°59'	479190.9479	30.847492	6558.3947	0.036594	2.962	
			28055.8793	0.274351	401.371	0.012303
41° 0'	481041.7974	30.847581	6560.5903	0.036585	2.962	
			28072.3403	0.274489	401.810	0.012303
41° 1'	482892.6523	30.847671	6562.7854	0.036575	2.961	
			28088.8097	0.274628	402.249	0.012303
41° 2'	484743.5126	30.847760	6564.9799	0.036566	2.960	
			28105.2873	0.274766	402.689	0.012303
41° 3'	486594.3782	30.847850	6567.1739	0.036557	2.960	
			28121.7733	0.274905	403.129	0.012303

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41° 4'	488445.2492	30.847939	6569.3673	0.036548	2.959	
			28138.2676	0.275044	403.571	0.012303
41° 5'	490296.1255	30.848029	6571.5602	0.036538	2.959	
			28154.7703	0.275183	404.012	0.012303
41° 6'	492147.0073	30.848118	6573.7525	0.036529	2.958	
			28171.2813	0.275323	404.454	0.012303
41° 7'	493997.8944	30.848208	6575.9442	0.036520	2.958	
			28187.8007	0.275462	404.897	0.012303
41° 8'	495848.7868	30.848297	6578.1354	0.036511	2.957	
			28204.3284	0.275602	405.341	0.012303
41° 9'	497699.6847	30.848387	6580.3260	0.036501	2.957	
			28220.8645	0.275742	405.784	0.012303
41°10'	499550.5879	30.848477	6582.5161	0.036492	2.956	
			28237.4090	0.275882	406.229	0.012303
41°11'	501401.4965	30.848566	6584.7056	0.036483	2.956	
			28253.9619	0.276022	406.674	0.012303
41°12'	503252.4105	30.848656	6586.8946	0.036473	2.955	
			28270.5232	0.276162	407.120	0.012303
41°13'	505103.3298	30.848745	6589.0830	0.036464	2.955	
			28287.0930	0.276303	407.566	0.012302
41°14'	506954.2545	30.848835	6591.2709	0.036455	2.954	
			28303.6711	0.276443	408.013	0.012302
41°15'	508805.1846	30.848924	6593.4582	0.036446	2.954	
			28320.2577	0.276584	408.461	0.012302
41°16'	510656.1201	30.849014	6595.6449	0.036436	2.953	
			28336.8527	0.276725	408.909	0.012302
41°17'	512507.0609	30.849104	6597.8311	0.036427	2.952	
			28353.4562	0.276866	409.357	0.012302
41°18'	514358.0071	30.849193	6600.0167	0.036418	2.952	
			28370.0682	0.277007	409.807	0.012302
41°19'	516208.9587	30.849283	6602.2017	0.036408	2.951	
			28386.6886	0.277148	410.257	0.012302
41°20'	518059.9157	30.849373	6604.3862	0.036399	2.951	
			28403.3175	0.277290	410.707	0.012302
41°21'	519910.8781	30.849462	6606.5702	0.036390	2.950	
			28419.9549	0.277432	411.158	0.012302
41°22'	521761.8458	30.849552	6608.7536	0.036380	2.950	
			28436.6008	0.277573	411.610	0.012302
41°23'	523612.8189	30.849642	6610.9364	0.036371	2.949	
			28453.2552	0.277715	412.062	0.012302
41°24'	525463.7974	30.849731	6613.1187	0.036362	2.949	
			28469.9181	0.277858	412.515	0.012302
41°25'	527314.7813	30.849821	6615.3004	0.036352	2.948	
			28486.5896	0.278000	412.969	0.012302

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°26'	529165.7705	30.849911	6617.4815	0.036343	2.947	
			28503.2696	0.278142	413.423	0.012302
41°27'	531016.7652	30.850000	6619.6621	0.036334	2.947	
			28519.9581	0.278285	413.877	0.012302
41°28'	532867.7652	30.850090	6621.8421	0.036324	2.946	
			28536.6552	0.278428	414.333	0.012302
41°29'	534718.7706	30.850180	6624.0216	0.036315	2.946	
			28553.3609	0.278571	414.789	0.012302
41°30'	536569.7813	30.850269	6626.2005	0.036306	2.945	
			28570.0751	0.278714	415.245	0.012302
41°31'	538420.7975	30.850359	6628.3788	0.036296	2.945	
			28586.7979	0.278857	415.702	0.012302
41°32'	540271.8190	30.850449	6630.5566	0.036287	2.944	
			28603.5294	0.279000	416.160	0.012302
41°33'	542122.8460	30.850538	6632.7338	0.036278	2.944	
			28620.2694	0.279144	416.618	0.012302
41°34'	543973.8783	30.850628	6634.9105	0.036268	2.943	
			28637.0180	0.279288	417.077	0.012301
41°35'	545824.9160	30.850718	6637.0866	0.036259	2.942	
			28653.7753	0.279431	417.537	0.012301
41°36'	547675.9590	30.850808	6639.2621	0.036250	2.942	
			28670.5412	0.279576	417.997	0.012301
41°37'	549527.0075	30.850897	6641.4371	0.036240	2.941	
			28687.3157	0.279720	418.458	0.012301
41°38'	551378.0614	30.850987	6643.6115	0.036231	2.941	
			28704.0989	0.279864	418.919	0.012301
41°39'	553229.1206	30.851077	6645.7854	0.036221	2.940	
			28720.8907	0.280009	419.382	0.012301
41°40'	555080.1852	30.851167	6647.9587	0.036212	2.939	
			28737.6912	0.280153	419.844	0.012301
41°41'	556931.2552	30.851257	6650.1314	0.036203	2.939	
			28754.5004	0.280298	420.308	0.012301
41°42'	558782.3306	30.851346	6652.3035	0.036193	2.938	
			28771.3183	0.280443	420.771	0.012301
41°43'	560633.4114	30.851436	6654.4751	0.036184	2.938	
			28788.1449	0.280588	421.236	0.012301
41°44'	562484.4975	30.851526	6656.6462	0.036175	2.937	
			28804.9802	0.280734	421.701	0.012301
41°45'	564335.5891	30.851616	6658.8167	0.036165	2.937	
			28821.8242	0.280879	422.167	0.012301
41°46'	566186.6860	30.851705	6660.9866	0.036156	2.936	
			28838.6770	0.281025	422.633	0.012301
41°47'	568037.7884	30.851795	6663.1559	0.036146	2.935	
			28855.5384	0.281170	423.100	0.012301

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°48'	569888.8961	30.851885	6665.3247	0.036137	2.935	
			28872.4087	0.281316	423.568	0.012301
41°49'	571740.0092	30.851975	6667.4929	0.036128	2.934	
			28889.2876	0.281463	424.036	0.012301
41°50'	573591.1277	30.852065	6669.6606	0.036118	2.934	
			28906.1754	0.281609	424.505	0.012301
41°51'	575442.2516	30.852155	6671.8277	0.036109	2.933	
			28923.0719	0.281755	424.975	0.012301
41°52'	577293.3809	30.852244	6673.9942	0.036099	2.932	
			28939.9772	0.281902	425.445	0.012301
41°53'	579144.5155	30.852334	6676.1602	0.036090	2.932	
			28956.8914	0.282049	425.916	0.012301
41°54'	580995.6556	30.852424	6678.3256	0.036081	2.931	
			28973.8143	0.282196	426.387	0.012301
41°55'	582846.8010	30.852514	6680.4904	0.036071	2.931	
			28990.7460	0.282343	426.859	0.012300
41°56'	584697.9519	30.852604	6682.6547	0.036062	2.930	
			29007.6866	0.282490	427.332	0.012300
41°57'	586549.1081	30.852694	6684.8184	0.036052	2.929	
			29024.6360	0.282637	427.806	0.012300
41°58'	588400.2698	30.852784	6686.9815	0.036043	2.929	
			29041.5942	0.282785	428.280	0.012300
41°59'	590251.4368	30.852874	6689.1441	0.036033	2.928	
			29058.5613	0.282933	428.754	0.012300
42° 0'	592102.6092	30.852963	6691.3061	0.036024	2.928	
			29075.5373	0.283081	429.230	0.012300
42° 1'	593953.7870	30.853053	6693.4675	0.036015	2.927	
			29092.5221	0.283229	429.706	0.012300
42° 2'	595804.9702	30.853143	6695.6284	0.036005	2.926	
			29109.5158	0.283377	430.182	0.012300
42° 3'	597656.1588	30.853233	6697.7887	0.035996	2.926	
			29126.5184	0.283525	430.659	0.012300
42° 4'	599507.3528	30.853323	6699.9484	0.035986	2.925	
			29143.5300	0.283674	431.137	0.012300
42° 5'	601358.5522	30.853413	6702.1076	0.035977	2.925	
			29160.5504	0.283823	431.616	0.012300
42° 6'	603209.7570	30.853503	6704.2662	0.035967	2.924	
			29177.5798	0.283972	432.095	0.012300
42° 7'	605060.9671	30.853593	6706.4242	0.035958	2.923	
			29194.6181	0.284121	432.575	0.012300
42° 8'	606912.1827	30.853683	6708.5817	0.035948	2.923	
			29211.6653	0.284270	433.055	0.012300
42° 9'	608763.4037	30.853773	6710.7386	0.035939	2.922	
			29228.7215	0.284419	433.536	0.012300

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°10'	610614.6301	30.853863	6712.8949	0.035929	2.922	
			29245.7866	0.284569	434.018	0.012300
42°11'	612465.8618	30.853953	6715.0507	0.035920	2.921	
			29262.8608	0.284719	434.501	0.012300
42°12'	614317.0990	30.854043	6717.2059	0.035910	2.920	
			29279.9439	0.284868	434.984	0.012300
42°13'	616168.3416	30.854133	6719.3605	0.035901	2.920	
			29297.0360	0.285019	435.467	0.012300
42°14'	618019.5895	30.854223	6721.5146	0.035892	2.919	
			29314.1371	0.285169	435.952	0.012300
42°15'	619870.8429	30.854313	6723.6681	0.035882	2.918	
			29331.2472	0.285319	436.437	0.012300
42°16'	621722.1016	30.854403	6725.8210	0.035873	2.918	
			29348.3664	0.285470	436.923	0.012299
42°17'	623573.3658	30.854493	6727.9734	0.035863	2.917	
			29365.4946	0.285621	437.409	0.012299
42°18'	625424.6353	30.854583	6730.1251	0.035854	2.917	
			29382.6318	0.285771	437.896	0.012299
42°19'	627275.9103	30.854673	6732.2763	0.035844	2.916	
			29399.7781	0.285923	438.384	0.012299
42°20'	629127.1907	30.854763	6734.4270	0.035835	2.915	
			29416.9334	0.286074	438.872	0.012299
42°21'	630978.4764	30.854853	6736.5771	0.035825	2.915	
			29434.0979	0.286225	439.361	0.012299
42°22'	632829.7676	30.854943	6738.7266	0.035816	2.914	
			29451.2714	0.286377	439.851	0.012299
42°23'	634681.0641	30.855033	6740.8755	0.035806	2.913	
			29468.4540	0.286529	440.341	0.012299
42°24'	636532.3661	30.855123	6743.0239	0.035797	2.913	
			29485.6457	0.286680	440.832	0.012299
42°25'	638383.6735	30.855213	6745.1717	0.035787	2.912	
			29502.8465	0.286833	441.324	0.012299
42°26'	640234.9862	30.855303	6747.3189	0.035778	2.911	
			29520.0565	0.286985	441.816	0.012299
42°27'	642086.3044	30.855393	6749.4655	0.035768	2.911	
			29537.2756	0.287137	442.309	0.012299
42°28'	643937.6280	30.855483	6751.6116	0.035759	2.910	
			29554.5038	0.287290	442.803	0.012299
42°29'	645788.9569	30.855573	6753.7571	0.035749	2.910	
			29571.7412	0.287443	443.298	0.012299
42°30'	647640.2913	30.855663	6755.9021	0.035739	2.909	
			29588.9877	0.287596	443.793	0.012299
42°31'	649491.6311	30.855753	6758.0464	0.035730	2.908	
			29606.2435	0.287749	444.288	0.012299

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°32'	651342.9763	30.855843	6760.1902	0.035720	2.908	
			29623.5084	0.287902	444.785	0.012299
42°33'	653194.3269	30.855933	6762.3335	0.035711	2.907	
			29640.7825	0.288055	445.282	0.012299
42°34'	655045.6829	30.856023	6764.4761	0.035701	2.906	
			29658.0658	0.288209	445.780	0.012299
42°35'	656897.0443	30.856113	6766.6182	0.035692	2.906	
			29675.3584	0.288363	446.278	0.012299
42°36'	658748.4111	30.856203	6768.7597	0.035682	2.905	
			29692.6601	0.288517	446.777	0.012299
42°37'	660599.7833	30.856294	6770.9006	0.035673	2.904	
			29709.9712	0.288671	447.277	0.012298
42°38'	662451.1609	30.856384	6773.0410	0.035663	2.904	
			29727.2914	0.288825	447.778	0.012298
42°39'	664302.5439	30.856474	6775.1808	0.035654	2.903	
			29744.6209	0.288980	448.279	0.012298
42°40'	666153.9323	30.856564	6777.3200	0.035644	2.902	
			29761.9597	0.289134	448.781	0.012298
42°41'	668005.3262	30.856654	6779.4586	0.035634	2.902	
			29779.3078	0.289289	449.283	0.012298
42°42'	669856.7254	30.856744	6781.5967	0.035625	2.901	
			29796.6651	0.289444	449.787	0.012298
42°43'	671708.1300	30.856834	6783.7342	0.035615	2.900	
			29814.0318	0.289600	450.291	0.012298
42°44'	673559.5401	30.856924	6785.8711	0.035606	2.900	
			29831.4078	0.289755	450.795	0.012298
42°45'	675410.9556	30.857014	6788.0075	0.035596	2.899	
			29848.7931	0.289910	451.301	0.012298
42°46'	677262.3764	30.857105	6790.1432	0.035587	2.898	
			29866.1877	0.290066	451.807	0.012298
42°47'	679113.8027	30.857195	6792.2784	0.035577	2.898	
			29883.5917	0.290222	452.314	0.012298
42°48'	680965.2344	30.857285	6794.4130	0.035567	2.897	
			29901.0050	0.290378	452.821	0.012298
42°49'	682816.6715	30.857375	6796.5471	0.035558	2.896	
			29918.4277	0.290534	453.329	0.012298
42°50'	684668.1140	30.857465	6798.6806	0.035548	2.896	
			29935.8597	0.290691	453.838	0.012298
42°51'	686519.5619	30.857555	6800.8135	0.035539	2.895	
			29953.3012	0.290847	454.348	0.012298
42°52'	688371.0152	30.857646	6802.9458	0.035529	2.894	
			29970.7520	0.291004	454.858	0.012298
42°53'	690222.4740	30.857736	6805.0775	0.035519	2.894	
			29988.2123	0.291161	455.369	0.012298

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

ILLINOIS Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°54'	692073.9381	30.857826	6807.2087	0.035510	2.893	
			30005.6819	0.291318	455.881	0.012298
42°55'	693925.4077	30.857916	6809.3393	0.035500	2.892	
			30023.1610	0.291476	456.393	0.012298
42°56'	695776.8826	30.858006	6811.4693	0.035491	2.892	
			30040.6496	0.291633	456.906	0.012298
42°57'	697628.3630	30.858096	6813.5987	0.035481	2.891	
			30058.1475	0.291791	457.420	0.012298
42°58'	699479.8488	30.858187	6815.7276	0.035471	2.890	
			30075.6550	0.291948	457.934	0.012297
42°59'	701331.3400	30.858277	6817.8559	0.035462	2.890	
			30093.1719	0.292106	458.450	0.012297
43° 0'	703182.8366	30.858367	6819.9836	0.035452	2.889	
			30110.6983	0.292265	458.966	0.012297

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0010	-0.0012

TRANSVERSE MERCATOR PROJECTION

TABLES FOR INDIANA COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: INDIANA EAST
ZONE CODE: 1301

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 37°30' (latitude of grid origin)
λ_b = 85°40' (longitude of origin and Central Meridian, CM)
E_0 = 100000 m (easting coordinate of grid origin)
N_b = 250000 m (northing coordinate of grid origin)
k_0 = 0.999967 (scale along Central Meridian)
latitude range from ϕ_{min} = 37°30' to ϕ_{max} = 42°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  38°15'20".30000
  LONGITUDE:  86°10'30".00000

     p = 10^-4 Δλ  =  -0.18300000
TABULAR  (   I) =   83242.8126
   20.30000 sec =     625.9035
   SECOND DIFF  =      -0.0006
         (   I) =   83868.7156
TABULAR  (  II) =    3648.8709
   20.30000 sec =       0.1734
         (  II) =    3649.0444
TABULAR  ( III) =       1.9465
 N' = (I) + (II)p^2 + (III)p^4 =  83990.921 m
 N  =  N_b + N' =  250000 + 83990.921 =  333990.921 m


TABULAR  (  IV) =  243140.3668
   20.30000 sec =     -18.7897
   SECOND DIFF  =       0.0023
         (  IV) =  243121.5794
TABULAR  (   V) =      22.4793
   20.30000 sec =      -0.0200
         (   V) =      22.4593
TABULAR  (  VI) =      -0.0251
 E' = (IV)p +(V)p^3 + (VI)p^5 = -44491.387 m
 E = E_0 + E' =                 55508.613 m


TABULAR  ( XII) =    6190.9395
   20.30000 sec =       0.7728
         ( XII) =    6191.7123
TABULAR  (XIII) =       3.0288
C = (XII)p + (XIII)p^3 =    -1133".10


  q  = 10^-6 E'   =  -0.04449139
TABULAR  ( XVI) =     0.012311
k = k_0(1 + (XVI)q^2 + 0.00003q^4) =  0.99999104
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.04449139$
$\phi' = 38°15'24''.26349$

TABULAR	(VII) =	2001.8596
24.26349 sec	=	0.4814
	(VII) =	2002.3410
TABULAR	(VIII) =	28.0006
24.26349 sec	=	0.0104
	(VIII) =	28.0110

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 38°15'20''.30000$

TABULAR	(IX) =	41128.5059
24.26349 sec	=	3.7998
SECOND DIFF	=	-0.0009
	(IX) =	41132.3047
TABULAR	(X) =	377.6944
24.26349 sec	=	0.1356
	(X) =	377.8301
TABULAR	(XI) =	6.5358
24.26349 sec	=	0.0042
	(XI) =	6.5400

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 86°10'30''.00000$

TABULAR	(XIV) =	25462.4091
24.26349 sec	=	6.1523
SECOND DIFF	=	-0.0008
	(XIV) =	25468.5606
TABULAR	(XV) =	336.5812
24.26349 sec	=	0.1439
	(XV) =	336.7251

$C = (XIV)q - (XV)q^3 = -1133''.10$

TABULAR (XVI) = 0.012311
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99999104$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: INDIANA WEST
ZONE CODE: 1302

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 37°30' (latitude of grid origin)
λ_b = 87° 5' (longitude of origin and Central Meridian, CM)
E_0 = 900000 m (easting coordinate of grid origin)
N_b = 250000 m (northing coordinate of grid origin)
k_0 = 0.999967 (scale along Central Meridian)
latitude range from ϕ_{min} = 37°30' to ϕ_{max} = 42°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 38°15'20".30000
LONGITUDE: 88°30'20".20000

$p = 10^{-4}\Delta\lambda$ = -0.51202000
TABULAR (I) = 83242.8126
20.30000 sec = 625.9035
SECOND DIFF = -0.0006
(I) = 83868.7156
TABULAR (II) = 3648.8709
20.30000 sec = 0.1734
(II) = 3649.0444
TABULAR (III) = 1.9465
$N' = (I) + (II)p^2 + (III)p^4$ = 84825.499 m
$N = N_b + N'$ = 250000 + 84825.499 = 334825.499 m

TABULAR (IV) = 243140.3668
20.30000 sec = -18.7897
SECOND DIFF = 0.0023
(IV) = 243121.5794
TABULAR (V) = 22.4793
20.30000 sec = -0.0200
(V) = 22.4593
TABULAR (VI) = -0.0251
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -124486.125 m
$E = E_0 + E'$ = 775513.875 m

TABULAR (XII) = 6190.9395
20.30000 sec = 0.7728
(XII) = 6191.7123
TABULAR (XIII) = 3.0288
$C = (XII)p + (XIII)p^3$ = -3170".69

$q = 10^{-6} E'$ = -0.12448613
TABULAR (XVI) = 0.012311
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00015745

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.12448613$
$\phi' = 38°15'51''.33146$

TABULAR	(VII) =	2001.8596
51.33146 sec	=	1.0184
	(VII) =	2002.8780
TABULAR	(VIII) =	28.0006
51.33146 sec	=	0.0219
	(VIII) =	28.0226

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 38°15'20''.30000$

TABULAR	(IX) =	41128.5059
51.33146 sec	=	8.0388
SECOND DIFF	=	-0.0005
	(IX) =	41136.5442
TABULAR	(X) =	377.6944
51.33146 sec	=	0.2870
	(X) =	377.9814
TABULAR	(XI) =	6.5358
51.33146 sec	=	0.0088
	(XI) =	6.5446

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 88°30'20''.19961$

TABULAR	(XIV) =	25462.4091
51.33146 sec	=	13.0157
SECOND DIFF	=	-0.0004
	(XIV) =	25475.4244
TABULAR	(XV) =	336.5812
51.33146 sec	=	0.3044
	(XV) =	336.8856

$C = (XIV)q - (XV)q^3 = -3170''.69$

TABULAR	(XVI) =	0.012311

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00015745$

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°30'	0.0000	30.828748	3624.5348	0.009464	1.988
	245618.0462	-0.910039	25.1601	-0.000998	-0.024
37°31'	1849.7249	30.828836	3625.1026	0.009443	1.987
	245563.4438	-0.910387	25.1002	-0.000998	-0.024
37°32'	3699.4550	30.828923	3625.6692	0.009423	1.986
	245508.8206	-0.910734	25.0403	-0.000998	-0.024
37°33'	5549.1904	30.829010	3626.2346	0.009402	1.985
	245454.1766	-0.911081	24.9805	-0.000997	-0.024
37°34'	7398.9310	30.829097	3626.7987	0.009382	1.985
	245399.5117	-0.911429	24.9206	-0.000997	-0.024
37°35'	9248.6768	30.829185	3627.3616	0.009362	1.984
	245344.8260	-0.911776	24.8608	-0.000997	-0.024
37°36'	11098.4279	30.829272	3627.9233	0.009341	1.983
	245290.1194	-0.912123	24.8010	-0.000997	-0.024
37°37'	12948.1842	30.829359	3628.4838	0.009321	1.982
	245235.3921	-0.912470	24.7412	-0.000996	-0.024
37°38'	14797.9458	30.829446	3629.0430	0.009300	1.981
	245180.6439	-0.912817	24.6814	-0.000996	-0.024
37°39'	16647.7126	30.829534	3629.6010	0.009280	1.980
	245125.8749	-0.913164	24.6216	-0.000996	-0.024
37°40'	18497.4846	30.829621	3630.1578	0.009259	1.979
	245071.0851	-0.913510	24.5619	-0.000996	-0.024
37°41'	20347.2619	30.829708	3630.7134	0.009239	1.978
	245016.2744	-0.913857	24.5021	-0.000996	-0.024
37°42'	22197.0444	30.829796	3631.2677	0.009218	1.977
	244961.4430	-0.914204	24.4424	-0.000995	-0.024
37°43'	24046.8321	30.829883	3631.8208	0.009198	1.976
	244906.5908	-0.914550	24.3827	-0.000995	-0.024
37°44'	25896.6251	30.829971	3632.3727	0.009177	1.975
	244851.7178	-0.914897	24.3230	-0.000995	-0.024
37°45'	27746.4233	30.830058	3632.9233	0.009157	1.975
	244796.8240	-0.915243	24.2633	-0.000995	-0.024
37°46'	29596.2268	30.830145	3633.4728	0.009137	1.974
	244741.9094	-0.915589	24.2036	-0.000994	-0.024
37°47'	31446.0356	30.830233	3634.0210	0.009116	1.973
	244686.9741	-0.915935	24.1439	-0.000994	-0.024
37°48'	33295.8495	30.830320	3634.5679	0.009096	1.972
	244632.0180	-0.916282	24.0843	-0.000994	-0.024
37°49'	35145.6687	30.830408	3635.1136	0.009075	1.971
	244577.0411	-0.916628	24.0246	-0.000994	-0.024
37°50'	36995.4932	30.830495	3635.6582	0.009055	1.970
	244522.0434	-0.916974	23.9650	-0.000993	-0.024
37°51'	38845.3229	30.830583	3636.2014	0.009034	1.969
	244467.0250	-0.917320	23.9054	-0.000993	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°52'	40695.1579	30.830670	3636.7435	0.009014	1.968
	244411.9858	-0.917665	23.8458	-0.000993	-0.024
37°53'	42544.9981	30.830758	3637.2843	0.008993	1.967
	244356.9259	-0.918011	23.7863	-0.000993	-0.025
37°54'	44394.8436	30.830845	3637.8239	0.008973	1.966
	244301.8452	-0.918357	23.7267	-0.000992	-0.025
37°55'	46244.6943	30.830933	3638.3622	0.008952	1.965
	244246.7438	-0.918702	23.6672	-0.000992	-0.025
37°56'	48094.5502	30.831020	3638.8994	0.008932	1.964
	244191.6217	-0.919048	23.6076	-0.000992	-0.025
37°57'	49944.4115	30.831108	3639.4353	0.008911	1.963
	244136.4788	-0.919394	23.5481	-0.000992	-0.025
37°58'	51794.2779	30.831195	3639.9699	0.008891	1.963
	244081.3152	-0.919739	23.4886	-0.000991	-0.025
37°59'	53644.1497	30.831283	3640.5034	0.008870	1.962
	244026.1308	-0.920084	23.4291	-0.000991	-0.025
38° 0'	55494.0267	30.831371	3641.0356	0.008850	1.961
	243970.9258	-0.920429	23.3696	-0.000991	-0.025
38° 1'	57343.9089	30.831458	3641.5666	0.008829	1.960
	243915.7000	-0.920775	23.3102	-0.000991	-0.025
38° 2'	59193.7964	30.831546	3642.0963	0.008809	1.959
	243860.4535	-0.921120	23.2507	-0.000990	-0.025
38° 3'	61043.6891	30.831634	3642.6248	0.008788	1.958
	243805.1864	-0.921465	23.1913	-0.000990	-0.025
38° 4'	62893.5872	30.831721	3643.1521	0.008768	1.957
	243749.8985	-0.921810	23.1319	-0.000990	-0.025
38° 5'	64743.4904	30.831809	3643.6782	0.008747	1.956
	243694.5899	-0.922155	23.0725	-0.000990	-0.025
38° 6'	66593.3990	30.831897	3644.2030	0.008726	1.955
	243639.2606	-0.922499	23.0131	-0.000989	-0.025
38° 7'	68443.3128	30.831984	3644.7266	0.008706	1.954
	243583.9107	-0.922844	22.9537	-0.000989	-0.025
38° 8'	70293.2318	30.832072	3645.2489	0.008685	1.953
	243528.5400	-0.923189	22.8944	-0.000989	-0.025
38° 9'	72143.1561	30.832160	3645.7700	0.008665	1.952
	243473.1487	-0.923533	22.8351	-0.000989	-0.025
38°10'	73993.0857	30.832247	3646.2899	0.008644	1.951
	243417.7367	-0.923878	22.7757	-0.000988	-0.025
38°11'	75843.0206	30.832335	3646.8086	0.008624	1.950
	243362.3040	-0.924222	22.7164	-0.000988	-0.025
38°12'	77692.9607	30.832423	3647.3260	0.008603	1.949
	243306.8507	-0.924567	22.6571	-0.000988	-0.025
38°13'	79542.9061	30.832511	3647.8422	0.008583	1.948
	243251.3767	-0.924911	22.5979	-0.000988	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°14'	81392.8567	30.832599	3648.3572	0.008562	1.947
	243195.8821	-0.925255	22.5386	-0.000987	-0.025
38°15'	83242.8126	30.832686	3648.8709	0.008542	1.946
	243140.3668	-0.925599	22.4793	-0.000987	-0.025
38°16'	85092.7738	30.832774	3649.3834	0.008521	1.946
	243084.8308	-0.925943	22.4201	-0.000987	-0.025
38°17'	86942.7402	30.832862	3649.8947	0.008500	1.945
	243029.2742	-0.926287	22.3609	-0.000987	-0.025
38°18'	88792.7120	30.832950	3650.4047	0.008480	1.944
	242973.6970	-0.926631	22.3017	-0.000986	-0.025
38°19'	90642.6889	30.833038	3650.9135	0.008459	1.943
	242918.0992	-0.926975	22.2425	-0.000986	-0.025
38°20'	92492.6712	30.833125	3651.4210	0.008439	1.942
	242862.4807	-0.927318	22.1833	-0.000986	-0.025
38°21'	94342.6587	30.833213	3651.9273	0.008418	1.941
	242806.8416	-0.927662	22.1242	-0.000986	-0.025
38°22'	96192.6515	30.833301	3652.4324	0.008398	1.940
	242751.1819	-0.928006	22.0650	-0.000985	-0.025
38°23'	98042.6496	30.833389	3652.9363	0.008377	1.939
	242695.5015	-0.928349	22.0059	-0.000985	-0.025
38°24'	99892.6530	30.833477	3653.4389	0.008356	1.938
	242639.8006	-0.928693	21.9468	-0.000985	-0.025
38°25'	101742.6616	30.833565	3653.9403	0.008336	1.937
	242584.0790	-0.929036	21.8877	-0.000985	-0.025
38°26'	103592.6755	30.833653	3654.4404	0.008315	1.936
	242528.3368	-0.929379	21.8286	-0.000984	-0.025
38°27'	105442.6946	30.833741	3654.9393	0.008295	1.935
	242472.5741	-0.929722	21.7696	-0.000984	-0.025
38°28'	107292.7191	30.833829	3655.4370	0.008274	1.934
	242416.7907	-0.930066	21.7105	-0.000984	-0.025
38°29'	109142.7488	30.833917	3655.9335	0.008253	1.933
	242360.9868	-0.930409	21.6515	-0.000984	-0.025
38°30'	110992.7838	30.834005	3656.4287	0.008233	1.932
	242305.1623	-0.930752	21.5925	-0.000983	-0.025
38°31'	112842.8241	30.834093	3656.9226	0.008212	1.931
	242249.3172	-0.931094	21.5335	-0.000983	-0.025
38°32'	114692.8697	30.834181	3657.4154	0.008192	1.930
	242193.4515	-0.931437	21.4745	-0.000983	-0.026
38°33'	116542.9205	30.834269	3657.9069	0.008171	1.929
	242137.5653	-0.931780	21.4156	-0.000982	-0.026
38°34'	118392.9767	30.834357	3658.3971	0.008150	1.928
	242081.6585	-0.932123	21.3566	-0.000982	-0.026
38°35'	120243.0381	30.834445	3658.8861	0.008130	1.927
	242025.7311	-0.932465	21.2977	-0.000982	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°36'	122093.1048	30.834533	3659.3739	0.008109	1.926
	241969.7832	-0.932808	21.2388	-0.000982	-0.026
38°37'	123943.1768	30.834621	3659.8605	0.008089	1.925
	241913.8148	-0.933150	21.1799	-0.000981	-0.026
38°38'	125793.2540	30.834709	3660.3458	0.008068	1.924
	241857.8258	-0.933493	21.1210	-0.000981	-0.026
38°39'	127643.3366	30.834797	3660.8299	0.008047	1.923
	241801.8162	-0.933835	21.0621	-0.000981	-0.026
38°40'	129493.4244	30.834885	3661.3127	0.008027	1.922
	241745.7861	-0.934177	21.0032	-0.000981	-0.026
38°41'	131343.5175	30.834973	3661.7943	0.008006	1.921
	241689.7355	-0.934519	20.9444	-0.000980	-0.026
38°42'	133193.6159	30.835062	3662.2746	0.007985	1.920
	241633.6644	-0.934861	20.8856	-0.000980	-0.026
38°43'	135043.7196	30.835150	3662.7538	0.007965	1.919
	241577.5727	-0.935203	20.8268	-0.000980	-0.026
38°44'	136893.8286	30.835238	3663.2317	0.007944	1.918
	241521.4605	-0.935545	20.7680	-0.000980	-0.026
38°45'	138743.9429	30.835326	3663.7083	0.007923	1.917
	241465.3278	-0.935887	20.7092	-0.000979	-0.026
38°46'	140594.0624	30.835414	3664.1837	0.007903	1.916
	241409.1746	-0.936229	20.6505	-0.000979	-0.026
38°47'	142444.1873	30.835502	3664.6579	0.007882	1.915
	241353.0009	-0.936570	20.5917	-0.000979	-0.026
38°48'	144294.3174	30.835591	3665.1308	0.007861	1.914
	241296.8067	-0.936912	20.5330	-0.000978	-0.026
38°49'	146144.4528	30.835679	3665.6025	0.007841	1.913
	241240.5920	-0.937253	20.4743	-0.000978	-0.026
38°50'	147994.5936	30.835767	3666.0729	0.007820	1.912
	241184.3568	-0.937595	20.4156	-0.000978	-0.026
38°51'	149844.7396	30.835855	3666.5421	0.007800	1.911
	241128.1011	-0.937936	20.3570	-0.000978	-0.026
38°52'	151694.8909	30.835943	3667.0101	0.007779	1.910
	241071.8249	-0.938277	20.2983	-0.000977	-0.026
38°53'	153545.0475	30.836032	3667.4768	0.007758	1.909
	241015.5283	-0.938619	20.2397	-0.000977	-0.026
38°54'	155395.2094	30.836120	3667.9423	0.007738	1.908
	240959.2111	-0.938960	20.1810	-0.000977	-0.026
38°55'	157245.3766	30.836208	3668.4066	0.007717	1.907
	240902.8736	-0.939301	20.1224	-0.000976	-0.026
38°56'	159095.5491	30.836297	3668.8696	0.007696	1.906
	240846.5155	-0.939642	20.0639	-0.000976	-0.026
38°57'	160945.7269	30.836385	3669.3314	0.007675	1.905
	240790.1370	-0.939983	20.0053	-0.000976	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°58'	162795.9100	30.836473	3669.7919	0.007655	1.904
	240733.7381	-0.940323	19.9467	-0.000976	-0.026
38°59'	164646.0984	30.836562	3670.2512	0.007634	1.903
	240677.3186	-0.940664	19.8882	-0.000975	-0.026
39° 0'	166496.2921	30.836650	3670.7092	0.007613	1.902
	240620.8788	-0.941005	19.8297	-0.000975	-0.026
39° 1'	168346.4911	30.836738	3671.1660	0.007593	1.901
	240564.4185	-0.941345	19.7712	-0.000975	-0.026
39° 2'	170196.6954	30.836827	3671.6216	0.007572	1.900
	240507.9378	-0.941686	19.7127	-0.000974	-0.026
39° 3'	172046.9050	30.836915	3672.0759	0.007551	1.899
	240451.4366	-0.942026	19.6542	-0.000974	-0.026
39° 4'	173897.1199	30.837003	3672.5290	0.007531	1.898
	240394.9150	-0.942367	19.5958	-0.000974	-0.026
39° 5'	175747.3401	30.837092	3672.9808	0.007510	1.897
	240338.3730	-0.942707	19.5373	-0.000974	-0.026
39° 6'	177597.5656	30.837180	3673.4314	0.007489	1.896
	240281.8106	-0.943047	19.4789	-0.000973	-0.026
39° 7'	179447.7964	30.837269	3673.8808	0.007469	1.895
	240225.2278	-0.943387	19.4205	-0.000973	-0.026
39° 8'	181298.0325	30.837357	3674.3289	0.007448	1.894
	240168.6246	-0.943727	19.3621	-0.000973	-0.026
39° 9'	183148.2739	30.837445	3674.7758	0.007427	1.893
	240112.0009	-0.944067	19.3038	-0.000972	-0.026
39°10'	184998.5207	30.837534	3675.2214	0.007406	1.892
	240055.3569	-0.944407	19.2454	-0.000972	-0.026
39°11'	186848.7727	30.837622	3675.6658	0.007386	1.891
	239998.6925	-0.944747	19.1871	-0.000972	-0.026
39°12'	188699.0300	30.837711	3676.1089	0.007365	1.890
	239942.0076	-0.945087	19.1288	-0.000972	-0.026
39°13'	190549.2927	30.837799	3676.5508	0.007344	1.889
	239885.3024	-0.945426	19.0705	-0.000971	-0.026
39°14'	192399.5606	30.837888	3676.9915	0.007324	1.888
	239828.5769	-0.945766	19.0122	-0.000971	-0.026
39°15'	194249.8339	30.837976	3677.4309	0.007303	1.887
	239771.8309	-0.946105	18.9539	-0.000971	-0.026
39°16'	196100.1125	30.838065	3677.8691	0.007282	1.886
	239715.0646	-0.946445	18.8957	-0.000970	-0.026
39°17'	197950.3964	30.838153	3678.3060	0.007261	1.885
	239658.2779	-0.946784	18.8375	-0.000970	-0.027
39°18'	199800.6856	30.838242	3678.7417	0.007241	1.884
	239601.4708	-0.947123	18.7793	-0.000970	-0.027
39°19'	201650.9801	30.838330	3679.1761	0.007220	1.883
	239544.6434	-0.947463	18.7211	-0.000970	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

INDIANA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°20'	203501.2799	30.838419	3679.6093	0.007199	1.882
	239487.7957	-0.947802	18.6629	-0.000969	-0.027
39°21'	205351.5851	30.838508	3680.0413	0.007178	1.881
	239430.9276	-0.948141	18.6048	-0.000969	-0.027
39°22'	207201.8955	30.838596	3680.4720	0.007158	1.880
	239374.0391	-0.948480	18.5466	-0.000969	-0.027
39°23'	209052.2113	30.838685	3680.9015	0.007137	1.879
	239317.1303	-0.948819	18.4885	-0.000968	-0.027
39°24'	210902.5324	30.838773	3681.3297	0.007116	1.878
	239260.2012	-0.949157	18.4304	-0.000968	-0.027
39°25'	212752.8588	30.838862	3681.7566	0.007095	1.877
	239203.2518	-0.949496	18.3723	-0.000968	-0.027
39°26'	214603.1905	30.838951	3682.1824	0.007075	1.876
	239146.2820	-0.949835	18.3143	-0.000967	-0.027
39°27'	216453.5275	30.839039	3682.6069	0.007054	1.875
	239089.2919	-0.950173	18.2562	-0.000967	-0.027
39°28'	218303.8699	30.839128	3683.0301	0.007033	1.874
	239032.2815	-0.950512	18.1982	-0.000967	-0.027
39°29'	220154.2175	30.839217	3683.4521	0.007012	1.873
	238975.2508	-0.950850	18.1402	-0.000967	-0.027
39°30'	222004.5705	30.839305	3683.8728	0.006992	1.872
	238918.1998	-0.951188	18.0822	-0.000966	-0.027
39°31'	223854.9289	30.839394	3684.2923	0.006971	1.871
	238861.1285	-0.951527	18.0242	-0.000966	-0.027
39°32'	225705.2925	30.839483	3684.7106	0.006950	1.870
	238804.0369	-0.951865	17.9662	-0.000966	-0.027
39°33'	227555.6614	30.839571	3685.1276	0.006929	1.869
	238746.9250	-0.952203	17.9083	-0.000965	-0.027
39°34'	229406.0357	30.839660	3685.5434	0.006909	1.868
	238689.7928	-0.952541	17.8504	-0.000965	-0.027
39°35'	231256.4153	30.839749	3685.9579	0.006888	1.867
	238632.6404	-0.952879	17.7925	-0.000965	-0.027
39°36'	233106.8002	30.839837	3686.3712	0.006867	1.865
	238575.4676	-0.953217	17.7346	-0.000964	-0.027
39°37'	234957.1905	30.839926	3686.7832	0.006846	1.864
	238518.2746	-0.953555	17.6767	-0.000964	-0.027
39°38'	236807.5860	30.840015	3687.1940	0.006826	1.863
	238461.0614	-0.953892	17.6189	-0.000964	-0.027
39°39'	238657.9869	30.840104	3687.6035	0.006805	1.862
	238403.8278	-0.954230	17.5611	-0.000963	-0.027
39°40'	240508.3932	30.840192	3688.0118	0.006784	1.861
	238346.5740	-0.954567	17.5033	-0.000963	-0.027
39°41'	242358.8047	30.840281	3688.4188	0.006763	1.860
	238289.3000	-0.954905	17.4455	-0.000963	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°42'	244209.2216	30.840370	3688.8246	0.006742	1.859
	238232.0057	-0.955242	17.3877	-0.000963	-0.027
39°43'	246059.6438	30.840459	3689.2291	0.006722	1.858
	238174.6911	-0.955580	17.3299	-0.000962	-0.027
39°44'	247910.0713	30.840548	3689.6324	0.006701	1.857
	238117.3564	-0.955917	17.2722	-0.000962	-0.027
39°45'	249760.5041	30.840636	3690.0345	0.006680	1.856
	238060.0014	-0.956254	17.2145	-0.000962	-0.027
39°46'	251610.9423	30.840725	3690.4353	0.006659	1.855
	238002.6261	-0.956591	17.1568	-0.000961	-0.027
39°47'	253461.3858	30.840814	3690.8348	0.006638	1.854
	237945.2307	-0.956928	17.0991	-0.000961	-0.027
39°48'	255311.8347	30.840903	3691.2331	0.006618	1.853
	237887.8150	-0.957265	17.0415	-0.000961	-0.027
39°49'	257162.2889	30.840992	3691.6302	0.006597	1.852
	237830.3791	-0.957602	16.9838	-0.000960	-0.027
39°50'	259012.7484	30.841081	3692.0260	0.006576	1.851
	237772.9230	-0.957939	16.9262	-0.000960	-0.027
39°51'	260863.2132	30.841170	3692.4206	0.006555	1.850
	237715.4467	-0.958275	16.8686	-0.000960	-0.027
39°52'	262713.6834	30.841258	3692.8139	0.006534	1.849
	237657.9501	-0.958612	16.8110	-0.000959	-0.027
39°53'	264564.1589	30.841347	3693.2059	0.006514	1.848
	237600.4334	-0.958948	16.7534	-0.000959	-0.027
39°54'	266414.6397	30.841436	3693.5967	0.006493	1.847
	237542.8965	-0.959285	16.6959	-0.000959	-0.027
39°55'	268265.1259	30.841525	3693.9863	0.006472	1.845
	237485.3394	-0.959621	16.6384	-0.000958	-0.027
39°56'	270115.6174	30.841614	3694.3746	0.006451	1.844
	237427.7622	-0.959957	16.5808	-0.000958	-0.027
39°57'	271966.1143	30.841703	3694.7617	0.006430	1.843
	237370.1647	-0.960294	16.5234	-0.000958	-0.027
39°58'	273816.6164	30.841792	3695.1475	0.006409	1.842
	237312.5471	-0.960630	16.4659	-0.000958	-0.027
39°59'	275667.1240	30.841881	3695.5321	0.006389	1.841
	237254.9093	-0.960966	16.4084	-0.000957	-0.027
40° 0'	277517.6368	30.841970	3695.9154	0.006368	1.840
	237197.2514	-0.961302	16.3510	-0.000957	-0.027
40° 1'	279368.1550	30.842059	3696.2975	0.006347	1.839
	237139.5733	-0.961638	16.2936	-0.000957	-0.027
40° 2'	281218.6785	30.842148	3696.6783	0.006326	1.838
	237081.8750	-0.961973	16.2362	-0.000956	-0.027
40° 3'	283069.2074	30.842237	3697.0578	0.006305	1.837
	237024.1566	-0.962309	16.1788	-0.000956	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40° 4'	284919.7416	30.842326	3697.4362	0.006284	1.836
	236966.4181	-0.962645	16.1215	-0.000956	-0.027
40° 5'	286770.2812	30.842415	3697.8132	0.006264	1.835
	236908.6594	-0.962980	16.0641	-0.000955	-0.027
40° 6'	288620.8261	30.842504	3698.1890	0.006243	1.834
	236850.8805	-0.963316	16.0068	-0.000955	-0.028
40° 7'	290471.3763	30.842593	3698.5636	0.006222	1.833
	236793.0816	-0.963651	15.9495	-0.000955	-0.028
40° 8'	292321.9319	30.842682	3698.9369	0.006201	1.832
	236735.2625	-0.963987	15.8922	-0.000954	-0.028
40° 9'	294172.4928	30.842771	3699.3090	0.006180	1.830
	236677.4233	-0.964322	15.8350	-0.000954	-0.028
40°10'	296023.0590	30.842860	3699.6798	0.006159	1.829
	236619.5640	-0.964657	15.7777	-0.000954	-0.028
40°11'	297873.6306	30.842949	3700.0493	0.006138	1.828
	236561.6846	-0.964992	15.7205	-0.000953	-0.028
40°12'	299724.2076	30.843038	3700.4177	0.006118	1.827
	236503.7850	-0.965327	15.6633	-0.000953	-0.028
40°13'	301574.7899	30.843127	3700.7847	0.006097	1.826
	236445.8654	-0.965662	15.6061	-0.000953	-0.028
40°14'	303425.3775	30.843216	3701.1505	0.006076	1.825
	236387.9257	-0.965997	15.5490	-0.000952	-0.028
40°15'	305275.9705	30.843305	3701.5151	0.006055	1.824
	236329.9659	-0.966332	15.4918	-0.000952	-0.028
40°16'	307126.5688	30.843395	3701.8784	0.006034	1.823
	236271.9860	-0.966666	15.4347	-0.000952	-0.028
40°17'	308977.1725	30.843484	3702.2404	0.006013	1.822
	236213.9860	-0.967001	15.3776	-0.000951	-0.028
40°18'	310827.7815	30.843573	3702.6012	0.005992	1.821
	236155.9659	-0.967336	15.3205	-0.000951	-0.028
40°19'	312678.3959	30.843662	3702.9608	0.005972	1.820
	236097.9258	-0.967670	15.2635	-0.000951	-0.028
40°20'	314529.0156	30.843751	3703.3191	0.005951	1.819
	236039.8656	-0.968004	15.2064	-0.000950	-0.028
40°21'	316379.6407	30.843840	3703.6761	0.005930	1.817
	235981.7853	-0.968339	15.1494	-0.000950	-0.028
40°22'	318230.2711	30.843929	3704.0319	0.005909	1.816
	235923.6850	-0.968673	15.0924	-0.000950	-0.028
40°23'	320080.9069	30.844019	3704.3864	0.005888	1.815
	235865.5646	-0.969007	15.0354	-0.000949	-0.028
40°24'	321931.5480	30.844108	3704.7397	0.005867	1.814
	235807.4242	-0.969341	14.9785	-0.000949	-0.028
40°25'	323782.1945	30.844197	3705.0918	0.005846	1.813
	235749.2637	-0.969675	14.9215	-0.000949	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°26'	325632.8463	30.844286	3705.4425	0.005825	1.812
	235691.0832	-0.970009	14.8646	-0.000948	-0.028
40°27'	327483.5035	30.844375	3705.7921	0.005805	1.811
	235632.8827	-0.970343	14.8077	-0.000948	-0.028
40°28'	329334.1660	30.844465	3706.1403	0.005784	1.810
	235574.6621	-0.970677	14.7508	-0.000948	-0.028
40°29'	331184.8339	30.844554	3706.4874	0.005763	1.809
	235516.4215	-0.971010	14.6940	-0.000947	-0.028
40°30'	333035.5071	30.844643	3706.8331	0.005742	1.808
	235458.1609	-0.971344	14.6371	-0.000947	-0.028
40°31'	334886.1857	30.844732	3707.1776	0.005721	1.807
	235399.8803	-0.971677	14.5803	-0.000947	-0.028
40°32'	336736.8697	30.844822	3707.5209	0.005700	1.805
	235341.5796	-0.972011	14.5235	-0.000946	-0.028
40°33'	338587.5590	30.844911	3707.8629	0.005679	1.804
	235283.2590	-0.972344	14.4667	-0.000946	-0.028
40°34'	340438.2536	30.845000	3708.2036	0.005658	1.803
	235224.9183	-0.972677	14.4100	-0.000946	-0.028
40°35'	342288.9536	30.845089	3708.5431	0.005637	1.802
	235166.5577	-0.973011	14.3532	-0.000945	-0.028
40°36'	344139.6590	30.845179	3708.8814	0.005616	1.801
	235108.1771	-0.973344	14.2965	-0.000945	-0.028
40°37'	345990.3697	30.845268	3709.2184	0.005596	1.800
	235049.7765	-0.973677	14.2398	-0.000945	-0.028
40°38'	347841.0858	30.845357	3709.5541	0.005575	1.799
	234991.3559	-0.974010	14.1831	-0.000944	-0.028
40°39'	349691.8072	30.845447	3709.8886	0.005554	1.798
	234932.9153	-0.974342	14.1265	-0.000944	-0.028
40°40'	351542.5340	30.845536	3710.2218	0.005533	1.797
	234874.4547	-0.974675	14.0698	-0.000944	-0.028
40°41'	353393.2662	30.845625	3710.5538	0.005512	1.795
	234815.9742	-0.975008	14.0132	-0.000943	-0.028
40°42'	355244.0037	30.845715	3710.8845	0.005491	1.794
	234757.4738	-0.975341	13.9566	-0.000943	-0.028
40°43'	357094.7466	30.845804	3711.2139	0.005470	1.793
	234698.9533	-0.975673	13.9000	-0.000943	-0.028
40°44'	358945.4949	30.845893	3711.5421	0.005449	1.792
	234640.4129	-0.976006	13.8435	-0.000942	-0.028
40°45'	360796.2485	30.845983	3711.8691	0.005428	1.791
	234581.8526	-0.976338	13.7870	-0.000942	-0.028
40°46'	362647.0074	30.846072	3712.1948	0.005407	1.790
	234523.2723	-0.976670	13.7305	-0.000942	-0.028
40°47'	364497.7717	30.846162	3712.5192	0.005386	1.789
	234464.6721	-0.977002	13.6740	-0.000941	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°48'	366348.5414	30.846251	3712.8424	0.005365	1.788
	234406.0520	-0.977335	13.6175	-0.000941	-0.028
40°49'	368199.3165	30.846340	3713.1643	0.005345	1.787
	234347.4119	-0.977667	13.5610	-0.000940	-0.028
40°50'	370050.0969	30.846430	3713.4850	0.005324	1.785
	234288.7519	-0.977999	13.5046	-0.000940	-0.028
40°51'	371900.8827	30.846519	3713.8044	0.005303	1.784
	234230.0720	-0.978330	13.4482	-0.000940	-0.028
40°52'	373751.6738	30.846609	3714.1226	0.005282	1.783
	234171.3722	-0.978662	13.3918	-0.000939	-0.028
40°53'	375602.4704	30.846698	3714.4395	0.005261	1.782
	234112.6524	-0.978994	13.3355	-0.000939	-0.028
40°54'	377453.2722	30.846787	3714.7551	0.005240	1.781
	234053.9128	-0.979326	13.2791	-0.000939	-0.028
40°55'	379304.0795	30.846877	3715.0695	0.005219	1.780
	233995.1533	-0.979657	13.2228	-0.000938	-0.028
40°56'	381154.8921	30.846966	3715.3826	0.005198	1.779
	233936.3738	-0.979989	13.1665	-0.000938	-0.028
40°57'	383005.7101	30.847056	3715.6945	0.005177	1.778
	233877.5745	-0.980320	13.1102	-0.000938	-0.028
40°58'	384856.5334	30.847145	3716.0051	0.005156	1.776
	233818.7553	-0.980651	13.0539	-0.000937	-0.028
40°59'	386707.3621	30.847235	3716.3145	0.005135	1.775
	233759.9162	-0.980983	12.9977	-0.000937	-0.028
41° 0'	388558.1962	30.847324	3716.6226	0.005114	1.774
	233701.0572	-0.981314	12.9415	-0.000937	-0.028
41° 1'	390409.0357	30.847414	3716.9295	0.005093	1.773
	233642.1784	-0.981645	12.8853	-0.000936	-0.028
41° 2'	392259.8805	30.847503	3717.2351	0.005072	1.772
	233583.2797	-0.981976	12.8291	-0.000936	-0.028
41° 3'	394110.7307	30.847593	3717.5394	0.005051	1.771
	233524.3612	-0.982307	12.7730	-0.000936	-0.028
41° 4'	395961.5862	30.847682	3717.8425	0.005030	1.770
	233465.4227	-0.982638	12.7168	-0.000935	-0.028
41° 5'	397812.4472	30.847772	3718.1443	0.005009	1.769
	233406.4645	-0.982968	12.6607	-0.000935	-0.029
41° 6'	399663.3135	30.847861	3718.4448	0.004988	1.767
	233347.4864	-0.983299	12.6046	-0.000934	-0.029
41° 7'	401514.1852	30.847951	3718.7442	0.004967	1.766
	233288.4884	-0.983630	12.5486	-0.000934	-0.029
41° 8'	403365.0622	30.848040	3719.0422	0.004946	1.765
	233229.4706	-0.983960	12.4925	-0.000934	-0.029
41° 9'	405215.9446	30.848130	3719.3390	0.004926	1.764
	233170.4330	-0.984291	12.4365	-0.000933	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°10'	407066.8324	30.848219	3719.6345	0.004905	1.763
	233111.3756	-0.984621	12.3805	-0.000933	-0.029
41°11'	408917.7256	30.848309	3719.9288	0.004884	1.762
	233052.2983	-0.984951	12.3245	-0.000933	-0.029
41°12'	410768.6241	30.848399	3720.2218	0.004863	1.761
	232993.2012	-0.985282	12.2686	-0.000932	-0.029
41°13'	412619.5281	30.848488	3720.5136	0.004842	1.760
	232934.0843	-0.985612	12.2126	-0.000932	-0.029
41°14'	414470.4373	30.848578	3720.8041	0.004821	1.758
	232874.9476	-0.985942	12.1567	-0.000932	-0.029
41°15'	416321.3520	30.848667	3721.0933	0.004800	1.757
	232815.7911	-0.986272	12.1008	-0.000931	-0.029
41°16'	418172.2721	30.848757	3721.3813	0.004779	1.756
	232756.6148	-0.986602	12.0450	-0.000931	-0.029
41°17'	420023.1975	30.848847	3721.6680	0.004758	1.755
	232697.4188	-0.986931	11.9891	-0.000930	-0.029
41°18'	421874.1283	30.848936	3721.9535	0.004737	1.754
	232638.2029	-0.987261	11.9333	-0.000930	-0.029
41°19'	423725.0644	30.849026	3722.2377	0.004716	1.753
	232578.9672	-0.987591	11.8775	-0.000930	-0.029
41°20'	425576.0060	30.849115	3722.5206	0.004695	1.752
	232519.7118	-0.987920	11.8217	-0.000929	-0.029
41°21'	427426.9529	30.849205	3722.8023	0.004674	1.750
	232460.4366	-0.988250	11.7659	-0.000929	-0.029
41°22'	429277.9052	30.849295	3723.0827	0.004653	1.749
	232401.1416	-0.988579	11.7102	-0.000929	-0.029
41°23'	431128.8629	30.849384	3723.3619	0.004632	1.748
	232341.8269	-0.988908	11.6545	-0.000928	-0.029
41°24'	432979.8260	30.849474	3723.6398	0.004611	1.747
	232282.4924	-0.989238	11.5988	-0.000928	-0.029
41°25'	434830.7944	30.849564	3723.9164	0.004590	1.746
	232223.1381	-0.989567	11.5431	-0.000928	-0.029
41°26'	436681.7683	30.849653	3724.1918	0.004569	1.745
	232163.7641	-0.989896	11.4875	-0.000927	-0.029
41°27'	438532.7475	30.849743	3724.4660	0.004548	1.744
	232104.3704	-0.990225	11.4318	-0.000927	-0.029
41°28'	440383.7321	30.849833	3724.7388	0.004527	1.742
	232044.9569	-0.990554	11.3762	-0.000926	-0.029
41°29'	442234.7220	30.849923	3725.0104	0.004506	1.741
	231985.5237	-0.990882	11.3206	-0.000926	-0.029
41°30'	444085.7174	30.850012	3725.2808	0.004485	1.740
	231926.0707	-0.991211	11.2651	-0.000926	-0.029
41°31'	445936.7181	30.850102	3725.5499	0.004464	1.739
	231866.5981	-0.991540	11.2095	-0.000925	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°32'	447787.7242	30.850192	3725.8177	0.004443	1.738
	231807.1057	-0.991868	11.1540	-0.000925	-0.029
41°33'	449638.7357	30.850281	3726.0843	0.004422	1.737
	231747.5936	-0.992197	11.0985	-0.000925	-0.029
41°34'	451489.7526	30.850371	3726.3496	0.004401	1.735
	231688.0618	-0.992525	11.0431	-0.000924	-0.029
41°35'	453340.7749	30.850461	3726.6136	0.004380	1.734
	231628.5102	-0.992854	10.9876	-0.000924	-0.029
41°36'	455191.8025	30.850551	3726.8764	0.004359	1.733
	231568.9390	-0.993182	10.9322	-0.000923	-0.029
41°37'	457042.8356	30.850640	3727.1379	0.004338	1.732
	231509.3481	-0.993510	10.8768	-0.000923	-0.029
41°38'	458893.8740	30.850730	3727.3982	0.004317	1.731
	231449.7375	-0.993838	10.8214	-0.000923	-0.029
41°39'	460744.9178	30.850820	3727.6572	0.004296	1.730
	231390.1073	-0.994166	10.7660	-0.000922	-0.029
41°40'	462595.9670	30.850910	3727.9150	0.004275	1.728
	231330.4573	-0.994494	10.7107	-0.000922	-0.029
41°41'	464447.0216	30.850999	3728.1714	0.004254	1.727
	231270.7877	-0.994822	10.6554	-0.000922	-0.029
41°42'	466298.0815	30.851089	3728.4267	0.004233	1.726
	231211.0984	-0.995149	10.6001	-0.000921	-0.029
41°43'	468149.1469	30.851179	3728.6806	0.004212	1.725
	231151.3894	-0.995477	10.5448	-0.000921	-0.029
41°44'	470000.2176	30.851269	3728.9333	0.004191	1.724
	231091.6608	-0.995805	10.4896	-0.000920	-0.029
41°45'	471851.2937	30.851359	3729.1848	0.004170	1.723
	231031.9125	-0.996132	10.4344	-0.000920	-0.029
41°46'	473702.3753	30.851448	3729.4349	0.004149	1.722
	230972.1446	-0.996460	10.3792	-0.000920	-0.029
41°47'	475553.4622	30.851538	3729.6839	0.004128	1.720
	230912.3570	-0.996787	10.3240	-0.000919	-0.029
41°48'	477404.5544	30.851628	3729.9315	0.004107	1.719
	230852.5498	-0.997114	10.2688	-0.000919	-0.029
41°49'	479255.6521	30.851718	3730.1779	0.004086	1.718
	230792.7229	-0.997441	10.2137	-0.000918	-0.029
41°50'	481106.7552	30.851808	3730.4230	0.004064	1.717
	230732.8764	-0.997768	10.1586	-0.000918	-0.029
41°51'	482957.8637	30.851898	3730.6669	0.004043	1.716
	230673.0103	-0.998095	10.1035	-0.000918	-0.029
41°52'	484808.9775	30.851987	3730.9095	0.004022	1.715
	230613.1246	-0.998422	10.0485	-0.000917	-0.029
41°53'	486660.0968	30.852077	3731.1509	0.004001	1.713
	230553.2193	-0.998749	9.9934	-0.000917	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°54'	488511.2214	30.852167	3731.3909	0.003980	1.712
	230493.2943	-0.999076	9.9384	-0.000917	-0.029
41°55'	490362.3514	30.852257	3731.6298	0.003959	1.711
	230433.3497	-0.999403	9.8834	-0.000916	-0.029
41°56'	492213.4868	30.852347	3731.8673	0.003938	1.710
	230373.3856	-0.999729	9.8285	-0.000916	-0.029
41°57'	494064.6276	30.852437	3732.1036	0.003917	1.709
	230313.4018	-1.000056	9.7735	-0.000915	-0.029
41°58'	495915.7738	30.852527	3732.3386	0.003896	1.707
	230253.3985	-1.000382	9.7186	-0.000915	-0.029
41°59'	497766.9254	30.852616	3732.5724	0.003875	1.706
	230193.3756	-1.000709	9.6637	-0.000915	-0.029
42° 0'	499618.0824	30.852706	3732.8049	0.003854	1.705
	230133.3330	-1.001035	9.6088	-0.000914	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°30'	0.0000	30.828748	1948.8412	0.019445	26.874
	40713.6208	0.150882	363.0534	0.005266	6.091
37°31'	1849.7249	30.828836	1950.0079	0.019453	26.899
	40722.6737	0.151006	363.3694	0.005273	6.100
37°32'	3699.4550	30.828923	1951.1751	0.019462	26.923
	40731.7341	0.151131	363.6857	0.005280	6.109
37°33'	5549.1904	30.829010	1952.3428	0.019471	26.948
	40740.8020	0.151256	364.0025	0.005287	6.119
37°34'	7398.9310	30.829097	1953.5110	0.019479	26.972
	40749.8773	0.151381	364.3197	0.005294	6.129
37°35'	9248.6768	30.829185	1954.6798	0.019488	26.997
	40758.9602	0.151506	364.6373	0.005301	6.138
37°36'	11098.4279	30.829272	1955.8491	0.019496	27.021
	40768.0506	0.151632	364.9554	0.005308	6.148
37°37'	12948.1842	30.829359	1957.0189	0.019505	27.046
	40777.1485	0.151757	365.2738	0.005315	6.157
37°38'	14797.9458	30.829446	1958.1892	0.019514	27.071
	40786.2539	0.151883	365.5927	0.005322	6.167
37°39'	16647.7126	30.829534	1959.3600	0.019522	27.095
	40795.3669	0.152008	365.9120	0.005329	6.177
37°40'	18497.4846	30.829621	1960.5313	0.019531	27.120
	40804.4874	0.152134	366.2318	0.005336	6.186
37°41'	20347.2619	30.829708	1961.7032	0.019540	27.145
	40813.6154	0.152260	366.5519	0.005343	6.196
37°42'	22197.0444	30.829796	1962.8756	0.019548	27.169
	40822.7510	0.152386	366.8725	0.005350	6.205
37°43'	24046.8321	30.829883	1964.0485	0.019557	27.194
	40831.8942	0.152512	367.1935	0.005357	6.215
37°44'	25896.6251	30.829971	1965.2219	0.019566	27.219
	40841.0449	0.152638	367.5149	0.005364	6.225
37°45'	27746.4233	30.830058	1966.3959	0.019574	27.244
	40850.2032	0.152764	367.8368	0.005371	6.235
37°46'	29596.2268	30.830145	1967.5703	0.019583	27.269
	40859.3690	0.152891	368.1591	0.005379	6.244
37°47'	31446.0356	30.830233	1968.7453	0.019592	27.293
	40868.5425	0.153017	368.4818	0.005386	6.254
37°48'	33295.8495	30.830320	1969.9208	0.019601	27.318
	40877.7235	0.153144	368.8049	0.005393	6.264
37°49'	35145.6687	30.830408	1971.0969	0.019609	27.343
	40886.9122	0.153271	369.1285	0.005400	6.274
37°50'	36995.4932	30.830495	1972.2734	0.019618	27.368
	40896.1084	0.153398	369.4525	0.005407	6.284
37°51'	38845.3229	30.830583	1973.4505	0.019627	27.393
	40905.3123	0.153525	369.7769	0.005414	6.293

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.001

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°52'	40695.1579	30.830670	1974.6281	0.019636	27.418
	40914.5238	0.153652	370.1018	0.005422	6.303
37°53'	42544.9981	30.830758	1975.8063	0.019644	27.443
	40923.7429	0.153779	370.4271	0.005429	6.313
37°54'	44394.8436	30.830845	1976.9849	0.019653	27.468
	40932.9696	0.153906	370.7528	0.005436	6.323
37°55'	46244.6943	30.830933	1978.1641	0.019662	27.493
	40942.2040	0.154034	371.0790	0.005443	6.333
37°56'	48094.5502	30.831020	1979.3439	0.019671	27.518
	40951.4460	0.154161	371.4056	0.005451	6.343
37°57'	49944.4115	30.831108	1980.5241	0.019680	27.544
	40960.6956	0.154289	371.7326	0.005458	6.353
37°58'	51794.2779	30.831195	1981.7049	0.019688	27.569
	40969.9530	0.154416	372.0601	0.005465	6.363
37°59'	53644.1497	30.831283	1982.8862	0.019697	27.594
	40979.2179	0.154544	372.3880	0.005472	6.373
38° 0'	55494.0267	30.831371	1984.0680	0.019706	27.619
	40988.4906	0.154672	372.7164	0.005480	6.383
38° 1'	57343.9089	30.831458	1985.2504	0.019715	27.644
	40997.7709	0.154800	373.0451	0.005487	6.393
38° 2'	59193.7964	30.831546	1986.4333	0.019724	27.670
	41007.0590	0.154929	373.3744	0.005494	6.403
38° 3'	61043.6891	30.831634	1987.6167	0.019733	27.695
	41016.3547	0.155057	373.7040	0.005502	6.413
38° 4'	62893.5872	30.831721	1988.8007	0.019742	27.720
	41025.6581	0.155185	374.0341	0.005509	6.423
38° 5'	64743.4904	30.831809	1989.9852	0.019751	27.746
	41034.9692	0.155314	374.3647	0.005516	6.433
38° 6'	66593.3990	30.831897	1991.1702	0.019759	27.771
	41044.2881	0.155443	374.6956	0.005524	6.444
38° 7'	68443.3128	30.831984	1992.3558	0.019768	27.796
	41053.6146	0.155571	375.0271	0.005531	6.454
38° 8'	70293.2318	30.832072	1993.5419	0.019777	27.822
	41062.9489	0.155700	375.3589	0.005538	6.464
38° 9'	72143.1561	30.832160	1994.7285	0.019786	27.847
	41072.2909	0.155829	375.6912	0.005546	6.474
38°10'	73993.0857	30.832247	1995.9157	0.019795	27.873
	41081.6407	0.155958	376.0240	0.005553	6.484
38°11'	75843.0206	30.832335	1997.1034	0.019804	27.898
	41090.9982	0.156088	376.3572	0.005561	6.495
38°12'	77692.9607	30.832423	1998.2917	0.019813	27.924
	41100.3635	0.156217	376.6908	0.005568	6.505
38°13'	79542.9061	30.832511	1999.4804	0.019822	27.949
	41109.7365	0.156347	377.0249	0.005576	6.515

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°14'	81392.8567	30.832599	2000.6698	0.019831	27.975
	41119.1173	0.156476	377.3594	0.005583	6.525
38°15'	83242.8126	30.832686	2001.8596	0.019840	28.001
	41128.5059	0.156606	377.6944	0.005591	6.536
38°16'	85092.7738	30.832774	2003.0500	0.019849	28.026
	41137.9022	0.156736	378.0299	0.005598	6.546
38°17'	86942.7402	30.832862	2004.2409	0.019858	28.052
	41147.3064	0.156866	378.3657	0.005606	6.556
38°18'	88792.7120	30.832950	2005.4324	0.019867	28.078
	41156.7183	0.156996	378.7021	0.005613	6.567
38°19'	90642.6889	30.833038	2006.6244	0.019876	28.103
	41166.1380	0.157126	379.0389	0.005621	6.577
38°20'	92492.6712	30.833125	2007.8170	0.019885	28.129
	41175.5656	0.157256	379.3761	0.005628	6.588
38°21'	94342.6587	30.833213	2009.0101	0.019894	28.155
	41185.0009	0.157387	379.7138	0.005636	6.598
38°22'	96192.6515	30.833301	2010.2037	0.019903	28.181
	41194.4441	0.157517	380.0519	0.005643	6.609
38°23'	98042.6496	30.833389	2011.3979	0.019912	28.207
	41203.8952	0.157648	380.3905	0.005651	6.619
38°24'	99892.6530	30.833477	2012.5927	0.019921	28.233
	41213.3540	0.157778	380.7295	0.005658	6.630
38°25'	101742.6616	30.833565	2013.7879	0.019930	28.258
	41222.8207	0.157909	381.0690	0.005666	6.640
38°26'	103592.6755	30.833653	2014.9838	0.019939	28.284
	41232.2953	0.158040	381.4090	0.005674	6.651
38°27'	105442.6946	30.833741	2016.1801	0.019949	28.310
	41241.7777	0.158171	381.7494	0.005681	6.661
38°28'	107292.7191	30.833829	2017.3770	0.019958	28.336
	41251.2680	0.158303	382.0903	0.005689	6.672
38°29'	109142.7488	30.833917	2018.5745	0.019967	28.362
	41260.7661	0.158434	382.4316	0.005696	6.682
38°30'	110992.7838	30.834005	2019.7725	0.019976	28.388
	41270.2722	0.158565	382.7734	0.005704	6.693
38°31'	112842.8241	30.834093	2020.9711	0.019985	28.415
	41279.7861	0.158697	383.1156	0.005712	6.704
38°32'	114692.8697	30.834181	2022.1702	0.019994	28.441
	41289.3079	0.158829	383.4583	0.005719	6.714
38°33'	116542.9205	30.834269	2023.3698	0.020003	28.467
	41298.8377	0.158961	383.8015	0.005727	6.725
38°34'	118392.9767	30.834357	2024.5700	0.020013	28.493
	41308.3753	0.159092	384.1451	0.005735	6.736
38°35'	120243.0381	30.834445	2025.7708	0.020022	28.519
	41317.9208	0.159225	384.4892	0.005742	6.746

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.001

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°36'	122093.1048	30.834533	2026.9721	0.020031	28.545
	41327.4743	0.159357	384.8337	0.005750	6.757
38°37'	123943.1768	30.834621	2028.1739	0.020040	28.572
	41337.0357	0.159489	385.1788	0.005758	6.768
38°38'	125793.2540	30.834709	2029.3763	0.020049	28.598
	41346.6050	0.159621	385.5242	0.005766	6.779
38°39'	127643.3366	30.834797	2030.5793	0.020059	28.624
	41356.1823	0.159754	385.8702	0.005773	6.790
38°40'	129493.4244	30.834885	2031.7828	0.020068	28.651
	41365.7676	0.159887	386.2166	0.005781	6.800
38°41'	131343.5175	30.834973	2032.9869	0.020077	28.677
	41375.3608	0.160019	386.5635	0.005789	6.811
38°42'	133193.6159	30.835062	2034.1915	0.020086	28.703
	41384.9619	0.160152	386.9108	0.005797	6.822
38°43'	135043.7196	30.835150	2035.3967	0.020096	28.730
	41394.5711	0.160285	387.2586	0.005805	6.833
38°44'	136893.8286	30.835238	2036.6024	0.020105	28.756
	41404.1882	0.160418	387.6069	0.005812	6.844
38°45'	138743.9429	30.835326	2037.8087	0.020114	28.783
	41413.8133	0.160552	387.9556	0.005820	6.855
38°46'	140594.0624	30.835414	2039.0155	0.020123	28.809
	41423.4464	0.160685	388.3049	0.005828	6.866
38°47'	142444.1873	30.835502	2040.2229	0.020133	28.836
	41433.0875	0.160819	388.6545	0.005836	6.877
38°48'	144294.3174	30.835591	2041.4309	0.020142	28.862
	41442.7366	0.160952	389.0047	0.005844	6.888
38°49'	146144.4528	30.835679	2042.6394	0.020151	28.889
	41452.3937	0.161086	389.3553	0.005852	6.899
38°50'	147994.5936	30.835767	2043.8485	0.020161	28.915
	41462.0589	0.161220	389.7065	0.005860	6.910
38°51'	149844.7396	30.835855	2045.0581	0.020170	28.942
	41471.7321	0.161354	390.0580	0.005868	6.921
38°52'	151694.8909	30.835943	2046.2683	0.020179	28.969
	41481.4133	0.161488	390.4101	0.005876	6.932
38°53'	153545.0475	30.836032	2047.4791	0.020189	28.996
	41491.1026	0.161622	390.7626	0.005883	6.943
38°54'	155395.2094	30.836120	2048.6904	0.020198	29.022
	41500.7999	0.161756	391.1156	0.005891	6.954
38°55'	157245.3766	30.836208	2049.9023	0.020207	29.049
	41510.5053	0.161891	391.4691	0.005899	6.966
38°56'	159095.5491	30.836297	2051.1147	0.020217	29.076
	41520.2187	0.162025	391.8231	0.005907	6.977
38°57'	160945.7269	30.836385	2052.3277	0.020226	29.103
	41529.9402	0.162160	392.1775	0.005915	6.988

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°58'	162795.9100	30.836473	2053.5413	0.020236	29.130
	41539.6698	0.162295	392.5324	0.005923	6.999
38°59'	164646.0984	30.836562	2054.7554	0.020245	29.156
	41549.4075	0.162430	392.8878	0.005931	7.010
39° 0'	166496.2921	30.836650	2055.9701	0.020254	29.183
	41559.1533	0.162565	393.2437	0.005939	7.022
39° 1'	168346.4911	30.836738	2057.1854	0.020264	29.210
	41568.9072	0.162700	393.6001	0.005947	7.033
39° 2'	170196.6954	30.836827	2058.4012	0.020273	29.237
	41578.6693	0.162836	393.9569	0.005955	7.044
39° 3'	172046.9050	30.836915	2059.6176	0.020283	29.264
	41588.4394	0.162971	394.3143	0.005964	7.056
39° 4'	173897.1199	30.837003	2060.8346	0.020292	29.291
	41598.2177	0.163107	394.6721	0.005972	7.067
39° 5'	175747.3401	30.837092	2062.0521	0.020302	29.318
	41608.0041	0.163242	395.0304	0.005980	7.078
39° 6'	177597.5656	30.837180	2063.2702	0.020311	29.346
	41617.7986	0.163378	395.3892	0.005988	7.090
39° 7'	179447.7964	30.837269	2064.4889	0.020321	29.373
	41627.6013	0.163514	395.7484	0.005996	7.101
39° 8'	181298.0325	30.837357	2065.7081	0.020330	29.400
	41637.4121	0.163650	396.1082	0.006004	7.113
39° 9'	183148.2739	30.837445	2066.9280	0.020340	29.427
	41647.2311	0.163786	396.4684	0.006012	7.124
39°10'	184998.5207	30.837534	2068.1483	0.020349	29.454
	41657.0583	0.163923	396.8292	0.006020	7.136
39°11'	186848.7727	30.837622	2069.3693	0.020359	29.482
	41666.8937	0.164059	397.1904	0.006029	7.147
39°12'	188699.0300	30.837711	2070.5908	0.020368	29.509
	41676.7372	0.164196	397.5521	0.006037	7.159
39°13'	190549.2927	30.837799	2071.8129	0.020378	29.536
	41686.5890	0.164332	397.9143	0.006045	7.170
39°14'	192399.5606	30.837888	2073.0356	0.020388	29.564
	41696.4489	0.164469	398.2770	0.006053	7.182
39°15'	194249.8339	30.837976	2074.2589	0.020397	29.591
	41706.3171	0.164606	398.6402	0.006061	7.193
39°16'	196100.1125	30.838065	2075.4827	0.020407	29.618
	41716.1934	0.164743	399.0039	0.006070	7.205
39°17'	197950.3964	30.838153	2076.7071	0.020416	29.646
	41726.0780	0.164880	399.3681	0.006078	7.217
39°18'	199800.6856	30.838242	2077.9321	0.020426	29.673
	41735.9708	0.165018	399.7327	0.006086	7.228
39°19'	201650.9801	30.838330	2079.1576	0.020436	29.701
	41745.8719	0.165155	400.0979	0.006094	7.240

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

INDIANA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°20'	203501.2799	30.838419	2080.3838	0.020445	29.728
	41755.7812	0.165293	400.4636	0.006103	7.252
39°21'	205351.5851	30.838508	2081.6105	0.020455	29.756
	41765.6988	0.165430	400.8297	0.006111	7.264
39°22'	207201.8955	30.838596	2082.8378	0.020464	29.783
	41775.6246	0.165568	401.1964	0.006119	7.275
39°23'	209052.2113	30.838685	2084.0656	0.020474	29.811
	41785.5587	0.165706	401.5636	0.006128	7.287
39°24'	210902.5324	30.838773	2085.2941	0.020484	29.839
	41795.5011	0.165844	401.9312	0.006136	7.299
39°25'	212752.8588	30.838862	2086.5231	0.020494	29.866
	41805.4517	0.165983	402.2994	0.006144	7.311
39°26'	214603.1905	30.838951	2087.7527	0.020503	29.894
	41815.4107	0.166121	402.6681	0.006153	7.323
39°27'	216453.5275	30.839039	2088.9829	0.020513	29.922
	41825.3780	0.166259	403.0372	0.006161	7.334
39°28'	218303.8699	30.839128	2090.2137	0.020523	29.950
	41835.3535	0.166398	403.4069	0.006170	7.346
39°29'	220154.2175	30.839217	2091.4451	0.020532	29.977
	41845.3374	0.166537	403.7771	0.006178	7.358
39°30'	222004.5705	30.839305	2092.6770	0.020542	30.005
	41855.3296	0.166676	404.1477	0.006186	7.370
39°31'	223854.9289	30.839394	2093.9095	0.020552	30.033
	41865.3301	0.166815	404.5189	0.006195	7.382
39°32'	225705.2925	30.839483	2095.1426	0.020562	30.061
	41875.3390	0.166954	404.8906	0.006203	7.394
39°33'	227555.6614	30.839571	2096.3763	0.020571	30.089
	41885.3562	0.167093	405.2628	0.006212	7.406
39°34'	229406.0357	30.839660	2097.6106	0.020581	30.117
	41895.3818	0.167232	405.6355	0.006220	7.418
39°35'	231256.4153	30.839749	2098.8455	0.020591	30.145
	41905.4157	0.167372	406.0087	0.006229	7.430
39°36'	233106.8002	30.839837	2100.0810	0.020601	30.173
	41915.4580	0.167511	406.3825	0.006237	7.443
39°37'	234957.1905	30.839926	2101.3170	0.020611	30.201
	41925.5087	0.167651	406.7567	0.006246	7.455
39°38'	236807.5860	30.840015	2102.5536	0.020620	30.229
	41935.5678	0.167791	407.1315	0.006254	7.467
39°39'	238657.9869	30.840104	2103.7909	0.020630	30.257
	41945.6352	0.167931	407.5067	0.006263	7.479
39°40'	240508.3932	30.840192	2105.0287	0.020640	30.285
	41955.7111	0.168071	407.8825	0.006271	7.491
39°41'	242358.8047	30.840281	2106.2671	0.020650	30.314
	41965.7954	0.168211	408.2588	0.006280	7.503

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°42'	244209.2216	30.840370	2107.5061	0.020660	30.342
	41975.8880	0.168352	408.6356	0.006289	7.516
39°43'	246059.6438	30.840459	2108.7457	0.020670	30.370
	41985.9892	0.168492	409.0129	0.006297	7.528
39°44'	247910.0713	30.840548	2109.9859	0.020680	30.398
	41996.0987	0.168633	409.3907	0.006306	7.540
39°45'	249760.5041	30.840636	2111.2266	0.020689	30.427
	42006.2167	0.168774	409.7691	0.006315	7.553
39°46'	251610.9423	30.840725	2112.4680	0.020699	30.455
	42016.3431	0.168915	410.1480	0.006323	7.565
39°47'	253461.3858	30.840814	2113.7100	0.020709	30.483
	42026.4780	0.169056	410.5273	0.006332	7.577
39°48'	255311.8347	30.840903	2114.9525	0.020719	30.512
	42036.6213	0.169197	410.9073	0.006341	7.590
39°49'	257162.2889	30.840992	2116.1957	0.020729	30.540
	42046.7732	0.169338	411.2877	0.006349	7.602
39°50'	259012.7484	30.841081	2117.4394	0.020739	30.569
	42056.9335	0.169480	411.6686	0.006358	7.614
39°51'	260863.2132	30.841170	2118.6838	0.020749	30.597
	42067.1022	0.169621	412.0501	0.006367	7.627
39°52'	262713.6834	30.841258	2119.9287	0.020759	30.626
	42077.2795	0.169763	412.4321	0.006375	7.639
39°53'	264564.1589	30.841347	2121.1743	0.020769	30.654
	42087.4653	0.169905	412.8146	0.006384	7.652
39°54'	266414.6397	30.841436	2122.4204	0.020779	30.683
	42097.6596	0.170047	413.1977	0.006393	7.665
39°55'	268265.1259	30.841525	2123.6672	0.020789	30.712
	42107.8624	0.170189	413.5813	0.006402	7.677
39°56'	270115.6174	30.841614	2124.9145	0.020799	30.740
	42118.0738	0.170331	413.9654	0.006410	7.690
39°57'	271966.1143	30.841703	2126.1625	0.020809	30.769
	42128.2936	0.170474	414.3500	0.006419	7.702
39°58'	273816.6164	30.841792	2127.4110	0.020819	30.798
	42138.5221	0.170616	414.7351	0.006428	7.715
39°59'	275667.1240	30.841881	2128.6602	0.020829	30.827
	42148.7590	0.170759	415.1208	0.006437	7.728
40° 0'	277517.6368	30.841970	2129.9099	0.020839	30.855
	42159.0045	0.170902	415.5071	0.006446	7.740
40° 1'	279368.1550	30.842059	2131.1603	0.020849	30.884
	42169.2586	0.171044	415.8938	0.006455	7.753
40° 2'	281218.6785	30.842148	2132.4112	0.020859	30.913
	42179.5213	0.171188	416.2811	0.006464	7.766
40° 3'	283069.2074	30.842237	2133.6628	0.020870	30.942
	42189.7926	0.171331	416.6689	0.006472	7.779

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40° 4'	284919.7416	30.842326	2134.9150	0.020880	30.971
	42200.0724	0.171474	417.0572	0.006481	7.791
40° 5'	286770.2812	30.842415	2136.1677	0.020890	31.000
	42210.3608	0.171617	417.4461	0.006490	7.804
40° 6'	288620.8261	30.842504	2137.4211	0.020900	31.029
	42220.6579	0.171761	417.8355	0.006499	7.817
40° 7'	290471.3763	30.842593	2138.6751	0.020910	31.058
	42230.9636	0.171905	418.2255	0.006508	7.830
40° 8'	292321.9319	30.842682	2139.9297	0.020920	31.087
	42241.2778	0.172049	418.6160	0.006517	7.843
40° 9'	294172.4928	30.842771	2141.1849	0.020930	31.116
	42251.6008	0.172193	419.0070	0.006526	7.856
40°10'	296023.0590	30.842860	2142.4408	0.020941	31.145
	42261.9323	0.172337	419.3986	0.006535	7.869
40°11'	297873.6306	30.842949	2143.6972	0.020951	31.175
	42272.2725	0.172481	419.7907	0.006544	7.882
40°12'	299724.2076	30.843038	2144.9542	0.020961	31.204
	42282.6214	0.172625	420.1834	0.006553	7.895
40°13'	301574.7899	30.843127	2146.2119	0.020971	31.233
	42292.9789	0.172770	420.5765	0.006562	7.908
40°14'	303425.3775	30.843216	2147.4701	0.020981	31.262
	42303.3451	0.172915	420.9703	0.006571	7.921
40°15'	305275.9705	30.843305	2148.7290	0.020992	31.292
	42313.7200	0.173059	421.3646	0.006580	7.934
40°16'	307126.5688	30.843395	2149.9885	0.021002	31.321
	42324.1035	0.173204	421.7594	0.006589	7.947
40°17'	308977.1725	30.843484	2151.2486	0.021012	31.350
	42334.4958	0.173349	422.1547	0.006599	7.960
40°18'	310827.7815	30.843573	2152.5093	0.021022	31.380
	42344.8968	0.173495	422.5507	0.006608	7.973
40°19'	312678.3959	30.843662	2153.7707	0.021033	31.409
	42355.3065	0.173640	422.9471	0.006617	7.986
40°20'	314529.0156	30.843751	2155.0326	0.021043	31.439
	42365.7249	0.173785	423.3441	0.006626	8.000
40°21'	316379.6407	30.843840	2156.2952	0.021053	31.468
	42376.1520	0.173931	423.7417	0.006635	8.013
40°22'	318230.2711	30.843929	2157.5584	0.021063	31.498
	42386.5879	0.174077	424.1398	0.006644	8.026
40°23'	320080.9069	30.844019	2158.8222	0.021074	31.527
	42397.0325	0.174223	424.5385	0.006654	8.039
40°24'	321931.5480	30.844108	2160.0866	0.021084	31.557
	42407.4858	0.174369	424.9377	0.006663	8.053
40°25'	323782.1945	30.844197	2161.3517	0.021094	31.587
	42417.9480	0.174515	425.3374	0.006672	8.066

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°26'	325632.8463	30.844286	2162.6173	0.021105	31.616
	42428.4189	0.174661	425.7378	0.006681	8.079
40°27'	327483.5035	30.844375	2163.8836	0.021115	31.646
	42438.8985	0.174808	426.1386	0.006690	8.093
40°28'	329334.1660	30.844465	2165.1505	0.021126	31.676
	42449.3870	0.174954	426.5401	0.006700	8.106
40°29'	331184.8339	30.844554	2166.4181	0.021136	31.705
	42459.8843	0.175101	426.9421	0.006709	8.120
40°30'	333035.5071	30.844643	2167.6862	0.021146	31.735
	42470.3903	0.175248	427.3446	0.006718	8.133
40°31'	334886.1857	30.844732	2168.9550	0.021157	31.765
	42480.9052	0.175395	427.7477	0.006728	8.147
40°32'	336736.8697	30.844822	2170.2244	0.021167	31.795
	42491.4289	0.175542	428.1514	0.006737	8.160
40°33'	338587.5590	30.844911	2171.4944	0.021178	31.825
	42501.9614	0.175689	428.5556	0.006746	8.174
40°34'	340438.2536	30.845000	2172.7651	0.021188	31.855
	42512.5028	0.175837	428.9604	0.006756	8.187
40°35'	342288.9536	30.845089	2174.0364	0.021198	31.885
	42523.0530	0.175984	429.3657	0.006765	8.201
40°36'	344139.6590	30.845179	2175.3083	0.021209	31.915
	42533.6121	0.176132	429.7716	0.006775	8.215
40°37'	345990.3697	30.845268	2176.5808	0.021219	31.945
	42544.1800	0.176280	430.1781	0.006784	8.228
40°38'	347841.0858	30.845357	2177.8540	0.021230	31.975
	42554.7568	0.176428	430.5851	0.006793	8.242
40°39'	349691.8072	30.845447	2179.1278	0.021240	32.005
	42565.3425	0.176576	430.9927	0.006803	8.256
40°40'	351542.5340	30.845536	2180.4022	0.021251	32.035
	42575.9371	0.176724	431.4009	0.006812	8.270
40°41'	353393.2662	30.845625	2181.6773	0.021261	32.066
	42586.5405	0.176873	431.8096	0.006822	8.283
40°42'	355244.0037	30.845715	2182.9529	0.021272	32.096
	42597.1529	0.177021	432.2189	0.006831	8.297
40°43'	357094.7466	30.845804	2184.2293	0.021283	32.126
	42607.7742	0.177170	432.6288	0.006841	8.311
40°44'	358945.4949	30.845893	2185.5062	0.021293	32.156
	42618.4044	0.177319	433.0392	0.006850	8.325
40°45'	360796.2485	30.845983	2186.7838	0.021304	32.187
	42629.0435	0.177468	433.4503	0.006860	8.339
40°46'	362647.0074	30.846072	2188.0620	0.021314	32.217
	42639.6916	0.177617	433.8618	0.006869	8.353
40°47'	364497.7717	30.846162	2189.3409	0.021325	32.248
	42650.3486	0.177766	434.2740	0.006879	8.367

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°48'	366348.5414	30.846251	2190.6204	0.021335	32.278
	42661.0146	0.177916	434.6867	0.006889	8.381
40°49'	368199.3165	30.846340	2191.9005	0.021346	32.309
	42671.6895	0.178065	435.1001	0.006898	8.395
40°50'	370050.0969	30.846430	2193.1812	0.021357	32.339
	42682.3734	0.178215	435.5139	0.006908	8.409
40°51'	371900.8827	30.846519	2194.4626	0.021367	32.370
	42693.0663	0.178365	435.9284	0.006917	8.423
40°52'	373751.6738	30.846609	2195.7447	0.021378	32.400
	42703.7682	0.178515	436.3434	0.006927	8.437
40°53'	375602.4704	30.846698	2197.0274	0.021389	32.431
	42714.4791	0.178665	436.7591	0.006937	8.451
40°54'	377453.2722	30.846787	2198.3107	0.021399	32.462
	42725.1990	0.178815	437.1753	0.006946	8.465
40°55'	379304.0795	30.846877	2199.5946	0.021410	32.492
	42735.9279	0.178966	437.5921	0.006956	8.479
40°56'	381154.8921	30.846966	2200.8792	0.021421	32.523
	42746.6658	0.179116	438.0094	0.006966	8.494
40°57'	383005.7101	30.847056	2202.1645	0.021431	32.554
	42757.4128	0.179267	438.4274	0.006976	8.508
40°58'	384856.5334	30.847145	2203.4504	0.021442	32.585
	42768.1688	0.179418	438.8459	0.006985	8.522
40°59'	386707.3621	30.847235	2204.7369	0.021453	32.615
	42778.9339	0.179569	439.2650	0.006995	8.536
41° 0'	388558.1962	30.847324	2206.0241	0.021464	32.646
	42789.7080	0.179720	439.6847	0.007005	8.551
41° 1'	390409.0357	30.847414	2207.3119	0.021474	32.677
	42800.4912	0.179871	440.1050	0.007015	8.565
41° 2'	392259.8805	30.847503	2208.6003	0.021485	32.708
	42811.2835	0.180023	440.5259	0.007024	8.580
41° 3'	394110.7307	30.847593	2209.8894	0.021496	32.739
	42822.0848	0.180174	440.9474	0.007034	8.594
41° 4'	395961.5862	30.847682	2211.1792	0.021507	32.770
	42832.8953	0.180326	441.3694	0.007044	8.608
41° 5'	397812.4472	30.847772	2212.4696	0.021517	32.801
	42843.7148	0.180478	441.7921	0.007054	8.623
41° 6'	399663.3135	30.847861	2213.7606	0.021528	32.832
	42854.5435	0.180630	442.2153	0.007064	8.637
41° 7'	401514.1852	30.847951	2215.0523	0.021539	32.864
	42865.3813	0.180782	442.6391	0.007074	8.652
41° 8'	403365.0622	30.848040	2216.3447	0.021550	32.895
	42876.2282	0.180934	443.0636	0.007084	8.667
41° 9'	405215.9446	30.848130	2217.6377	0.021561	32.926
	42887.0842	0.181087	443.4886	0.007094	8.681

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

INDIANA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°10'	407066.8324	30.848219	2218.9313	0.021572	32.957
	42897.9494	0.181239	443.9142	0.007104	8.696
41°11'	408917.7256	30.848309	2220.2256	0.021583	32.989
	42908.8238	0.181392	444.3404	0.007114	8.710
41°12'	410768.6241	30.848399	2221.5206	0.021593	33.020
	42919.7073	0.181545	444.7673	0.007124	8.725
41°13'	412619.5281	30.848488	2222.8162	0.021604	33.051
	42930.6000	0.181698	445.1947	0.007134	8.740
41°14'	414470.4373	30.848578	2224.1125	0.021615	33.083
	42941.5019	0.181851	445.6227	0.007144	8.755
41°15'	416321.3520	30.848667	2225.4094	0.021626	33.114
	42952.4129	0.182004	446.0513	0.007154	8.769
41°16'	418172.2721	30.848757	2226.7070	0.021637	33.146
	42963.3332	0.182158	446.4805	0.007164	8.784
41°17'	420023.1975	30.848847	2228.0052	0.021648	33.177
	42974.2627	0.182312	446.9103	0.007174	8.799
41°18'	421874.1283	30.848936	2229.3041	0.021659	33.209
	42985.2014	0.182465	447.3408	0.007184	8.814
41°19'	423725.0644	30.849026	2230.6036	0.021670	33.240
	42996.1493	0.182619	447.7718	0.007194	8.829
41°20'	425576.0060	30.849115	2231.9038	0.021681	33.272
	43007.1065	0.182773	448.2034	0.007204	8.844
41°21'	427426.9529	30.849205	2233.2047	0.021692	33.304
	43018.0729	0.182928	448.6357	0.007214	8.859
41°22'	429277.9052	30.849295	2234.5062	0.021703	33.335
	43029.0485	0.183082	449.0685	0.007224	8.874
41°23'	431128.8629	30.849384	2235.8084	0.021714	33.367
	43040.0335	0.183237	449.5020	0.007235	8.889
41°24'	432979.8260	30.849474	2237.1112	0.021725	33.399
	43051.0276	0.183391	449.9360	0.007245	8.904
41°25'	434830.7944	30.849564	2238.4147	0.021736	33.431
	43062.0311	0.183546	450.3707	0.007255	8.919
41°26'	436681.7683	30.849653	2239.7189	0.021747	33.462
	43073.0439	0.183701	450.8060	0.007265	8.934
41°27'	438532.7475	30.849743	2241.0237	0.021758	33.494
	43084.0660	0.183856	451.2419	0.007275	8.949
41°28'	440383.7321	30.849833	2242.3292	0.021769	33.526
	43095.0973	0.184011	451.6784	0.007286	8.964
41°29'	442234.7220	30.849923	2243.6354	0.021780	33.558
	43106.1380	0.184167	452.1156	0.007296	8.980
41°30'	444085.7174	30.850012	2244.9422	0.021792	33.590
	43117.1880	0.184323	452.5533	0.007306	8.995
41°31'	445936.7181	30.850102	2246.2497	0.021803	33.622
	43128.2474	0.184478	452.9917	0.007317	9.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°32'	447787.7242	30.850192	2247.5579	0.021814	33.654
	43139.3161	0.184634	453.4307	0.007327	9.025
41°33'	449638.7357	30.850281	2248.8667	0.021825	33.686
	43150.3941	0.184790	453.8703	0.007337	9.041
41°34'	451489.7526	30.850371	2250.1762	0.021836	33.719
	43161.4815	0.184946	454.3105	0.007348	9.056
41°35'	453340.7749	30.850461	2251.4863	0.021847	33.751
	43172.5783	0.185103	454.7514	0.007358	9.071
41°36'	455191.8025	30.850551	2252.7972	0.021858	33.783
	43183.6845	0.185259	455.1929	0.007368	9.087
41°37'	457042.8356	30.850640	2254.1087	0.021870	33.815
	43194.8000	0.185416	455.6350	0.007379	9.102
41°38'	458893.8740	30.850730	2255.4209	0.021881	33.848
	43205.9250	0.185573	456.0777	0.007389	9.118
41°39'	460744.9178	30.850820	2256.7337	0.021892	33.880
	43217.0594	0.185730	456.5211	0.007400	9.133
41°40'	462595.9670	30.850910	2258.0472	0.021903	33.912
	43228.2031	0.185887	456.9650	0.007410	9.149
41°41'	464447.0216	30.850999	2259.3614	0.021915	33.945
	43239.3563	0.186044	457.4096	0.007421	9.165
41°42'	466298.0815	30.851089	2260.6763	0.021926	33.977
	43250.5190	0.186201	457.8549	0.007431	9.180
41°43'	468149.1469	30.851179	2261.9919	0.021937	34.010
	43261.6911	0.186359	458.3007	0.007442	9.196
41°44'	470000.2176	30.851269	2263.3081	0.021948	34.042
	43272.8726	0.186517	458.7472	0.007452	9.212
41°45'	471851.2937	30.851359	2264.6250	0.021960	34.075
	43284.0636	0.186675	459.1944	0.007463	9.227
41°46'	473702.3753	30.851448	2265.9426	0.021971	34.108
	43295.2641	0.186833	459.6421	0.007473	9.243
41°47'	475553.4622	30.851538	2267.2608	0.021982	34.140
	43306.4741	0.186991	460.0905	0.007484	9.259
41°48'	477404.5544	30.851628	2268.5798	0.021994	34.173
	43317.6935	0.187149	460.5396	0.007495	9.275
41°49'	479255.6521	30.851718	2269.8994	0.022005	34.206
	43328.9225	0.187308	460.9892	0.007505	9.291
41°50'	481106.7552	30.851808	2271.2197	0.022016	34.239
	43340.1609	0.187466	461.4395	0.007516	9.306
41°51'	482957.8637	30.851898	2272.5406	0.022028	34.271
	43351.4089	0.187625	461.8905	0.007526	9.322
41°52'	484808.9775	30.851987	2273.8623	0.022039	34.304
	43362.6664	0.187784	462.3421	0.007537	9.338
41°53'	486660.0968	30.852077	2275.1847	0.022050	34.337
	43373.9335	0.187943	462.7943	0.007548	9.354

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

INDIANA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°54'	488511.2214	30.852167	2276.5077	0.022062	34.370
	43385.2101	0.188103	463.2472	0.007559	9.370
41°55'	490362.3514	30.852257	2277.8314	0.022073	34.403
	43396.4963	0.188262	463.7007	0.007569	9.386
41°56'	492213.4868	30.852347	2279.1558	0.022085	34.436
	43407.7920	0.188422	464.1549	0.007580	9.402
41°57'	494064.6276	30.852437	2280.4809	0.022096	34.469
	43419.0973	0.188581	464.6097	0.007591	9.419
41°58'	495915.7738	30.852527	2281.8066	0.022108	34.502
	43430.4122	0.188741	465.0651	0.007602	9.435
41°59'	497766.9254	30.852616	2283.1331	0.022119	34.535
	43441.7367	0.188901	465.5212	0.007613	9.451
42° 0'	499618.0824	30.852706	2284.4602	0.022131	34.569
	43453.0707	0.189062	465.9780	0.007623	9.467

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°30'	0.0000	30.828748	6087.6143	0.038459	3.040	
			24784.8820	0.248464	321.014	0.012313
37°31'	1849.7249	30.828836	6089.9218	0.038450	3.040	
			24799.7899	0.248575	321.351	0.012313
37°32'	3699.4550	30.828923	6092.2288	0.038441	3.040	
			24814.7044	0.248686	321.688	0.012313
37°33'	5549.1904	30.829010	6094.5353	0.038433	3.040	
			24829.6255	0.248797	322.025	0.012313
37°34'	7398.9310	30.829097	6096.8413	0.038424	3.039	
			24844.5533	0.248908	322.363	0.012313
37°35'	9248.6768	30.829185	6099.1467	0.038416	3.039	
			24859.4878	0.249019	322.702	0.012313
37°36'	11098.4279	30.829272	6101.4516	0.038407	3.039	
			24874.4289	0.249130	323.040	0.012313
37°37'	12948.1842	30.829359	6103.7561	0.038398	3.039	
			24889.3767	0.249241	323.380	0.012313
37°38'	14797.9458	30.829446	6106.0600	0.038390	3.038	
			24904.3312	0.249353	323.719	0.012313
37°39'	16647.7126	30.829534	6108.3633	0.038381	3.038	
			24919.2924	0.249465	324.059	0.012313
37°40'	18497.4846	30.829621	6110.6662	0.038373	3.038	
			24934.2603	0.249576	324.400	0.012313
37°41'	20347.2619	30.829708	6112.9686	0.038364	3.038	
			24949.2348	0.249688	324.741	0.012313
37°42'	22197.0444	30.829796	6115.2704	0.038355	3.038	
			24964.2161	0.249800	325.082	0.012313
37°43'	24046.8321	30.829883	6117.5717	0.038347	3.037	
			24979.2041	0.249912	325.423	0.012313
37°44'	25896.6251	30.829971	6119.8725	0.038338	3.037	
			24994.1988	0.250024	325.766	0.012313
37°45'	27746.4233	30.830058	6122.1728	0.038329	3.037	
			25009.2003	0.250137	326.108	0.012313
37°46'	29596.2268	30.830145	6124.4726	0.038321	3.037	
			25024.2085	0.250249	326.451	0.012312
37°47'	31446.0356	30.830233	6126.7718	0.038312	3.036	
			25039.2234	0.250361	326.794	0.012312
37°48'	33295.8495	30.830320	6129.0705	0.038303	3.036	
			25054.2451	0.250474	327.138	0.012312
37°49'	35145.6687	30.830408	6131.3687	0.038295	3.036	
			25069.2735	0.250587	327.482	0.012312
37°50'	36995.4932	30.830495	6133.6664	0.038286	3.036	
			25084.3088	0.250700	327.827	0.012312
37°51'	38845.3229	30.830583	6135.9636	0.038278	3.035	
			25099.3507	0.250813	328.172	0.012312

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0008

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°52'	40695.1579	30.830670	6138.2603	0.038269	3.035	
			25114.3995	0.250926	328.517	0.012312
37°53'	42544.9981	30.830758	6140.5564	0.038260	3.035	
			25129.4551	0.251039	328.863	0.012312
37°54'	44394.8436	30.830845	6142.8520	0.038252	3.035	
			25144.5174	0.251153	329.210	0.012312
37°55'	46244.6943	30.830933	6145.1471	0.038243	3.034	
			25159.5866	0.251266	329.556	0.012312
37°56'	48094.5502	30.831020	6147.4417	0.038234	3.034	
			25174.6625	0.251380	329.903	0.012312
37°57'	49944.4115	30.831108	6149.7357	0.038226	3.034	
			25189.7453	0.251493	330.251	0.012312
37°58'	51794.2779	30.831195	6152.0293	0.038217	3.034	
			25204.8349	0.251607	330.599	0.012312
37°59'	53644.1497	30.831283	6154.3223	0.038208	3.033	
			25219.9313	0.251721	330.948	0.012312
38° 0'	55494.0267	30.831371	6156.6148	0.038199	3.033	
			25235.0346	0.251835	331.296	0.012312
38° 1'	57343.9089	30.831458	6158.9067	0.038191	3.033	
			25250.1447	0.251949	331.646	0.012312
38° 2'	59193.7964	30.831546	6161.1982	0.038182	3.032	
			25265.2617	0.252064	331.995	0.012312
38° 3'	61043.6891	30.831634	6163.4891	0.038173	3.032	
			25280.3855	0.252178	332.346	0.012312
38° 4'	62893.5872	30.831721	6165.7795	0.038165	3.032	
			25295.5162	0.252293	332.696	0.012312
38° 5'	64743.4904	30.831809	6168.0694	0.038156	3.032	
			25310.6538	0.252407	333.047	0.012312
38° 6'	66593.3990	30.831897	6170.3588	0.038147	3.031	
			25325.7982	0.252522	333.399	0.012312
38° 7'	68443.3128	30.831984	6172.6476	0.038139	3.031	
			25340.9496	0.252637	333.750	0.012311
38° 8'	70293.2318	30.832072	6174.9359	0.038130	3.031	
			25356.1078	0.252752	334.103	0.012311
38° 9'	72143.1561	30.832160	6177.2237	0.038121	3.031	
			25371.2729	0.252867	334.456	0.012311
38°10'	73993.0857	30.832247	6179.5110	0.038112	3.030	
			25386.4450	0.252983	334.809	0.012311
38°11'	75843.0206	30.832335	6181.7977	0.038104	3.030	
			25401.6239	0.253098	335.162	0.012311
38°12'	77692.9607	30.832423	6184.0840	0.038095	3.030	
			25416.8098	0.253214	335.516	0.012311
38°13'	79542.9061	30.832511	6186.3697	0.038086	3.029	
			25432.0026	0.253329	335.871	0.012311

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°14'	81392.8567	30.832599	6188.6548	0.038078	3.029	
			25447.2024	0.253445	336.226	0.012311
38°15'	83242.8126	30.832686	6190.9395	0.038069	3.029	
			25462.4091	0.253561	336.581	0.012311
38°16'	85092.7738	30.832774	6193.2236	0.038060	3.029	
			25477.6228	0.253677	336.937	0.012311
38°17'	86942.7402	30.832862	6195.5072	0.038051	3.028	
			25492.8434	0.253793	337.293	0.012311
38°18'	88792.7120	30.832950	6197.7903	0.038043	3.028	
			25508.0710	0.253910	337.650	0.012311
38°19'	90642.6889	30.833038	6200.0729	0.038034	3.028	
			25523.3056	0.254026	338.007	0.012311
38°20'	92492.6712	30.833125	6202.3549	0.038025	3.027	
			25538.5471	0.254142	338.365	0.012311
38°21'	94342.6587	30.833213	6204.6364	0.038016	3.027	
			25553.7957	0.254259	338.723	0.012311
38°22'	96192.6515	30.833301	6206.9174	0.038008	3.027	
			25569.0512	0.254376	339.081	0.012311
38°23'	98042.6496	30.833389	6209.1979	0.037999	3.026	
			25584.3138	0.254493	339.440	0.012311
38°24'	99892.6530	30.833477	6211.4778	0.037990	3.026	
			25599.5834	0.254610	339.799	0.012311
38°25'	101742.6616	30.833565	6213.7572	0.037981	3.026	
			25614.8600	0.254727	340.159	0.012311
38°26'	103592.6755	30.833653	6216.0361	0.037973	3.026	
			25630.1436	0.254844	340.519	0.012311
38°27'	105442.6946	30.833741	6218.3145	0.037964	3.025	
			25645.4342	0.254962	340.880	0.012311
38°28'	107292.7191	30.833829	6220.5923	0.037955	3.025	
			25660.7319	0.255079	341.241	0.012310
38°29'	109142.7488	30.833917	6222.8696	0.037946	3.025	
			25676.0367	0.255197	341.603	0.012310
38°30'	110992.7838	30.834005	6225.1464	0.037938	3.024	
			25691.3485	0.255315	341.965	0.012310
38°31'	112842.8241	30.834093	6227.4226	0.037929	3.024	
			25706.6674	0.255432	342.327	0.012310
38°32'	114692.8697	30.834181	6229.6983	0.037920	3.024	
			25721.9933	0.255551	342.690	0.012310
38°33'	116542.9205	30.834269	6231.9735	0.037911	3.023	
			25737.3263	0.255669	343.054	0.012310
38°34'	118392.9767	30.834357	6234.2482	0.037902	3.023	
			25752.6665	0.255787	343.418	0.012310
38°35'	120243.0381	30.834445	6236.5224	0.037894	3.023	
			25768.0137	0.255905	343.782	0.012310

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°36'	122093.1048	30.834533	6238.7960	0.037885	3.022	
			25783.3680	0.256024	344.147	0.012310
38°37'	123943.1768	30.834621	6241.0691	0.037876	3.022	
			25798.7294	0.256143	344.512	0.012310
38°38'	125793.2540	30.834709	6243.3416	0.037867	3.022	
			25814.0980	0.256261	344.878	0.012310
38°39'	127643.3366	30.834797	6245.6136	0.037858	3.021	
			25829.4737	0.256380	345.244	0.012310
38°40'	129493.4244	30.834885	6247.8851	0.037850	3.021	
			25844.8565	0.256499	345.610	0.012310
38°41'	131343.5175	30.834973	6250.1561	0.037841	3.021	
			25860.2464	0.256618	345.977	0.012310
38°42'	133193.6159	30.835062	6252.4266	0.037832	3.020	
			25875.6435	0.256738	346.345	0.012310
38°43'	135043.7196	30.835150	6254.6965	0.037823	3.020	
			25891.0478	0.256857	346.713	0.012310
38°44'	136893.8286	30.835238	6256.9659	0.037814	3.020	
			25906.4592	0.256977	347.081	0.012310
38°45'	138743.9429	30.835326	6259.2347	0.037805	3.019	
			25921.8778	0.257096	347.450	0.012310
38°46'	140594.0624	30.835414	6261.5030	0.037797	3.019	
			25937.3036	0.257216	347.819	0.012310
38°47'	142444.1873	30.835502	6263.7708	0.037788	3.019	
			25952.7365	0.257336	348.189	0.012310
38°48'	144294.3174	30.835591	6266.0381	0.037779	3.018	
			25968.1767	0.257456	348.559	0.012310
38°49'	146144.4528	30.835679	6268.3049	0.037770	3.018	
			25983.6241	0.257576	348.930	0.012310
38°50'	147994.5936	30.835767	6270.5711	0.037761	3.018	
			25999.0786	0.257697	349.301	0.012309
38°51'	149844.7396	30.835855	6272.8367	0.037752	3.017	
			26014.5404	0.257817	349.673	0.012309
38°52'	151694.8909	30.835943	6275.1019	0.037744	3.017	
			26030.0094	0.257937	350.045	0.012309
38°53'	153545.0475	30.836032	6277.3665	0.037735	3.017	
			26045.4857	0.258058	350.418	0.012309
38°54'	155395.2094	30.836120	6279.6306	0.037726	3.016	
			26060.9692	0.258179	350.791	0.012309
38°55'	157245.3766	30.836208	6281.8941	0.037717	3.016	
			26076.4599	0.258300	351.164	0.012309
38°56'	159095.5491	30.836297	6284.1571	0.037708	3.016	
			26091.9579	0.258421	351.538	0.012309
38°57'	160945.7269	30.836385	6286.4196	0.037699	3.015	
			26107.4632	0.258542	351.913	0.012309

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°58'	162795.9100	30.836473	6288.6816	0.037690	3.015	
			26122.9757	0.258664	352.288	0.012309
38°59'	164646.0984	30.836562	6290.9430	0.037682	3.015	
			26138.4955	0.258785	352.663	0.012309
39° 0'	166496.2921	30.836650	6293.2039	0.037673	3.014	
			26154.0226	0.258907	353.039	0.012309
39° 1'	168346.4911	30.836738	6295.4643	0.037664	3.014	
			26169.5570	0.259028	353.415	0.012309
39° 2'	170196.6954	30.836827	6297.7241	0.037655	3.014	
			26185.0987	0.259150	353.792	0.012309
39° 3'	172046.9050	30.836915	6299.9834	0.037646	3.013	
			26200.6477	0.259272	354.169	0.012309
39° 4'	173897.1199	30.837003	6302.2422	0.037637	3.013	
			26216.2041	0.259394	354.547	0.012309
39° 5'	175747.3401	30.837092	6304.5004	0.037628	3.013	
			26231.7677	0.259517	354.926	0.012309
39° 6'	177597.5656	30.837180	6306.7581	0.037619	3.012	
			26247.3387	0.259639	355.304	0.012309
39° 7'	179447.7964	30.837269	6309.0152	0.037610	3.012	
			26262.9171	0.259761	355.683	0.012309
39° 8'	181298.0325	30.837357	6311.2719	0.037602	3.011	
			26278.5028	0.259884	356.063	0.012309
39° 9'	183148.2739	30.837445	6313.5280	0.037593	3.011	
			26294.0958	0.260007	356.443	0.012309
39°10'	184998.5207	30.837534	6315.7835	0.037584	3.011	
			26309.6962	0.260130	356.824	0.012309
39°11'	186848.7727	30.837622	6318.0385	0.037575	3.010	
			26325.3040	0.260253	357.205	0.012308
39°12'	188699.0300	30.837711	6320.2930	0.037566	3.010	
			26340.9192	0.260376	357.587	0.012308
39°13'	190549.2927	30.837799	6322.5470	0.037557	3.010	
			26356.5417	0.260499	357.969	0.012308
39°14'	192399.5606	30.837888	6324.8004	0.037548	3.009	
			26372.1717	0.260623	358.351	0.012308
39°15'	194249.8339	30.837976	6327.0533	0.037539	3.009	
			26387.8090	0.260746	358.734	0.012308
39°16'	196100.1125	30.838065	6329.3056	0.037530	3.008	
			26403.4538	0.260870	359.118	0.012308
39°17'	197950.3964	30.838153	6331.5574	0.037521	3.008	
			26419.1060	0.260994	359.502	0.012308
39°18'	199800.6856	30.838242	6333.8087	0.037512	3.008	
			26434.7656	0.261118	359.887	0.012308
39°19'	201650.9801	30.838330	6336.0595	0.037503	3.007	
			26450.4327	0.261242	360.272	0.012308

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°20'	203501.2799	30.838419	6338.3097	0.037494	3.007	
			26466.1072	0.261366	360.657	0.012308
39°21'	205351.5851	30.838508	6340.5593	0.037486	3.007	
			26481.7892	0.261490	361.043	0.012308
39°22'	207201.8955	30.838596	6342.8085	0.037477	3.006	
			26497.4786	0.261615	361.430	0.012308
39°23'	209052.2113	30.838685	6345.0571	0.037468	3.006	
			26513.1755	0.261740	361.817	0.012308
39°24'	210902.5324	30.838773	6347.3051	0.037459	3.005	
			26528.8799	0.261864	362.204	0.012308
39°25'	212752.8588	30.838862	6349.5527	0.037450	3.005	
			26544.5917	0.261989	362.592	0.012308
39°26'	214603.1905	30.838951	6351.7996	0.037441	3.005	
			26560.3111	0.262114	362.980	0.012308
39°27'	216453.5275	30.839039	6354.0461	0.037432	3.004	
			26576.0379	0.262239	363.369	0.012308
39°28'	218303.8699	30.839128	6356.2920	0.037423	3.004	
			26591.7723	0.262365	363.759	0.012308
39°29'	220154.2175	30.839217	6358.5374	0.037414	3.003	
			26607.5142	0.262490	364.149	0.012308
39°30'	222004.5705	30.839305	6360.7822	0.037405	3.003	
			26623.2636	0.262616	364.539	0.012308
39°31'	223854.9289	30.839394	6363.0265	0.037396	3.003	
			26639.0205	0.262741	364.930	0.012308
39°32'	225705.2925	30.839483	6365.2703	0.037387	3.002	
			26654.7850	0.262867	365.321	0.012307
39°33'	227555.6614	30.839571	6367.5135	0.037378	3.002	
			26670.5570	0.262993	365.713	0.012307
39°34'	229406.0357	30.839660	6369.7562	0.037369	3.001	
			26686.3366	0.263119	366.106	0.012307
39°35'	231256.4153	30.839749	6371.9983	0.037360	3.001	
			26702.1238	0.263246	366.499	0.012307
39°36'	233106.8002	30.839837	6374.2399	0.037351	3.001	
			26717.9185	0.263372	366.892	0.012307
39°37'	234957.1905	30.839926	6376.4810	0.037342	3.000	
			26733.7208	0.263498	367.286	0.012307
39°38'	236807.5860	30.840015	6378.7215	0.037333	3.000	
			26749.5307	0.263625	367.680	0.012307
39°39'	238657.9869	30.840104	6380.9615	0.037324	2.999	
			26765.3482	0.263752	368.075	0.012307
39°40'	240508.3932	30.840192	6383.2009	0.037315	2.999	
			26781.1733	0.263879	368.471	0.012307
39°41'	242358.8047	30.840281	6385.4398	0.037306	2.999	
			26797.0060	0.264006	368.867	0.012307

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.001

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°42'	244209.2216	30.840370	6387.6782	0.037297	2.998	
			26812.8464	0.264133	369.263	0.012307
39°43'	246059.6438	30.840459	6389.9160	0.037288	2.998	
			26828.6944	0.264260	369.660	0.012307
39°44'	247910.0713	30.840548	6392.1533	0.037279	2.997	
			26844.5500	0.264388	370.058	0.012307
39°45'	249760.5041	30.840636	6394.3900	0.037270	2.997	
			26860.4133	0.264515	370.456	0.012307
39°46'	251610.9423	30.840725	6396.6262	0.037261	2.996	
			26876.2842	0.264643	370.854	0.012307
39°47'	253461.3858	30.840814	6398.8619	0.037252	2.996	
			26892.1628	0.264771	371.253	0.012307
39°48'	255311.8347	30.840903	6401.0970	0.037243	2.996	
			26908.0491	0.264899	371.653	0.012307
39°49'	257162.2889	30.840992	6403.3316	0.037234	2.995	
			26923.9430	0.265027	372.053	0.012307
39°50'	259012.7484	30.841081	6405.5656	0.037225	2.995	
			26939.8446	0.265156	372.453	0.012307
39°51'	260863.2132	30.841170	6407.7991	0.037216	2.994	
			26955.7540	0.265284	372.854	0.012307
39°52'	262713.6834	30.841258	6410.0320	0.037207	2.994	
			26971.6710	0.265413	373.256	0.012307
39°53'	264564.1589	30.841347	6412.2645	0.037198	2.994	
			26987.5958	0.265541	373.658	0.012306
39°54'	266414.6397	30.841436	6414.4963	0.037189	2.993	
			27003.5282	0.265670	374.060	0.012306
39°55'	268265.1259	30.841525	6416.7276	0.037180	2.993	
			27019.4685	0.265799	374.464	0.012306
39°56'	270115.6174	30.841614	6418.9584	0.037171	2.992	
			27035.4164	0.265928	374.867	0.012306
39°57'	271966.1143	30.841703	6421.1887	0.037162	2.992	
			27051.3721	0.266058	375.271	0.012306
39°58'	273816.6164	30.841792	6423.4183	0.037152	2.991	
			27067.3356	0.266187	375.676	0.012306
39°59'	275667.1240	30.841881	6425.6475	0.037143	2.991	
			27083.3068	0.266317	376.081	0.012306
40° 0'	277517.6368	30.841970	6427.8761	0.037134	2.990	
			27099.2858	0.266446	376.487	0.012306
40° 1'	279368.1550	30.842059	6430.1042	0.037125	2.990	
			27115.2725	0.266576	376.893	0.012306
40° 2'	281218.6785	30.842148	6432.3317	0.037116	2.990	
			27131.2671	0.266706	377.300	0.012306
40° 3'	283069.2074	30.842237	6434.5586	0.037107	2.989	
			27147.2695	0.266836	377.707	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40° 4'	284919.7416	30.842326	6436.7851	0.037098	2.989	
			27163.2796	0.266966	378.115	0.012306
40° 5'	286770.2812	30.842415	6439.0110	0.037089	2.988	
			27179.2976	0.267097	378.523	0.012306
40° 6'	288620.8261	30.842504	6441.2363	0.037080	2.988	
			27195.3234	0.267227	378.932	0.012306
40° 7'	290471.3763	30.842593	6443.4611	0.037071	2.987	
			27211.3571	0.267358	379.342	0.012306
40° 8'	292321.9319	30.842682	6445.6853	0.037062	2.987	
			27227.3985	0.267489	379.752	0.012306
40° 9'	294172.4928	30.842771	6447.9090	0.037053	2.986	
			27243.4479	0.267620	380.162	0.012306
40°10'	296023.0590	30.842860	6450.1322	0.037044	2.986	
			27259.5051	0.267751	380.573	0.012306
40°11'	297873.6306	30.842949	6452.3548	0.037034	2.986	
			27275.5701	0.267882	380.985	0.012306
40°12'	299724.2076	30.843038	6454.5769	0.037025	2.985	
			27291.6430	0.268014	381.397	0.012306
40°13'	301574.7899	30.843127	6456.7984	0.037016	2.985	
			27307.7238	0.268145	381.809	0.012306
40°14'	303425.3775	30.843216	6459.0194	0.037007	2.984	
			27323.8125	0.268277	382.222	0.012305
40°15'	305275.9705	30.843305	6461.2398	0.036998	2.984	
			27339.9092	0.268409	382.636	0.012305
40°16'	307126.5688	30.843395	6463.4597	0.036989	2.983	
			27356.0137	0.268541	383.050	0.012305
40°17'	308977.1725	30.843484	6465.6790	0.036980	2.983	
			27372.1261	0.268673	383.465	0.012305
40°18'	310827.7815	30.843573	6467.8978	0.036971	2.982	
			27388.2464	0.268805	383.880	0.012305
40°19'	312678.3959	30.843662	6470.1160	0.036962	2.982	
			27404.3747	0.268937	384.296	0.012305
40°20'	314529.0156	30.843751	6472.3337	0.036952	2.981	
			27420.5110	0.269070	384.712	0.012305
40°21'	316379.6407	30.843840	6474.5509	0.036943	2.981	
			27436.6552	0.269202	385.129	0.012305
40°22'	318230.2711	30.843929	6476.7675	0.036934	2.980	
			27452.8073	0.269335	385.547	0.012305
40°23'	320080.9069	30.844019	6478.9835	0.036925	2.980	
			27468.9674	0.269468	385.965	0.012305
40°24'	321931.5480	30.844108	6481.1990	0.036916	2.979	
			27485.1355	0.269601	386.383	0.012305
40°25'	323782.1945	30.844197	6483.4140	0.036907	2.979	
			27501.3116	0.269735	386.802	0.012305

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°26'	325632.8463	30.844286	6485.6284	0.036898	2.979	
			27517.4957	0.269868	387.222	0.012305
40°27'	327483.5035	30.844375	6487.8422	0.036888	2.978	
			27533.6878	0.270002	387.642	0.012305
40°28'	329334.1660	30.844465	6490.0555	0.036879	2.978	
			27549.8879	0.270135	388.063	0.012305
40°29'	331184.8339	30.844554	6492.2683	0.036870	2.977	
			27566.0960	0.270269	388.484	0.012305
40°30'	333035.5071	30.844643	6494.4805	0.036861	2.977	
			27582.3121	0.270403	388.906	0.012305
40°31'	334886.1857	30.844732	6496.6921	0.036852	2.976	
			27598.5363	0.270537	389.328	0.012305
40°32'	336736.8697	30.844822	6498.9032	0.036843	2.976	
			27614.7685	0.270671	389.751	0.012305
40°33'	338587.5590	30.844911	6501.1138	0.036833	2.975	
			27631.0088	0.270806	390.174	0.012305
40°34'	340438.2536	30.845000	6503.3238	0.036824	2.975	
			27647.2572	0.270940	390.598	0.012305
40°35'	342288.9536	30.845089	6505.5333	0.036815	2.974	
			27663.5136	0.271075	391.023	0.012305
40°36'	344139.6590	30.845179	6507.7422	0.036806	2.974	
			27679.7781	0.271210	391.448	0.012304
40°37'	345990.3697	30.845268	6509.9505	0.036797	2.973	
			27696.0507	0.271345	391.874	0.012304
40°38'	347841.0858	30.845357	6512.1583	0.036788	2.973	
			27712.3314	0.271480	392.300	0.012304
40°39'	349691.8072	30.845447	6514.3656	0.036778	2.972	
			27728.6202	0.271615	392.727	0.012304
40°40'	351542.5340	30.845536	6516.5723	0.036769	2.972	
			27744.9172	0.271751	393.154	0.012304
40°41'	353393.2662	30.845625	6518.7784	0.036760	2.971	
			27761.2222	0.271887	393.582	0.012304
40°42'	355244.0037	30.845715	6520.9840	0.036751	2.971	
			27777.5354	0.272022	394.011	0.012304
40°43'	357094.7466	30.845804	6523.1891	0.036742	2.970	
			27793.8567	0.272158	394.440	0.012304
40°44'	358945.4949	30.845893	6525.3936	0.036732	2.970	
			27810.1862	0.272294	394.869	0.012304
40°45'	360796.2485	30.845983	6527.5975	0.036723	2.969	
			27826.5239	0.272430	395.299	0.012304
40°46'	362647.0074	30.846072	6529.8009	0.036714	2.969	
			27842.8697	0.272567	395.730	0.012304
40°47'	364497.7717	30.846162	6532.0038	0.036705	2.968	
			27859.2237	0.272703	396.161	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°48'	366348.5414	30.846251	6534.2060	0.036696	2.968	
			27875.5859	0.272840	396.593	0.012304
40°49'	368199.3165	30.846340	6536.4078	0.036686	2.967	
			27891.9563	0.272977	397.026	0.012304
40°50'	370050.0969	30.846430	6538.6090	0.036677	2.967	
			27908.3349	0.273114	397.459	0.012304
40°51'	371900.8827	30.846519	6540.8096	0.036668	2.966	
			27924.7217	0.273251	397.892	0.012304
40°52'	373751.6738	30.846609	6543.0097	0.036659	2.966	
			27941.1168	0.273388	398.326	0.012304
40°53'	375602.4704	30.846698	6545.2092	0.036649	2.965	
			27957.5200	0.273525	398.761	0.012304
40°54'	377453.2722	30.846787	6547.4081	0.036640	2.965	
			27973.9316	0.273663	399.196	0.012304
40°55'	379304.0795	30.846877	6549.6065	0.036631	2.964	
			27990.3513	0.273801	399.632	0.012304
40°56'	381154.8921	30.846966	6551.8044	0.036622	2.964	
			28006.7794	0.273938	400.068	0.012304
40°57'	383005.7101	30.847056	6554.0017	0.036612	2.963	
			28023.2157	0.274076	400.505	0.012303
40°58'	384856.5334	30.847145	6556.1985	0.036603	2.963	
			28039.6602	0.274215	400.943	0.012303
40°59'	386707.3621	30.847235	6558.3947	0.036594	2.962	
			28056.1131	0.274353	401.381	0.012303
41° 0'	388558.1962	30.847324	6560.5903	0.036585	2.962	
			28072.5743	0.274491	401.820	0.012303
41° 1'	390409.0357	30.847414	6562.7854	0.036575	2.961	
			28089.0438	0.274630	402.259	0.012303
41° 2'	392259.8805	30.847503	6564.9799	0.036566	2.960	
			28105.5215	0.274769	402.699	0.012303
41° 3'	394110.7307	30.847593	6567.1739	0.036557	2.960	
			28122.0077	0.274907	403.140	0.012303
41° 4'	395961.5862	30.847682	6569.3673	0.036548	2.959	
			28138.5021	0.275047	403.581	0.012303
41° 5'	397812.4472	30.847772	6571.5602	0.036538	2.959	
			28155.0049	0.275186	404.022	0.012303
41° 6'	399663.3135	30.847861	6573.7525	0.036529	2.958	
			28171.5161	0.275325	404.464	0.012303
41° 7'	401514.1852	30.847951	6575.9442	0.036520	2.958	
			28188.0356	0.275465	404.907	0.012303
41° 8'	403365.0622	30.848040	6578.1354	0.036511	2.957	
			28204.5634	0.275604	405.351	0.012303
41° 9'	405215.9446	30.848130	6580.3260	0.036501	2.957	
			28221.0997	0.275744	405.795	0.012303

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°10'	407066.8324	30.848219	6582.5161	0.036492	2.956	
			28237.6443	0.275884	406.239	0.012303
41°11'	408917.7256	30.848309	6584.7056	0.036483	2.956	
			28254.1974	0.276024	406.684	0.012303
41°12'	410768.6241	30.848399	6586.8946	0.036473	2.955	
			28270.7588	0.276164	407.130	0.012303
41°13'	412619.5281	30.848488	6589.0830	0.036464	2.955	
			28287.3287	0.276305	407.576	0.012303
41°14'	414470.4373	30.848578	6591.2709	0.036455	2.954	
			28303.9070	0.276445	408.023	0.012303
41°15'	416321.3520	30.848667	6593.4582	0.036446	2.954	
			28320.4937	0.276586	408.471	0.012303
41°16'	418172.2721	30.848757	6595.6449	0.036436	2.953	
			28337.0889	0.276727	408.919	0.012303
41°17'	420023.1975	30.848847	6597.8311	0.036427	2.952	
			28353.6925	0.276868	409.368	0.012303
41°18'	421874.1283	30.848936	6600.0167	0.036418	2.952	
			28370.3046	0.277009	409.817	0.012302
41°19'	423725.0644	30.849026	6602.2017	0.036408	2.951	
			28386.9252	0.277151	410.267	0.012302
41°20'	425576.0060	30.849115	6604.3862	0.036399	2.951	
			28403.5542	0.277292	410.717	0.012302
41°21'	427426.9529	30.849205	6606.5702	0.036390	2.950	
			28420.1918	0.277434	411.168	0.012302
41°22'	429277.9052	30.849295	6608.7536	0.036380	2.950	
			28436.8378	0.277576	411.620	0.012302
41°23'	431128.8629	30.849384	6610.9364	0.036371	2.949	
			28453.4923	0.277718	412.072	0.012302
41°24'	432979.8260	30.849474	6613.1187	0.036362	2.949	
			28470.1554	0.277860	412.525	0.012302
41°25'	434830.7944	30.849564	6615.3004	0.036352	2.948	
			28486.8270	0.278002	412.979	0.012302
41°26'	436681.7683	30.849653	6617.4815	0.036343	2.947	
			28503.5071	0.278145	413.433	0.012302
41°27'	438532.7475	30.849743	6619.6621	0.036334	2.947	
			28520.1958	0.278287	413.888	0.012302
41°28'	440383.7321	30.849833	6621.8421	0.036324	2.946	
			28536.8930	0.278430	414.343	0.012302
41°29'	442234.7220	30.849923	6624.0216	0.036315	2.946	
			28553.5988	0.278573	414.799	0.012302
41°30'	444085.7174	30.850012	6626.2005	0.036306	2.945	
			28570.3132	0.278716	415.256	0.012302
41°31'	445936.7181	30.850102	6628.3788	0.036296	2.945	
			28587.0362	0.278859	415.713	0.012302

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/.(XVI)
41°32'	447787.7242	30.850192	6630.5566	0.036287	2.944	
			28603.7677	0.279003	416.170	0.012302
41°33'	449638.7357	30.850281	6632.7338	0.036278	2.944	
			28620.5079	0.279146	416.629	0.012302
41°34'	451489.7526	30.850371	6634.9105	0.036268	2.943	
			28637.2567	0.279290	417.088	0.012302
41°35'	453340.7749	30.850461	6637.0866	0.036259	2.942	
			28654.0141	0.279434	417.547	0.012302
41°36'	455191.8025	30.850551	6639.2621	0.036250	2.942	
			28670.7801	0.279578	418.008	0.012302
41°37'	457042.8356	30.850640	6641.4371	0.036240	2.941	
			28687.5548	0.279722	418.468	0.012302
41°38'	458893.8740	30.850730	6643.6115	0.036231	2.941	
			28704.3381	0.279866	418.930	0.012302
41°39'	460744.9178	30.850820	6645.7854	0.036221	2.940	
			28721.1301	0.280011	419.392	0.012301
41°40'	462595.9670	30.850910	6647.9587	0.036212	2.939	
			28737.9307	0.280156	419.855	0.012301
41°41'	464447.0216	30.850999	6650.1314	0.036203	2.939	
			28754.7401	0.280300	420.318	0.012301
41°42'	466298.0815	30.851089	6652.3035	0.036193	2.938	
			28771.5581	0.280445	420.782	0.012301
41°43'	468149.1469	30.851179	6654.4751	0.036184	2.938	
			28788.3848	0.280591	421.247	0.012301
41°44'	470000.2176	30.851269	6656.6462	0.036175	2.937	
			28805.2202	0.280736	421.712	0.012301
41°45'	471851.2937	30.851359	6658.8167	0.036165	2.937	
			28822.0644	0.280881	422.177	0.012301
41°46'	473702.3753	30.851448	6660.9866	0.036156	2.936	
			28838.9173	0.281027	422.644	0.012301
41°47'	475553.4622	30.851538	6663.1559	0.036146	2.935	
			28855.7789	0.281173	423.111	0.012301
41°48'	477404.5544	30.851628	6665.3247	0.036137	2.935	
			28872.6493	0.281319	423.579	0.012301
41°49'	479255.6521	30.851718	6667.4929	0.036128	2.934	
			28889.5284	0.281465	424.047	0.012301
41°50'	481106.7552	30.851808	6669.6606	0.036118	2.934	
			28906.4163	0.281611	424.516	0.012301
41°51'	482957.8637	30.851898	6671.8277	0.036109	2.933	
			28923.3130	0.281758	424.986	0.012301
41°52'	484808.9775	30.851987	6673.9942	0.036099	2.932	
			28940.2184	0.281904	425.456	0.012301
41°53'	486660.0968	30.852077	6676.1602	0.036090	2.932	
			28957.1327	0.282051	425.927	0.012301

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

INDIANA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°54'	488511.2214	30.852167	6678.3256	0.036081	2.931	
			28974.0557	0.282198	426.398	0.012301
41°55'	490362.3514	30.852257	6680.4904	0.036071	2.931	
			28990.9876	0.282345	426.870	0.012301
41°56'	492213.4868	30.852347	6682.6547	0.036062	2.930	
			29007.9283	0.282492	427.343	0.012301
41°57'	494064.6276	30.852437	6684.8184	0.036052	2.929	
			29024.8778	0.282640	427.816	0.012301
41°58'	495915.7738	30.852527	6686.9815	0.036043	2.929	
			29041.8362	0.282787	428.290	0.012301
41°59'	497766.9254	30.852616	6689.1441	0.036033	2.928	
			29058.8035	0.282935	428.765	0.012300
42° 0'	499618.0824	30.852706	6691.3061	0.036024	2.928	
			29075.7796	0.283083	429.240	0.012300

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is IOWA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 41° 30' (latitude of grid origin)
λ_{CM} = 93 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 42 4 (southern standard parallel)
ϕ_n = 43 16 (northern standard parallel)
$E_.$ =1500000.0000 m (easting coordinate of origin)
N_b =1000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.677744566794 = $\sin(\phi_.)$
K = 12083972.0985 m (mapping radius at the equator)
R_b = 7059740.0263 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	42 40 0.00000 94 0 0.00000	6930150.813 m -0 20 19.94022	-0.0059144026 0.9999825098	1459012.298 m 1129710.424 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - $E_.$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	1550000.000 m 1130000.000 m	50000.000 m 6929740.026 m	6929920.4059 m 0 24 48.23207	42 40 7.4672 92 53 24.1402

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
IOWA NORTH

Lat	R (meters)	tab diff.	k
41° 30'	7059740.026	30.85561	1.00015100
41 31	7057888.690	30.85552	1.00014519
41 32	7056037.358	30.85544	1.00013946
41 33	7054186.032	30.85535	1.00013381
41 34	7052334.711	30.85527	1.00012825
41 35	7050483.395	30.85519	1.00012277
41 36	7048632.083	30.85512	1.00011737
41 37	7046780.776	30.85505	1.00011206
41 38	7044929.474	30.85497	1.00010683
41 39	7043078.175	30.85491	1.00010168
41 40	7041226.881	30.85484	1.00009661
41 41	7039375.590	30.85478	1.00009163
41 42	7037524.303	30.85472	1.00008673
41 43	7035673.020	30.85466	1.00008192
41 44	7033821.741	30.85461	1.00007718
41 45	7031970.464	30.85455	1.00007253
41 46	7030119.191	30.85450	1.00006797
41 47	7028267.921	30.85446	1.00006348
41 48	7026416.653	30.85441	1.00005908
41 49	7024565.389	30.85437	1.00005476
41 50	7022714.126	30.85433	1.00005053
41 51	7020862.866	30.85429	1.00004638
41 52	7019011.609	30.85426	1.00004231
41 53	7017160.353	30.85423	1.00003833
41 54	7015309.100	30.85420	1.00003443
41 55	7013457.848	30.85417	1.00003061
41 56	7011606.597	30.85415	1.00002687
41 57	7009755.348	30.85413	1.00002322
41 58	7007904.101	30.85411	1.00001965
41 59	7006052.854	30.85409	1.00001617
42 0	7004201.609	30.85408	1.00001277
42 1	7002350.364	30.85407	1.00000945
42 2	7000499.120	30.85406	1.00000622
42 3	6998647.877	30.85405	1.00000307
42 4	6996796.634	30.85405	1.00000000
42 5	6994945.391	30.85405	0.99999702
42 6	6993094.148	30.85405	0.99999412
42 7	6991242.905	30.85405	0.99999130
42 8	6989391.662	30.85406	0.99998857
42 9	6987540.418	30.85407	0.99998592

Lambert conformal conic projection tables
IOWA NORTH

Lat	R (meters)	tab diff.	k
42° 10'	6985689.174	30.85408	0.99998335
42 11	6983837.929	30.85410	0.99998087
42 12	6981986.683	30.85411	0.99997847
42 13	6980135.437	30.85413	0.99997616
42 14	6978284.188	30.85416	0.99997393
42 15	6976432.939	30.85418	0.99997178
42 16	6974581.688	30.85421	0.99996971
42 17	6972730.436	30.85424	0.99996773
42 18	6970879.181	30.85427	0.99996584
42 19	6969027.925	30.85431	0.99996403
42 20	6967176.667	30.85435	0.99996230
42 21	6965325.406	30.85439	0.99996065
42 22	6963474.143	30.85443	0.99995909
42 23	6961622.877	30.85447	0.99995762
42 24	6959771.609	30.85452	0.99995622
42 25	6957920.337	30.85457	0.99995491
42 26	6956069.063	30.85463	0.99995369
42 27	6954217.785	30.85468	0.99995255
42 28	6952366.504	30.85474	0.99995149
42 29	6950515.220	30.85480	0.99995052
42 30	6948663.931	30.85487	0.99994963
42 31	6946812.639	30.85493	0.99994882
42 32	6944961.343	30.85500	0.99994810
42 33	6943110.043	30.85507	0.99994747
42 34	6941258.739	30.85515	0.99994691
42 35	6939407.430	30.85523	0.99994645
42 36	6937556.116	30.85531	0.99994606
42 37	6935704.798	30.85539	0.99994576
42 38	6933853.475	30.85547	0.99994555
42 39	6932002.146	30.85556	0.99994542
42 40	6930150.813	30.85565	0.99994537
42 41	6928299.474	30.85574	0.99994541
42 42	6926448.129	30.85584	0.99994553
42 43	6924596.779	30.85594	0.99994573
42 44	6922745.423	30.85604	0.99994602
42 45	6920894.060	30.85614	0.99994640
42 46	6919042.692	30.85624	0.99994686
42 47	6917191.318	30.85635	0.99994740
42 48	6915339.936	30.85646	0.99994803
42 49	6913488.549	30.85658	0.99994874

Lambert conformal conic projection tables
IOWA NORTH

Lat	R (meters)	tab diff.	k
42° 50'	6911637.154	30.85669	0.99994954
42 51	6909785.752	30.85681	0.99995042
42 52	6907934.344	30.85693	0.99995139
42 53	6906082.928	30.85706	0.99995244
42 54	6904231.504	30.85718	0.99995357
42 55	6902380.073	30.85731	0.99995479
42 56	6900528.635	30.85744	0.99995610
42 57	6898677.188	30.85758	0.99995748
42 58	6896825.733	30.85772	0.99995896
42 59	6894974.270	30.85786	0.99996052
43 0	6893122.799	30.85800	0.99996216
43 1	6891271.319	30.85814	0.99996389
43 2	6889419.831	30.85829	0.99996570
43 3	6887568.333	30.85844	0.99996760
43 4	6885716.827	30.85859	0.99996958
43 5	6883865.311	30.85875	0.99997165
43 6	6882013.786	30.85891	0.99997380
43 7	6880162.252	30.85907	0.99997604
43 8	6878310.708	30.85923	0.99997836
43 9	6876459.154	30.85940	0.99998077
43 10	6874607.591	30.85956	0.99998326
43 11	6872756.017	30.85973	0.99998584
43 12	6870904.433	30.85991	0.99998850
43 13	6869052.838	30.86008	0.99999125
43 14	6867201.233	30.86026	0.99999408
43 15	6865349.617	30.86045	0.99999700
43 16	6863497.991	30.86063	1.00000000
43 17	6861646.353	30.86082	1.00000309
43 18	6859794.704	30.86101	1.00000626
43 19	6857943.044	30.86120	1.00000952
43 20	6856091.372	30.86139	1.00001286
43 21	6854239.688	30.86159	1.00001629
43 22	6852387.993	30.86179	1.00001981
43 23	6850536.285	30.86199	1.00002340
43 24	6848684.566	30.86220	1.00002709
43 25	6846832.834	30.86241	1.00003086
43 26	6844981.089	30.86262	1.00003471
43 27	6843129.332	30.86283	1.00003866
43 28	6841277.562	30.86305	1.00004268
43 29	6839425.780	30.86326	1.00004679

Lambert conformal conic projection tables
IOWA NORTH

Lat	R (meters)	tab diff.	k
43° 30'	6837573.984	30.86349	1.00005099
43 31	6835722.175	30.86371	1.00005527
43 32	6833870.352	30.86394	1.00005964
43 33	6832018.516	30.86417	1.00006410
43 34	6830166.666	30.86440	1.00006864
43 35	6828314.802	30.86463	1.00007326
43 36	6826462.924	30.86487	1.00007797
43 37	6824611.032	30.86511	1.00008277
43 38	6822759.126	30.86535	1.00008765
43 39	6820907.205	30.86560	1.00009262
43 40	6819055.269	30.86584	1.00009767
43 41	6817203.318	30.86609	1.00010281
43 42	6815351.353	30.86635	1.00010804
43 43	6813499.372	30.86660	1.00011335
43 44	6811647.376	30.86686	1.00011874
43 45	6809795.364	30.86712	1.00012423
43 46	6807943.337	30.86738	1.00012979
43 47	6806091.294	30.86765	1.00013545
43 48	6804239.235	30.86792	1.00014119
43 49	6802387.160	30.86819	1.00014702
43 50	6800535.068	30.86847	1.00015293

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is IOWA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 40° 0' (latitude of grid origin)
λ_{CM} = 93 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 37 (southern standard parallel)
ϕ_n = 41 47 (northern standard parallel)
$E_.$ = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.658701013170 = $\sin(\phi_.)$
K = 12244655.5752 m (mapping radius at the equator)
R_b = 7429044.5139 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 12 0.00000 94 0 0.00000	7295786.283 m -0 19 45.66182	-0.0057482191 0.9999834789	458062.222 m 133378.766 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000 m 140000.000 m	50000.000 m 7289044.514 m	7289216.0021 m 0 23 34.87386	41 15 32.9892 92 54 12.0242

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
IOWA SOUTH

Lat	R (meters)	tab diff.	k
40° 0'	7429044.514	30.84802	1.00016587
40 1	7427193.633	30.84793	1.00015989
40 2	7425342.757	30.84784	1.00015399
40 3	7423491.887	30.84775	1.00014818
40 4	7421641.022	30.84766	1.00014245
40 5	7419790.162	30.84758	1.00013681
40 6	7417939.308	30.84750	1.00013124
40 7	7416088.458	30.84742	1.00012576
40 8	7414237.613	30.84734	1.00012036
40 9	7412386.773	30.84727	1.00011505
40 10	7410535.937	30.84720	1.00010982
40 11	7408685.105	30.84713	1.00010467
40 12	7406834.277	30.84706	1.00009960
40 13	7404983.454	30.84700	1.00009462
40 14	7403132.634	30.84694	1.00008972
40 15	7401281.818	30.84688	1.00008490
40 16	7399431.005	30.84682	1.00008017
40 17	7397580.195	30.84677	1.00007552
40 18	7395729.389	30.84672	1.00007095
40 19	7393878.586	30.84667	1.00006647
40 20	7392027.786	30.84663	1.00006206
40 21	7390176.988	30.84658	1.00005775
40 22	7388326.193	30.84654	1.00005351
40 23	7386475.400	30.84651	1.00004936
40 24	7384624.610	30.84647	1.00004529
40 25	7382773.822	30.84644	1.00004131
40 26	7380923.035	30.84641	1.00003741
40 27	7379072.251	30.84638	1.00003359
40 28	7377221.468	30.84636	1.00002986
40 29	7375370.686	30.84634	1.00002620
40 30	7373519.906	30.84632	1.00002264
40 31	7371669.127	30.84630	1.00001915
40 32	7369818.349	30.84628	1.00001575
40 33	7367967.572	30.84627	1.00001243
40 34	7366116.796	30.84626	1.00000920
40 35	7364266.020	30.84626	1.00000605
40 36	7362415.245	30.84625	1.00000298
40 37	7360564.470	30.84625	1.00000000
40 38	7358713.695	30.84625	0.99999710
40 39	7356862.919	30.84626	0.99999428

Lambert conformal conic projection tables
IOWA SOUTH

Lat	R (meters)	tab diff.	k
40° 40'	7355012.144	30.84626	0.99999155
40 41	7353161.368	30.84627	0.99998890
40 42	7351310.592	30.84628	0.99998634
40 43	7349459.815	30.84630	0.99998386
40 44	7347609.037	30.84631	0.99998146
40 45	7345758.258	30.84633	0.99997914
40 46	7343907.478	30.84635	0.99997691
40 47	7342056.697	30.84638	0.99997477
40 48	7340205.914	30.84641	0.99997270
40 49	7338355.130	30.84644	0.99997072
40 50	7336504.344	30.84647	0.99996883
40 51	7334653.556	30.84650	0.99996702
40 52	7332802.765	30.84654	0.99996529
40 53	7330951.973	30.84658	0.99996364
40 54	7329101.178	30.84662	0.99996208
40 55	7327250.381	30.84667	0.99996061
40 56	7325399.581	30.84672	0.99995922
40 57	7323548.778	30.84677	0.99995791
40 58	7321697.972	30.84682	0.99995668
40 59	7319847.163	30.84688	0.99995554
41 0	7317996.350	30.84693	0.99995449
41 1	7316145.534	30.84699	0.99995351
41 2	7314294.714	30.84706	0.99995263
41 3	7312443.891	30.84712	0.99995182
41 4	7310593.064	30.84719	0.99995110
41 5	7308742.232	30.84726	0.99995046
41 6	7306891.396	30.84734	0.99994991
41 7	7305040.556	30.84741	0.99994945
41 8	7303189.711	30.84749	0.99994906
41 9	7301338.862	30.84757	0.99994876
41 10	7299488.007	30.84766	0.99994855
41 11	7297637.148	30.84775	0.99994842
41 12	7295786.283	30.84783	0.99994837
41 13	7293935.413	30.84793	0.99994841
41 14	7292084.537	30.84802	0.99994853
41 15	7290233.656	30.84812	0.99994874
41 16	7288382.769	30.84822	0.99994903
41 17	7286531.876	30.84832	0.99994940
41 18	7284680.977	30.84843	0.99994986
41 19	7282830.071	30.84853	0.99995041

Lambert conformal conic projection tables
IOWA SOUTH

Lat	R (meters)	tab diff.	k
41° 20'	7280979.159	30.84864	0.99995103
41 21	7279128.240	30.84876	0.99995175
41 22	7277277.315	30.84887	0.99995254
41 23	7275426.383	30.84899	0.99995343
41 24	7273575.443	30.84911	0.99995439
41 25	7271724.497	30.84923	0.99995544
41 26	7269873.543	30.84936	0.99995658
41 27	7268022.581	30.84949	0.99995780
41 28	7266171.612	30.84962	0.99995910
41 29	7264320.634	30.84975	0.99996049
41 30	7262469.649	30.84989	0.99996197
41 31	7260618.656	30.85003	0.99996352
41 32	7258767.654	30.85017	0.99996517
41 33	7256916.643	30.85032	0.99996690
41 34	7255065.624	30.85046	0.99996871
41 35	7253214.597	30.85061	0.99997061
41 36	7251363.560	30.85076	0.99997259
41 37	7249512.514	30.85092	0.99997466
41 38	7247661.459	30.85108	0.99997681
41 39	7245810.394	30.85124	0.99997905
41 40	7243959.320	30.85140	0.99998137
41 41	7242108.236	30.85157	0.99998377
41 42	7240257.142	30.85173	0.99998627
41 43	7238406.038	30.85190	0.99998884
41 44	7236554.924	30.85208	0.99999150
41 45	7234703.799	30.85225	0.99999425
41 46	7232852.664	30.85243	0.99999708
41 47	7231001.518	30.85261	1.0000000
41 48	7229150.361	30.85280	1.00000300
41 49	7227299.193	30.85298	1.00000609
41 50	7225448.014	30.85317	1.00000926
41 51	7223596.824	30.85336	1.00001252
41 52	7221745.622	30.85356	1.00001586
41 53	7219894.409	30.85375	1.00001929
41 54	7218043.184	30.85395	1.00002280
41 55	7216191.946	30.85416	1.00002640
41 56	7214340.697	30.85436	1.00003008
41 57	7212489.435	30.85457	1.00003385
41 58	7210638.161	30.85478	1.00003771
41 59	7208786.874	30.85499	1.00004165

Lambert conformal conic projection tables
IOWA SOUTH

Lat	R (meters)	tab diff.	k
42° 0'	7206935.575	30.85521	1.00004567
42 1	7205084.262	30.85543	1.00004978
42 2	7203232.937	30.85565	1.00005398
42 3	7201381.598	30.85587	1.00005826
42 4	7199530.246	30.85610	1.00006262
42 5	7197678.880	30.85632	1.00006708
42 6	7195827.501	30.85656	1.00007161
42 7	7193976.108	30.85679	1.00007624
42 8	7192124.700	30.85703	1.00008094
42 9	7190273.279	30.85726	1.00008574
42 10	7188421.843	30.85751	1.00009062
42 11	7186570.392	30.85775	1.00009558
42 12	7184718.927	30.85800	1.00010064
42 13	7182867.448	30.85825	1.00010577
42 14	7181015.953	30.85850	1.00011100
42 15	7179164.443	30.85876	1.00011630
42 16	7177312.917	30.85901	1.00012170
42 17	7175461.377	30.85927	1.00012718
42 18	7173609.820	30.85954	1.00013274
42 19	7171758.248	30.85980	1.00013839
42 20	7169906.660	30.86007	1.00014413
42 21	7168055.055	30.86034	1.00014996
42 22	7166203.435	30.86062	1.00015586
42 23	7164351.798	30.86089	1.00016186
42 24	7162500.144	30.86117	1.00016794
42 25	7160648.474	30.86145	1.00017411
42 26	7158796.787	30.86174	1.00018036
42 27	7156945.083	30.86202	1.00018670
42 28	7155093.361	30.86231	1.00019313
42 29	7153241.623	30.86261	1.00019964
42 30	7151389.866	30.86290	1.00020623
42 31	7149538.092	30.86320	1.00021292
42 32	7147686.300	30.86350	1.00021969
42 33	7145834.490	30.86380	1.00022654
42 34	7143982.662	30.86411	1.00023349
42 35	7142130.816	30.86442	1.00024051
42 36	7140278.951	30.86473	1.00024763
42 37	7138427.067	30.86504	1.00025483
42 38	7136575.165	30.86536	1.00026212
42 39	7134723.243	30.86568	1.00026949

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is KANSAS NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 38° 20' (latitude of grid origin)
λ_{CM} = 98 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 38 43 (southern standard parallel)
ϕ_n = 39 47 (northern standard parallel)
E_r = 400000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.632714613092 = \sin(\phi_r)$
K = 12497179.1821 m (mapping radius at the equator)
R_b = 7918239.4709 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_r)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_r$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	39 15 0.00000 98 30 0.00000	7816478.988 m -0 18 58.88630	-0.0055214486 0.9999847567	356841.713 m 101879.632 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_r)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_r R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	450000.000 m 110000.000 m	50000.000 m 7808239.471 m	7808399.5566 m 0 22 0.79701	39 19 21.9974 97 25 12.4917

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
KANSAS NORTH

Lat	R (meters)	tab diff.	k
38° 20'	7918239.471	30.83667	1.00008396
38 21	7916389.271	30.83662	1.00007939
38 22	7914539.073	30.83657	1.00007491
38 23	7912688.879	30.83652	1.00007050
38 24	7910838.688	30.83648	1.00006619
38 25	7908988.499	30.83644	1.00006195
38 26	7907138.313	30.83640	1.00005780
38 27	7905288.129	30.83636	1.00005373
38 28	7903437.947	30.83633	1.00004975
38 29	7901587.767	30.83630	1.00004585
38 30	7899737.589	30.83627	1.00004203
38 31	7897887.413	30.83625	1.00003830
38 32	7896037.238	30.83622	1.00003465
38 33	7894187.065	30.83620	1.00003108
38 34	7892336.893	30.83618	1.00002760
38 35	7890486.722	30.83617	1.00002419
38 36	7888636.552	30.83615	1.00002088
38 37	7886786.382	30.83614	1.00001764
38 38	7884936.214	30.83614	1.00001450
38 39	7883086.046	30.83613	1.00001143
38 40	7881235.878	30.83613	1.00000845
38 41	7879385.710	30.83613	1.00000555
38 42	7877535.542	30.83613	1.00000273
38 43	7875685.374	30.83614	1.00000000
38 44	7873835.206	30.83614	0.99999735
38 45	7871985.038	30.83615	0.99999479
38 46	7870134.868	30.83617	0.99999231
38 47	7868284.698	30.83618	0.99998991
38 48	7866434.527	30.83620	0.99998760
38 49	7864584.355	30.83622	0.99998537
38 50	7862734.182	30.83625	0.99998322
38 51	7860884.007	30.83627	0.99998116
38 52	7859033.831	30.83630	0.99997918
38 53	7857183.653	30.83633	0.99997729
38 54	7855333.473	30.83636	0.99997547
38 55	7853483.291	30.83640	0.99997375
38 56	7851633.107	30.83644	0.99997211
38 57	7849782.921	30.83648	0.99997055
38 58	7847932.732	30.83653	0.99996907
38 59	7846082.540	30.83657	0.99996768

Lambert conformal conic projection tables
KANSAS NORTH

Lat	R (meters)	tab diff.	k
39° 0'	7844232.346	30.83662	0.99996637
39 1	7842382.148	30.83667	0.99996515
39 2	7840531.948	30.83673	0.99996401
39 3	7838681.744	30.83679	0.99996295
39 4	7836831.537	30.83685	0.99996198
39 5	7834981.327	30.83691	0.99996110
39 6	7833131.112	30.83697	0.99996029
39 7	7831280.894	30.83704	0.99995957
39 8	7829430.671	30.83711	0.99995894
39 9	7827580.445	30.83718	0.99995839
39 10	7825730.214	30.83726	0.99995792
39 11	7823879.978	30.83734	0.99995754
39 12	7822029.738	30.83742	0.99995724
39 13	7820179.493	30.83750	0.99995703
39 14	7818329.243	30.83759	0.99995690
39 15	7816478.988	30.83767	0.99995685
39 16	7814628.728	30.83776	0.99995689
39 17	7812778.462	30.83786	0.99995701
39 18	7810928.190	30.83795	0.99995722
39 19	7809077.913	30.83805	0.99995751
39 20	7807227.630	30.83816	0.99995789
39 21	7805377.340	30.83826	0.99995835
39 22	7803527.045	30.83837	0.99995889
39 23	7801676.743	30.83848	0.99995952
39 24	7799826.434	30.83859	0.99996024
39 25	7797976.119	30.83870	0.99996103
39 26	7796125.797	30.83882	0.99996192
39 27	7794275.468	30.83894	0.99996288
39 28	7792425.132	30.83906	0.99996393
39 29	7790574.788	30.83919	0.99996507
39 30	7788724.437	30.83931	0.99996629
39 31	7786874.078	30.83944	0.99996760
39 32	7785023.711	30.83958	0.99996899
39 33	7783173.337	30.83971	0.99997046
39 34	7781322.954	30.83985	0.99997202
39 35	7779472.563	30.83999	0.99997366
39 36	7777622.164	30.84013	0.99997539
39 37	7775771.755	30.84028	0.99997720
39 38	7773921.339	30.84043	0.99997910
39 39	7772070.913	30.84058	0.99998109

Lambert conformal conic projection tables
KANSAS NORTH

Lat	R (meters)	tab diff.	k
39° 40'	7770220.478	30.84073	0.99998315
39 41	7768370.034	30.84089	0.99998530
39 42	7766519.581	30.84105	0.99998754
39 43	7764669.118	30.84121	0.99998986
39 44	7762818.645	30.84138	0.99999227
39 45	7760968.163	30.84154	0.99999476
39 46	7759117.670	30.84171	0.99999734
39 47	7757267.167	30.84188	1.00000000
39 48	7755416.654	30.84206	1.00000275
39 49	7753566.131	30.84224	1.00000558
39 50	7751715.596	30.84242	1.00000849
39 51	7749865.051	30.84260	1.00001150
39 52	7748014.495	30.84278	1.00001458
39 53	7746163.928	30.84297	1.00001775
39 54	7744313.350	30.84316	1.00002101
39 55	7742462.760	30.84336	1.00002435
39 56	7740612.159	30.84355	1.00002778
39 57	7738761.546	30.84375	1.00003129
39 58	7736910.921	30.84395	1.00003489
39 59	7735060.283	30.84416	1.00003857
40 0	7733209.634	30.84436	1.00004234
40 1	7731358.972	30.84457	1.00004619
40 2	7729508.298	30.84478	1.00005013
40 3	7727657.611	30.84500	1.00005415
40 4	7725806.911	30.84522	1.00005826
40 5	7723956.198	30.84544	1.00006245
40 6	7722105.472	30.84566	1.00006673
40 7	7720254.732	30.84588	1.00007110
40 8	7718403.980	30.84611	1.00007555
40 9	7716553.213	30.84634	1.00008008
40 10	7714702.433	30.84657	1.00008470
40 11	7712851.638	30.84681	1.00008941
40 12	7711000.830	30.84705	1.00009420
40 13	7709150.007	30.84729	1.00009908
40 14	7707299.170	30.84753	1.00010404
40 15	7705448.318	30.84778	1.00010909
40 16	7703597.451	30.84803	1.00011422
40 17	7701746.569	30.84828	1.00011944
40 18	7699895.673	30.84853	1.00012475
40 19	7698044.761	30.84879	1.00013014

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is KANSAS SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 36° 40' (latitude of grid origin)
λ_{CM} = 98 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 37 16 (southern standard parallel)
ϕ_n = 38 34 (northern standard parallel)
E_o = 400000.0000 m (easting coordinate of origin)
N_b = 400000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.614528111936 = \sin(\phi_o)$
K = 12697806.8013 m (mapping radius at the equator)
R_b = 8336559.0467 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	37 55 0.00000 99 0 0.00000	8197828.088 m -0 18 26.15060	-0.0053627437 0.9999856204	356037.149 m 538848.840 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	450000.000 m 540000.000 m	50000.000 m 8196559.047 m	8196711.5483 m 0 20 58.22462	37 55 36.2160 97 55 52.5353

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
KANSAS SOUTH

Lat	R (meters)	tab diff.	k
36° 40'	8336559.047	30.83064	1.00017196
36 41	8334709.208	30.83053	1.00016572
36 42	8332859.376	30.83043	1.00015958
36 43	8331009.550	30.83033	1.00015351
36 44	8329159.730	30.83024	1.00014753
36 45	8327309.916	30.83014	1.00014163
36 46	8325460.108	30.83005	1.00013581
36 47	8323610.305	30.82996	1.00013008
36 48	8321760.507	30.82988	1.00012443
36 49	8319910.714	30.82979	1.00011886
36 50	8318060.927	30.82971	1.00011338
36 51	8316211.144	30.82963	1.00010798
36 52	8314361.366	30.82956	1.00010266
36 53	8312511.593	30.82948	1.00009742
36 54	8310661.824	30.82941	1.00009227
36 55	8308812.059	30.82934	1.00008720
36 56	8306962.299	30.82928	1.00008222
36 57	8305112.542	30.82921	1.00007731
36 58	8303262.789	30.82915	1.00007250
36 59	8301413.040	30.82910	1.00006776
37 0	8299563.294	30.82904	1.00006311
37 1	8297713.552	30.82899	1.00005854
37 2	8295863.812	30.82894	1.00005405
37 3	8294014.076	30.82889	1.00004965
37 4	8292164.343	30.82885	1.00004533
37 5	8290314.612	30.82880	1.00004109
37 6	8288464.884	30.82876	1.00003694
37 7	8286615.158	30.82873	1.00003287
37 8	8284765.434	30.82869	1.00002888
37 9	8282915.713	30.82866	1.00002498
37 10	8281065.993	30.82863	1.00002116
37 11	8279216.276	30.82860	1.00001743
37 12	8277366.560	30.82858	1.00001377
37 13	8275516.845	30.82856	1.00001021
37 14	8273667.131	30.82854	1.00000672
37 15	8271817.419	30.82852	1.00000332
37 16	8269967.708	30.82851	1.0000000
37 17	8268117.998	30.82850	0.99999677
37 18	8266268.288	30.82849	0.99999361
37 19	8264418.579	30.82848	0.99999055

Lambert conformal conic projection tables
KANSAS SOUTH

Lat	R (meters)	tab diff.	k
37° 20'	8262568.870	30.82848	0.99998756
37 21	8260719.161	30.82848	0.99998466
37 22	8258869.453	30.82848	0.99998184
37 23	8257019.744	30.82848	0.99997911
37 24	8255170.035	30.82849	0.99997646
37 25	8253320.326	30.82850	0.99997390
37 26	8251470.616	30.82851	0.99997141
37 27	8249620.906	30.82852	0.99996901
37 28	8247771.194	30.82854	0.99996670
37 29	8245921.482	30.82856	0.99996447
37 30	8244071.768	30.82858	0.99996232
37 31	8242222.053	30.82861	0.99996026
37 32	8240372.337	30.82863	0.99995828
37 33	8238522.619	30.82866	0.99995638
37 34	8236672.899	30.82870	0.99995457
37 35	8234823.177	30.82873	0.99995284
37 36	8232973.453	30.82877	0.99995120
37 37	8231123.727	30.82881	0.99994964
37 38	8229273.998	30.82885	0.99994816
37 39	8227424.267	30.82890	0.99994677
37 40	8225574.533	30.82895	0.99994546
37 41	8223724.796	30.82900	0.99994424
37 42	8221875.056	30.82905	0.99994310
37 43	8220025.313	30.82911	0.99994204
37 44	8218175.567	30.82917	0.99994107
37 45	8216325.816	30.82923	0.99994018
37 46	8214476.063	30.82929	0.99993937
37 47	8212626.305	30.82936	0.99993865
37 48	8210776.544	30.82943	0.99993802
37 49	8208926.778	30.82950	0.99993746
37 50	8207077.008	30.82957	0.99993700
37 51	8205227.233	30.82965	0.99993661
37 52	8203377.454	30.82973	0.99993631
37 53	8201527.671	30.82981	0.99993610
37 54	8199677.882	30.82990	0.99993597
37 55	8197828.088	30.82999	0.99993592
37 56	8195978.289	30.83008	0.99993596
37 57	8194128.484	30.83017	0.99993608
37 58	8192278.674	30.83026	0.99993628
37 59	8190428.858	30.83036	0.99993657

Lambert conformal conic projection tables
KANSAS SOUTH

Lat	R (meters)	tab diff.	k
38° 0'	8188579.037	30.83046	0.99993695
38 1	8186729.209	30.83056	0.99993741
38 2	8184879.375	30.83067	0.99993795
38 3	8183029.535	30.83078	0.99993858
38 4	8181179.688	30.83089	0.99993929
38 5	8179329.835	30.83100	0.99994009
38 6	8177479.975	30.83112	0.99994097
38 7	8175630.108	30.83124	0.99994193
38 8	8173780.234	30.83136	0.99994298
38 9	8171930.352	30.83148	0.99994412
38 10	8170080.463	30.83161	0.99994533
38 11	8168230.566	30.83174	0.99994664
38 12	8166380.662	30.83187	0.99994803
38 13	8164530.750	30.83201	0.99994950
38 14	8162680.830	30.83214	0.99995106
38 15	8160830.901	30.83228	0.99995270
38 16	8158980.964	30.83242	0.99995442
38 17	8157131.019	30.83257	0.99995624
38 18	8155281.064	30.83272	0.99995813
38 19	8153431.101	30.83287	0.99996011
38 20	8151581.129	30.83302	0.99996218
38 21	8149731.148	30.83318	0.99996433
38 22	8147881.158	30.83333	0.99996656
38 23	8146031.158	30.83349	0.99996888
38 24	8144181.148	30.83366	0.99997129
38 25	8142331.129	30.83382	0.99997378
38 26	8140481.099	30.83399	0.99997635
38 27	8138631.060	30.83416	0.99997901
38 28	8136781.010	30.83434	0.99998175
38 29	8134930.950	30.83451	0.99998458
38 30	8133080.879	30.83469	0.99998749
38 31	8131230.797	30.83487	0.99999049
38 32	8129380.705	30.83506	0.99999358
38 33	8127530.601	30.83525	0.99999675
38 34	8125680.486	30.83544	1.0000000
38 35	8123830.360	30.83563	1.00000334
38 36	8121980.222	30.83582	1.00000676
38 37	8120130.073	30.83602	1.00001027
38 38	8118279.912	30.83622	1.00001387
38 39	8116429.739	30.83642	1.00001755

Lambert conformal conic projection tables
KANSAS SOUTH

Lat	R (meters)	tab diff.	k
38° 40'	8114579.553	30.83663	1.00002131
38 41	8112729.355	30.83684	1.00002516
38 42	8110879.145	30.83705	1.00002909
38 43	8109028.922	30.83726	1.00003311
38 44	8107178.687	30.83748	1.00003722
38 45	8105328.438	30.83770	1.00004141
38 46	8103478.176	30.83792	1.00004569
38 47	8101627.901	30.83814	1.00005005
38 48	8099777.612	30.83837	1.00005449
38 49	8097927.310	30.83860	1.00005902
38 50	8096076.994	30.83883	1.00006364
38 51	8094226.665	30.83906	1.00006834
38 52	8092376.321	30.83930	1.00007313
38 53	8090525.963	30.83954	1.00007801
38 54	8088675.590	30.83978	1.00008297
38 55	8086825.203	30.84003	1.00008801
38 56	8084974.802	30.84028	1.00009314
38 57	8083124.385	30.84053	1.00009835
38 58	8081273.953	30.84078	1.00010366
38 59	8079423.506	30.84104	1.00010904
39 0	8077573.044	30.84129	1.00011451

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is KENTUCKY NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 37° 30' (latitude of grid origin)
λ_{CM} = 84 15 (longitude of origin and Central Meridian, CM)
ϕ_s = 37 58 (southern standard parallel)
ϕ_n = 38 58 (northern standard parallel)
E_r = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.622067254037 = \sin(\phi_r)$
K = 12612341.7840 m (mapping radius at the equator)
R_b = 8145306.4712 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_r)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_r$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	38 28 0.00000 84 45 0.00000	8038009.183 m -0 18 39.72106	-0.0054285342 0.9999852654	456365.392 m 107415.725 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_r)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_r R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000 m 110000.000 m	50000.000 m 8035306.471 m	8035462.0331 m 0 21 23.47403	38 29 22.6093 83 40 36.7600

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
KENTUCKY NORTH

Lat	R (meters)	tab diff.	k
37° 30'	8145306.471	30.83289	1.00010336
37 31	8143456.498	30.83283	1.00009855
37 32	8141606.528	30.83277	1.00009381
37 33	8139756.562	30.83272	1.00008916
37 34	8137906.599	30.83266	1.00008459
37 35	8136056.639	30.83261	1.00008011
37 36	8134206.682	30.83257	1.00007571
37 37	8132356.728	30.83252	1.00007139
37 38	8130506.777	30.83248	1.00006716
37 39	8128656.828	30.83244	1.00006301
37 40	8126806.882	30.83240	1.00005894
37 41	8124956.937	30.83237	1.00005496
37 42	8123106.995	30.83234	1.00005106
37 43	8121257.055	30.83231	1.00004724
37 44	8119407.116	30.83228	1.00004350
37 45	8117557.179	30.83226	1.00003985
37 46	8115707.244	30.83224	1.00003629
37 47	8113857.310	30.83222	1.00003280
37 48	8112007.376	30.83220	1.00002940
37 49	8110157.444	30.83219	1.00002609
37 50	8108307.513	30.83218	1.00002285
37 51	8106457.582	30.83217	1.00001970
37 52	8104607.652	30.83216	1.00001664
37 53	8102757.722	30.83216	1.00001366
37 54	8100907.792	30.83216	1.00001076
37 55	8099057.863	30.83216	1.00000794
37 56	8097207.933	30.83217	1.00000521
37 57	8095358.003	30.83217	1.00000256
37 58	8093508.072	30.83218	1.00000000
37 59	8091658.141	30.83220	0.99999752
38 0	8089808.209	30.83221	0.99999512
38 1	8087958.277	30.83223	0.99999281
38 2	8086108.343	30.83225	0.99999058
38 3	8084258.408	30.83227	0.99998844
38 4	8082408.471	30.83230	0.99998637
38 5	8080558.534	30.83233	0.99998440
38 6	8078708.594	30.83236	0.99998250
38 7	8076858.653	30.83239	0.99998069
38 8	8075008.709	30.83243	0.99997897
38 9	8073158.764	30.83246	0.99997732

Lambert conformal conic projection tables
KENTUCKY NORTH

Lat	R (meters)	tab diff.	k
38° 10'	8071308.816	30.83251	0.99997576
38 11	8069458.865	30.83255	0.99997429
38 12	8067608.913	30.83259	0.99997290
38 13	8065758.957	30.83264	0.99997159
38 14	8063908.998	30.83269	0.99997037
38 15	8062059.037	30.83275	0.99996923
38 16	8060209.072	30.83281	0.99996818
38 17	8058359.103	30.83286	0.99996721
38 18	8056509.131	30.83293	0.99996632
38 19	8054659.156	30.83299	0.99996552
38 20	8052809.176	30.83306	0.99996480
38 21	8050959.193	30.83313	0.99996416
38 22	8049109.205	30.83320	0.99996361
38 23	8047259.213	30.83327	0.99996315
38 24	8045409.217	30.83335	0.99996277
38 25	8043559.216	30.83343	0.99996247
38 26	8041709.210	30.83351	0.99996225
38 27	8039859.199	30.83360	0.99996212
38 28	8038009.183	30.83369	0.99996208
38 29	8036159.162	30.83378	0.99996212
38 30	8034309.135	30.83387	0.99996224
38 31	8032459.103	30.83397	0.99996245
38 32	8030609.065	30.83407	0.99996274
38 33	8028759.021	30.83417	0.99996312
38 34	8026908.971	30.83427	0.99996358
38 35	8025058.915	30.83438	0.99996412
38 36	8023208.852	30.83448	0.99996475
38 37	8021358.783	30.83460	0.99996547
38 38	8019508.707	30.83471	0.99996627
38 39	8017658.625	30.83483	0.99996715
38 40	8015808.535	30.83495	0.99996812
38 41	8013958.438	30.83507	0.99996917
38 42	8012108.334	30.83519	0.99997031
38 43	8010258.223	30.83532	0.99997153
38 44	8008408.103	30.83545	0.99997283
38 45	8006557.976	30.83558	0.99997422
38 46	8004707.842	30.83572	0.99997570
38 47	8002857.699	30.83585	0.99997726
38 48	8001007.547	30.83599	0.99997890
38 49	7999157.388	30.83614	0.99998063

Lambert conformal conic projection tables
KENTUCKY NORTH

Lat	R (meters)	tab diff.	k
38° 50'	7997307.219	30.83628	0.99998244
38 51	7995457.042	30.83643	0.99998434
38 52	7993606.857	30.83658	0.99998632
38 53	7991756.662	30.83673	0.99998839
38 54	7989906.458	30.83689	0.99999054
38 55	7988056.244	30.83705	0.99999278
38 56	7986206.021	30.83721	0.99999510
38 57	7984355.789	30.83737	0.99999751
38 58	7982505.546	30.83754	1.00000000
38 59	7980655.294	30.83771	1.00000258
39 0	7978805.031	30.83788	1.00000524
39 1	7976954.758	30.83806	1.00000798
39 2	7975104.475	30.83823	1.00001082
39 3	7973254.181	30.83841	1.00001373
39 4	7971403.876	30.83859	1.00001673
39 5	7969553.561	30.83878	1.00001982
39 6	7967703.234	30.83897	1.00002299
39 7	7965852.896	30.83916	1.00002625
39 8	7964002.546	30.83935	1.00002959
39 9	7962152.185	30.83955	1.00003301
39 10	7960301.813	30.83974	1.00003653
39 11	7958451.428	30.83994	1.00004012
39 12	7956601.031	30.84015	1.00004381
39 13	7954750.623	30.84035	1.00004757
39 14	7952900.201	30.84056	1.00005142
39 15	7951049.768	30.84077	1.00005536
39 16	7949199.321	30.84099	1.00005938
39 17	7947348.862	30.84120	1.00006349
39 18	7945498.390	30.84142	1.00006769
39 19	7943647.904	30.84164	1.00007196
39 20	7941797.406	30.84187	1.00007633
39 21	7939946.893	30.84210	1.00008078
39 22	7938096.368	30.84233	1.00008531
39 23	7936245.828	30.84256	1.00008993
39 24	7934395.275	30.84279	1.00009464
39 25	7932544.707	30.84303	1.00009943
39 26	7930694.125	30.84327	1.00010431
39 27	7928843.529	30.84351	1.00010927
39 28	7926992.918	30.84376	1.00011432
39 29	7925142.292	30.84401	1.00011945

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is KENTUCKY SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 36° 20' (latitude of grid origin)
λ_{CM} = 85 45 (longitude of origin and Central Meridian, CM)
ϕ_s = 36 44 (southern standard parallel)
ϕ_n = 37 56 (northern standard parallel)
E_b = 500000.0000 m (easting coordinate of origin)
N_b = 500000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.606462358287 = \sin(\phi_r)$
K = 12793783.0812 m (mapping radius at the equator)
R_b = 8483079.4552 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_r)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_b$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	37 20 0.00000 86 15 0.00000	8372105.380 m -0 18 11.63225	-0.0052923578 0.9999859954	455691.823 m 611091.324 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_b)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_b R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000 m 620000.000 m	50000.000 m 8363079.455 m	8363228.9203 m 0 20 33.17224	37 24 47.9406 85 11 6.6137

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
KENTUCKY SOUTH

Lat	R (meters)	tab diff.	k
36° 20'	8483079.455	30.82661	1.00009664
36 21	8481229.859	30.82654	1.00009166
36 22	8479380.266	30.82648	1.00008676
36 23	8477530.677	30.82642	1.00008194
36 24	8475681.092	30.82636	1.00007720
36 25	8473831.511	30.82630	1.00007255
36 26	8471981.932	30.82625	1.00006798
36 27	8470132.357	30.82620	1.00006349
36 28	8468282.785	30.82615	1.00005909
36 29	8466433.216	30.82611	1.00005477
36 30	8464583.650	30.82606	1.00005054
36 31	8462734.086	30.82602	1.00004639
36 32	8460884.525	30.82599	1.00004232
36 33	8459034.966	30.82595	1.00003833
36 34	8457185.409	30.82592	1.00003443
36 35	8455335.853	30.82589	1.00003061
36 36	8453486.300	30.82586	1.00002688
36 37	8451636.749	30.82584	1.00002322
36 38	8449787.199	30.82581	1.00001966
36 39	8447937.650	30.82579	1.00001617
36 40	8446088.102	30.82578	1.00001277
36 41	8444238.556	30.82576	1.00000945
36 42	8442389.010	30.82575	1.00000622
36 43	8440539.465	30.82574	1.00000307
36 44	8438689.921	30.82573	1.0000000
36 45	8436840.377	30.82573	0.99999702
36 46	8434990.833	30.82573	0.99999412
36 47	8433141.289	30.82573	0.99999130
36 48	8431291.745	30.82573	0.99998857
36 49	8429442.201	30.82574	0.99998592
36 50	8427592.657	30.82575	0.99998335
36 51	8425743.112	30.82576	0.99998087
36 52	8423893.567	30.82577	0.99997847
36 53	8422044.020	30.82579	0.99997616
36 54	8420194.473	30.82581	0.99997393
36 55	8418344.924	30.82583	0.99997178
36 56	8416495.375	30.82586	0.99996972
36 57	8414645.823	30.82588	0.99996774
36 58	8412796.270	30.82591	0.99996585
36 59	8410946.716	30.82594	0.99996404

Lambert conformal conic projection tables
KENTUCKY SOUTH

Lat	R (meters)	tab diff.	k
37° 0'	8409097.159	30.82598	0.99996231
37 1	8407247.600	30.82602	0.99996067
37 2	8405398.039	30.82606	0.99995911
37 3	8403548.476	30.82610	0.99995763
37 4	8401698.910	30.82614	0.99995624
37 5	8399849.341	30.82619	0.99995493
37 6	8397999.770	30.82624	0.99995371
37 7	8396150.195	30.82630	0.99995257
37 8	8394300.618	30.82635	0.99995151
37 9	8392451.036	30.82641	0.99995054
37 10	8390601.452	30.82647	0.99994965
37 11	8388751.864	30.82653	0.99994885
37 12	8386902.272	30.82660	0.99994813
37 13	8385052.676	30.82667	0.99994749
37 14	8383203.076	30.82674	0.99994694
37 15	8381353.471	30.82681	0.99994647
37 16	8379503.862	30.82689	0.99994609
37 17	8377654.249	30.82697	0.99994579
37 18	8375804.631	30.82705	0.99994558
37 19	8373955.008	30.82713	0.99994545
37 20	8372105.380	30.82722	0.99994540
37 21	8370255.747	30.82731	0.99994544
37 22	8368406.108	30.82740	0.99994556
37 23	8366556.464	30.82750	0.99994577
37 24	8364706.814	30.82760	0.99994606
37 25	8362857.158	30.82770	0.99994643
37 26	8361007.496	30.82780	0.99994689
37 27	8359157.828	30.82790	0.99994744
37 28	8357308.154	30.82801	0.99994807
37 29	8355458.473	30.82812	0.99994878
37 30	8353608.786	30.82823	0.99994958
37 31	8351759.092	30.82835	0.99995046
37 32	8349909.391	30.82847	0.99995142
37 33	8348059.683	30.82859	0.99995247
37 34	8346209.968	30.82871	0.99995361
37 35	8344360.245	30.82884	0.99995483
37 36	8342510.514	30.82897	0.99995613
37 37	8340660.776	30.82910	0.99995752
37 38	8338811.030	30.82923	0.99995900
37 39	8336961.276	30.82937	0.99996055

Lambert conformal conic projection tables
KENTUCKY SOUTH

Lat	R (meters)	tab diff.	k
37° 40'	8335111.514	30.82951	0.99996220
37 41	8333261.743	30.82965	0.99996392
37 42	8331411.964	30.82980	0.99996573
37 43	8329562.177	30.82994	0.99996763
37 44	8327712.380	30.83009	0.99996961
37 45	8325862.574	30.83025	0.99997168
37 46	8324012.760	30.83040	0.99997383
37 47	8322162.936	30.83056	0.99997606
37 48	8320313.102	30.83072	0.99997838
37 49	8318463.259	30.83088	0.99998079
37 50	8316613.406	30.83105	0.99998328
37 51	8314763.543	30.83122	0.99998585
37 52	8312913.670	30.83139	0.99998851
37 53	8311063.787	30.83156	0.99999126
37 54	8309213.894	30.83174	0.99999409
37 55	8307363.990	30.83191	0.99999700
37 56	8305514.075	30.83210	1.0000000
37 57	8303664.149	30.83228	1.00000308
37 58	8301814.212	30.83247	1.00000625
37 59	8299964.264	30.83266	1.00000951
38 0	8298114.305	30.83285	1.00001285
38 1	8296264.334	30.83304	1.00001627
38 2	8294414.352	30.83324	1.00001978
38 3	8292564.357	30.83344	1.00002337
38 4	8290714.351	30.83364	1.00002705
38 5	8288864.333	30.83385	1.00003082
38 6	8287014.302	30.83405	1.00003467
38 7	8285164.259	30.83426	1.00003860
38 8	8283314.203	30.83448	1.00004262
38 9	8281464.134	30.83469	1.00004673
38 10	8279614.053	30.83491	1.00005092
38 11	8277763.958	30.83513	1.00005520
38 12	8275913.850	30.83536	1.00005956
38 13	8274063.729	30.83558	1.00006400
38 14	8272213.594	30.83581	1.00006853
38 15	8270363.445	30.83604	1.00007315
38 16	8268513.283	30.83628	1.00007785
38 17	8266663.106	30.83651	1.00008264
38 18	8264812.915	30.83675	1.00008752
38 19	8262962.710	30.83699	1.00009247

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is LOUISIANA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 30° 30' (latitude of grid origin)
λ_{CM} = 92 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 31 10 (southern standard parallel)
ϕ_n = 32 40 (northern standard parallel)
E. =1000000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.528700659421 = $\sin(\phi.)$
K = 13961752.4737 m (mapping radius at the equator)
R_b = 10405759.0459 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	31 55 0.00000 93 0 0.00000	10248686.343 m -0 15 51.66119	-0.0046137673 0.9999893565	952714.946 m 157181.785 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	1050000.000 m 160000.000 m	50000.000 m 10245759.046 m	10245881.0468 m 0 16 46.57827	31 56 31.0842 91 58 16.1282

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
LOUISIANA NORTH

Lat	R (meters)	tab diff.	k
30° 40'	10387278.597	30.80008	1.00015091
30 41	10385430.592	30.79997	1.00014467
30 42	10383582.594	30.79986	1.00013852
30 43	10381734.602	30.79975	1.00013244
30 44	10379886.617	30.79965	1.00012646
30 45	10378038.639	30.79954	1.00012055
30 46	10376190.666	30.79945	1.00011473
30 47	10374342.699	30.79935	1.00010899
30 48	10372494.738	30.79926	1.00010333
30 49	10370646.783	30.79917	1.00009776
30 50	10368798.833	30.79908	1.00009227
30 51	10366950.888	30.79899	1.00008687
30 52	10365102.949	30.79891	1.00008155
30 53	10363255.014	30.79883	1.00007631
30 54	10361407.085	30.79875	1.00007115
30 55	10359559.160	30.79867	1.00006608
30 56	10357711.239	30.79860	1.00006109
30 57	10355863.323	30.79853	1.00005618
30 58	10354015.412	30.79846	1.00005136
30 59	10352167.504	30.79840	1.00004662
31 0	10350319.600	30.79834	1.00004197
31 1	10348471.700	30.79828	1.00003739
31 2	10346623.803	30.79822	1.00003291
31 3	10344775.910	30.79816	1.00002850
31 4	10342928.021	30.79811	1.00002418
31 5	10341080.134	30.79806	1.00001994
31 6	10339232.250	30.79801	1.00001578
31 7	10337384.369	30.79797	1.00001171
31 8	10335536.491	30.79793	1.00000773
31 9	10333688.615	30.79789	1.00000382
31 10	10331840.742	30.79785	1.00000000
31 11	10329992.871	30.79782	0.99999626
31 12	10328145.002	30.79779	0.99999261
31 13	10326297.135	30.79776	0.99998904
31 14	10324449.269	30.79773	0.99998555
31 15	10322601.405	30.79771	0.99998215
31 16	10320753.543	30.79769	0.99997883
31 17	10318905.681	30.79767	0.99997559
31 18	10317057.821	30.79765	0.99997244
31 19	10315209.962	30.79764	0.99996937

Lambert conformal conic projection tables
LOUISIANA NORTH

Lat	R (meters)	tab diff.	k
31° 20'	10313362.104	30.79763	0.99996639
31 21	10311514.246	30.79762	0.99996349
31 22	10309666.389	30.79762	0.99996067
31 23	10307818.532	30.79761	0.99995794
31 24	10305970.675	30.79761	0.99995529
31 25	10304122.818	30.79762	0.99995272
31 26	10302274.961	30.79762	0.99995024
31 27	10300427.104	30.79763	0.99994784
31 28	10298579.246	30.79764	0.99994552
31 29	10296731.388	30.79765	0.99994329
31 30	10294883.529	30.79767	0.99994114
31 31	10293035.669	30.79769	0.99993908
31 32	10291187.807	30.79771	0.99993710
31 33	10289339.945	30.79773	0.99993521
31 34	10287492.081	30.79775	0.99993339
31 35	10285644.216	30.79778	0.99993167
31 36	10283796.349	30.79781	0.99993002
31 37	10281948.480	30.79785	0.99992846
31 38	10280100.609	30.79788	0.99992698
31 39	10278252.736	30.79792	0.99992559
31 40	10276404.861	30.79796	0.99992428
31 41	10274556.983	30.79801	0.99992306
31 42	10272709.102	30.79806	0.99992192
31 43	10270861.219	30.79811	0.99992086
31 44	10269013.333	30.79816	0.99991989
31 45	10267165.443	30.79821	0.99991900
31 46	10265317.551	30.79827	0.99991820
31 47	10263469.654	30.79833	0.99991748
31 48	10261621.755	30.79839	0.99991684
31 49	10259773.851	30.79846	0.99991629
31 50	10257925.944	30.79852	0.99991582
31 51	10256078.032	30.79859	0.99991544
31 52	10254230.117	30.79867	0.99991514
31 53	10252382.197	30.79874	0.99991492
31 54	10250534.272	30.79882	0.99991479
31 55	10248686.343	30.79890	0.99991474
31 56	10246838.409	30.79898	0.99991478
31 57	10244990.470	30.79907	0.99991490
31 58	10243142.526	30.79916	0.99991510
31 59	10241294.576	30.79925	0.99991539

Lambert conformal conic projection tables
LOUISIANA NORTH

Lat	R (meters)	tab diff.	k
32° 0'	10239446.621	30.79934	0.99991577
32 1	10237598.660	30.79944	0.99991623
32 2	10235750.694	30.79954	0.99991677
32 3	10233902.722	30.79964	0.99991739
32 4	10232054.743	30.79975	0.99991811
32 5	10230206.758	30.79985	0.99991890
32 6	10228358.767	30.79996	0.99991978
32 7	10226510.769	30.80007	0.99992074
32 8	10224662.765	30.80019	0.99992179
32 9	10222814.754	30.80031	0.99992293
32 10	10220966.735	30.80043	0.99992414
32 11	10219118.710	30.80055	0.99992545
32 12	10217270.677	30.80067	0.99992683
32 13	10215422.636	30.80080	0.99992830
32 14	10213574.588	30.80093	0.99992986
32 15	10211726.532	30.80107	0.99993150
32 16	10209878.468	30.80120	0.99993322
32 17	10208030.396	30.80134	0.99993503
32 18	10206182.315	30.80148	0.99993692
32 19	10204334.227	30.80163	0.99993890
32 20	10202486.129	30.80177	0.99994096
32 21	10200638.023	30.80192	0.99994311
32 22	10198789.907	30.80207	0.99994534
32 23	10196941.783	30.80223	0.99994766
32 24	10195093.650	30.80238	0.99995006
32 25	10193245.507	30.80254	0.99995254
32 26	10191397.354	30.80270	0.99995511
32 27	10189549.192	30.80287	0.99995777
32 28	10187701.020	30.80304	0.99996051
32 29	10185852.837	30.80321	0.99996333
32 30	10184004.645	30.80338	0.99996624
32 31	10182156.442	30.80355	0.99996924
32 32	10180308.229	30.80373	0.99997232
32 33	10178460.005	30.80391	0.99997548
32 34	10176611.770	30.80410	0.99997873
32 35	10174763.524	30.80428	0.99998206
32 36	10172915.268	30.80447	0.99998548
32 37	10171066.999	30.80466	0.99998898
32 38	10169218.720	30.80486	0.99999257
32 39	10167370.428	30.80505	0.99999624

Lambert conformal conic projection tables
LOUISIANA NORTH

Lat	R (meters)	tab diff.	k
32° 40'	10165522.125	30.80525	1.00000000
32 41	10163673.810	30.80545	1.00000384
32 42	10161825.483	30.80566	1.00000777
32 43	10159977.144	30.80586	1.00001178
32 44	10158128.792	30.80607	1.00001588
32 45	10156280.427	30.80629	1.00002006
32 46	10154432.050	30.80650	1.00002433
32 47	10152583.660	30.80672	1.00002868
32 48	10150735.257	30.80694	1.00003312
32 49	10148886.841	30.80716	1.00003764
32 50	10147038.411	30.80739	1.00004225
32 51	10145189.968	30.80761	1.00004694
32 52	10143341.511	30.80784	1.00005172
32 53	10141493.041	30.80808	1.00005659
32 54	10139644.556	30.80831	1.00006153
32 55	10137796.057	30.80855	1.00006657
32 56	10135947.544	30.80879	1.00007169
32 57	10134099.017	30.80904	1.00007689
32 58	10132250.474	30.80928	1.00008218
32 59	10130401.917	30.80953	1.00008755
33 0	10128553.345	30.80979	1.00009301
33 1	10126704.758	30.81004	1.00009856
33 2	10124856.156	30.81030	1.00010419
33 3	10123007.538	30.81056	1.00010991
33 4	10121158.904	30.81082	1.00011571
33 5	10119310.255	30.81108	1.00012159
33 6	10117461.590	30.81135	1.00012757
33 7	10115612.909	30.81162	1.00013362
33 8	10113764.212	30.81190	1.00013977
33 9	10111915.498	30.81217	1.00014600
33 10	10110066.768	30.81245	1.00015231
33 11	10108218.020	30.81273	1.00015871
33 12	10106369.257	30.81302	1.00016519
33 13	10104520.476	30.81330	1.00017176
33 14	10102671.678	30.81359	1.00017842
33 15	10100822.862	30.81388	1.00018516
33 16	10098974.029	30.81418	1.00019199
33 17	10097125.179	30.81447	1.00019890
33 18	10095276.310	30.81477	1.00020590
33 19	10093427.424	30.81508	1.00021298

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is LOUISIANA OFFSHORE

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

φ_b = 25°30' (latitude of grid origin)
λ_b = 91°20' (longitude of origin and Central Meridian, CM)
φ_s = 26°10' (southern standard parallel)
φ_n = 27°50' (northern standard parallel)
E0 =1000000.0000 m (easting coordinate of origin)
Nb = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.454006848165 = $\sin(\varphi_\circ)$
K = 15621596.5270 (mapping radius at the equator)
R_b = 12690863.7281 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (φ,λ)

$\gamma = (\lambda_{CM} - \lambda) \sin(\varphi_\circ)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E_\circ$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	27° 0'0.00000" 91°50'0.00000"	12524674.541 m -0°13'37.2123"	-0.0039619468 0.9999921515	950377.906 m 166287.488 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_\circ)/((R_b -(N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
φ from table using R

Station	E N	E - $E_\circ$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	1050000.000 m 170000.000 m	50000.000 m 12520863.728 m	12520963.5610 m 0°13'43.6800"	27° 2' 0.58192" 90°49'45.75416"

Lambert conformal conic projection tables
LOUISIANA OFFSHORE

Lat	R	tab diff.	k
25°30'	12690863.728	30.77947	1.00023467
25°31'	12689016.960	30.77931	1.00022718
25°32'	12687170.201	30.77915	1.00021977
25°33'	12685323.452	30.77900	1.00021244
25°34'	12683476.712	30.77885	1.00020520
25°35'	12681629.981	30.77870	1.00019804
25°36'	12679783.259	30.77855	1.00019097
25°37'	12677936.546	30.77841	1.00018398
25°38'	12676089.841	30.77827	1.00017707
25°39'	12674243.145	30.77813	1.00017024
25°40'	12672396.457	30.77799	1.00016350
25°41'	12670549.778	30.77786	1.00015684
25°42'	12668703.106	30.77773	1.00015027
25°43'	12666856.442	30.77760	1.00014377
25°44'	12665009.786	30.77748	1.00013737
25°45'	12663163.137	30.77735	1.00013104
25°46'	12661316.496	30.77723	1.00012480
25°47'	12659469.862	30.77712	1.00011864
25°48'	12657623.235	30.77700	1.00011256
25°49'	12655776.615	30.77689	1.00010657
25°50'	12653930.002	30.77678	1.00010066
25°51'	12652083.395	30.77667	1.00009484
25°52'	12650236.795	30.77657	1.00008909
25°53'	12648390.201	30.77646	1.00008343
25°54'	12646543.613	30.77636	1.00007786
25°55'	12644697.031	30.77627	1.00007237
25°56'	12642850.455	30.77617	1.00006696
25°57'	12641003.885	30.77608	1.00006163
25°58'	12639157.320	30.77599	1.00005639
25°59'	12637310.761	30.77591	1.00005123
26° 0'	12635464.206	30.77582	1.00004616
26° 1'	12633617.657	30.77574	1.00004117
26° 2'	12631771.113	30.77566	1.00003626
26° 3'	12629924.573	30.77558	1.00003143
26° 4'	12628078.038	30.77551	1.00002669
26° 5'	12626231.507	30.77544	1.00002203
26° 6'	12624384.981	30.77537	1.00001746

26° 7'	12622538.459	30.77531	1.00001297
26° 8'	12620691.940	30.77524	1.00000856
26° 9'	12618845.426	30.77518	1.00000424

Lambert conformal conic projection tables
LOUISIANA OFFSHORE

Lat	R	tab diff.	k
26°10'	12616998.915	30.77512	1.00000000
26°11'	12615152.407	30.77507	0.99999584
26°12'	12613305.903	30.77502	0.99999177
26°13'	12611459.402	30.77497	0.99998778
26°14'	12609612.904	30.77492	0.99998388
26°15'	12607766.409	30.77487	0.99998005
26°16'	12605919.916	30.77483	0.99997632
26°17'	12604073.426	30.77479	0.99997266
26°18'	12602226.939	30.77475	0.99996909
26°19'	12600380.454	30.77472	0.99996560
26°20'	12598533.970	30.77469	0.99996220
26°21'	12596687.489	30.77466	0.99995888
26°22'	12594841.010	30.77463	0.99995564
26°23'	12592994.532	30.77461	0.99995249
26°24'	12591148.055	30.77459	0.99994942
26°25'	12589301.580	30.77457	0.99994644
26°26'	12587455.106	30.77455	0.99994354
26°27'	12585608.633	30.77454	0.99994072
26°28'	12583762.160	30.77453	0.99993798
26°29'	12581915.689	30.77452	0.99993533
26°30'	12580069.218	30.77451	0.99993277
26°31'	12578222.747	30.77451	0.99993029
26°32'	12576376.276	30.77451	0.99992789
26°33'	12574529.806	30.77451	0.99992557
26°34'	12572683.335	30.77452	0.99992334
26°35'	12570836.864	30.77452	0.99992119
26°36'	12568990.393	30.77453	0.99991913
26°37'	12567143.921	30.77455	0.99991715
26°38'	12565297.448	30.77456	0.99991525
26°39'	12563450.974	30.77458	0.99991344
26°40'	12561604.500	30.77460	0.99991171
26°41'	12559758.024	30.77462	0.99991007
26°42'	12557911.546	30.77465	0.99990851
26°43'	12556065.068	30.77468	0.99990703
26°44'	12554218.587	30.77471	0.99990564
26°45'	12552372.105	30.77474	0.99990433
26°46'	12550525.620	30.77478	0.99990311

26°47'	12548679.134	30.77481	0.99990197
26°48'	12546832.645	30.77486	0.99990091
26°49'	12544986.154	30.77490	0.99989994

Lambert conformal conic projection tables
LOUISIANA OFFSHORE

Lat	R	tab diff.	k
26°50'	12543139.660	30.77495	0.99989905
26°51'	12541293.163	30.77499	0.99989825
26°52'	12539446.663	30.77505	0.99989753
26°53'	12537600.161	30.77510	0.99989689
26°54'	12535753.654	30.77516	0.99989634
26°55'	12533907.145	30.77522	0.99989587
26°56'	12532060.632	30.77528	0.99989549
26°57'	12530214.115	30.77534	0.99989519
26°58'	12528367.595	30.77541	0.99989497
26°59'	12526521.070	30.77548	0.99989484
27° 0'	12524674.541	30.77555	0.99989479
27° 1'	12522828.008	30.77563	0.99989483
27° 2'	12520981.470	30.77571	0.99989495
27° 3'	12519134.928	30.77579	0.99989516
27° 4'	12517288.380	30.77587	0.99989545
27° 5'	12515441.828	30.77596	0.99989582
27° 6'	12513595.271	30.77605	0.99989628
27° 7'	12511748.708	30.77614	0.99989682
27° 8'	12509902.140	30.77623	0.99989745
27° 9'	12508055.566	30.77633	0.99989816
27°10'	12506208.986	30.77643	0.99989895
27°11'	12504362.401	30.77653	0.99989983
27°12'	12502515.809	30.77663	0.99990079
27°13'	12500669.211	30.77674	0.99990184
27°14'	12498822.607	30.77685	0.99990297
27°15'	12496975.996	30.77696	0.99990419
27°16'	12495129.379	30.77707	0.99990549
27°17'	12493282.754	30.77719	0.99990688
27°18'	12491436.123	30.77731	0.99990834
27°19'	12489589.484	30.77743	0.99990990
27°20'	12487742.838	30.77756	0.99991154
27°21'	12485896.185	30.77769	0.99991326
27°22'	12484049.523	30.77782	0.99991507
27°23'	12482202.854	30.77795	0.99991696
27°24'	12480356.177	30.77809	0.99991893
27°25'	12478509.492	30.77822	0.99992099
27°26'	12476662.799	30.77836	0.99992314

27°27'	12474816.097	30.77851	0.99992537
27°28'	12472969.386	30.77865	0.99992768
27°29'	12471122.667	30.77880	0.99993008

Lambert conformal conic projection tables
LOUISIANA OFFSHORE

Lat	R	tab diff.	k
27°30'	12469275.939	30.77895	0.99993256
27°31'	12467429.202	30.77911	0.99993513
27°32'	12465582.455	30.77927	0.99993778
27°33'	12463735.699	30.77943	0.99994052
27°34'	12461888.934	30.77959	0.99994334
27°35'	12460042.158	30.77975	0.99994625
27°36'	12458195.373	30.77992	0.99994924
27°37'	12456348.578	30.78009	0.99995231
27°38'	12454501.773	30.78026	0.99995547
27°39'	12452654.957	30.78044	0.99995872
27°40'	12450808.131	30.78061	0.99996205
27°41'	12448961.294	30.78080	0.99996546
27°42'	12447114.446	30.78098	0.99996896
27°43'	12445267.588	30.78116	0.99997254
27°44'	12443420.718	30.78135	0.99997621
27°45'	12441573.837	30.78154	0.99997996
27°46'	12439726.944	30.78174	0.99998380
27°47'	12437880.040	30.78193	0.99998772
27°48'	12436033.124	30.78213	0.99999173
27°49'	12434186.196	30.78233	0.99999582
27°50'	12432339.256	30.78254	1.0000000
27°51'	12430492.304	30.78275	1.00000426
27°52'	12428645.339	30.78295	1.00000861
27°53'	12426798.362	30.78317	1.00001304
27°54'	12424951.372	30.78338	1.00001756
27°55'	12423104.369	30.78360	1.00002216
27°56'	12421257.353	30.78382	1.00002684
27°57'	12419410.324	30.78404	1.00003161
27°58'	12417563.281	30.78427	1.00003647
27°59'	12415716.225	30.78450	1.00004141
28° 0'	12413869.155	30.78473	1.00004644
28° 1'	12412022.072	30.78496	1.00005155
28° 2'	12410174.974	30.78520	1.00005674
28° 3'	12408327.862	30.78543	1.00006203
28° 4'	12406480.736	30.78568	1.00006739
28° 5'	12404633.596	30.78592	1.00007284
28° 6'	12402786.441	30.78617	1.00007838

28° 7'	12400939.271	30.78641	1.00008400
28° 8'	12399092.086	30.78667	1.00008971
28° 9'	12397244.886	30.78692	1.00009550

Lambert conformal conic projection tables
LOUISIANA OFFSHORE

Lat	R	tab diff.	k
28°10'	12395397.671	30.78718	1.00010137
28°11'	12393550.440	30.78744	1.00010734
28°12'	12391703.194	30.78770	1.00011338
28°13'	12389855.932	30.78797	1.00011952
28°14'	12388008.654	30.78823	1.00012573
28°15'	12386161.360	30.78850	1.00013204
28°16'	12384314.049	30.78878	1.00013842
28°17'	12382466.723	30.78905	1.00014490
28°18'	12380619.379	30.78933	1.00015145
28°19'	12378772.020	30.78961	1.00015810
28°20'	12376924.643	30.78990	1.00016483
28°21'	12375077.249	30.79018	1.00017164
28°22'	12373229.838	30.79047	1.00017854
28°23'	12371382.410	30.79076	1.00018553
28°24'	12369534.964	30.79106	1.00019260
28°25'	12367687.501	30.79135	1.00019975
28°26'	12365840.019	30.79165	1.00020699
28°27'	12363992.520	30.79196	1.00021432
28°28'	12362145.003	30.79226	1.00022173
28°29'	12360297.467	30.79257	1.00022923
28°30'	12358449.913	30.79288	1.00023681
28°31'	12356602.340	30.79319	1.00024448
28°32'	12354754.749	30.79351	1.00025223
28°33'	12352907.138	30.79383	1.00026007
28°34'	12351059.508	30.79415	1.00026800
28°35'	12349211.860	30.79447	1.00027601
28°36'	12347364.191	30.79480	1.00028410
28°37'	12345516.504	30.79513	1.00029228
28°38'	12343668.796	30.79546	1.00030055
28°39'	12341821.068	30.79579	1.00030890
28°40'	12339973.321	30.79613	1.00031734
28°41'	12338125.553	30.79647	1.00032586
28°42'	12336277.765	30.79681	1.00033447
28°43'	12334429.956	30.79716	1.00034317
28°44'	12332582.127	30.79750	1.00035195
28°45'	12330734.277	30.79785	1.00036082

Lambert conformal conic projection with two standard parallels

Plane coordinate projection tables

DATUM: NAD 83

The projection is LOUISIANA SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

φ_b = 28°30' (latitude of grid origin)
λ_{CM} = 91 20 (longitude of origin and Central Meridian, CM)
φ_s = 29 18 (southern standard parallel)
φ_n = 30 42 (northern standard parallel)
$E_\circ$ =1000000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$l = 0.500012689631 = \sin(\varphi_\circ)$
K = 14525497.0845 m (mapping radius at the equator)
R_b = 11221678.1079 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (φ, λ)

$\gamma = (\lambda_{CM} - \lambda) \sin(\varphi_\circ)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E_\circ$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	30 0 0.00000 91 50 0.00000	11055411.695 m -0 15 0.02284	-0.0043634200 0.9999904802	951760.595 m 166371.658 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_\circ)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/l$
φ from table using R

Station	E N	$E - E_\circ$ $R_b-(N - N_b)$	R γ	Latitude Longitude

sample 2	1050000.000 m 50000.000 m11051791.2124 m 30 1 57.5858 170000.000 m11051678.108 m 0 15 33.17683 90 48 53.6937

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
LOUISIANA SOUTH (meters)

Lat	R (meters)	tab diff.	k
28°40'	11203202.388	30.79211	1.00019431
28 41	11201354.861	30.79198	1.00018766
28 42	11199507.342	30.79185	1.00018109
28 43	11197659.831	30.79173	1.00017460
28 44	11195812.327	30.79161	1.00016819
28 45	11193964.830	30.79149	1.00016187
28 46	11192117.341	30.79138	1.00015563
28 47	11190269.858	30.79127	1.00014948
28 48	11188422.382	30.79116	1.00014340
28 49	11186574.912	30.79105	1.00013741
28 50	11184727.449	30.79095	1.00013151
28 51	11182879.992	30.79085	1.00012569
28 52	11181032.542	30.79075	1.00011995
28 53	11179185.097	30.79065	1.00011429
28 54	11177337.658	30.79056	1.00010872
28 55	11175490.225	30.79046	1.00010323
28 56	11173642.797	30.79037	1.00009782
28 57	11171795.374	30.79029	1.00009250
28 58	11169947.957	30.79020	1.00008726
28 59	11168100.545	30.79012	1.00008211
29 0	11166253.137	30.79005	1.00007703
29 1	11164405.735	30.78997	1.00007204
29 2	11162558.336	30.78990	1.00006714
29 3	11160710.943	30.78983	1.00006232
29 4	11158863.553	30.78976	1.00005758
29 5	11157016.168	30.78969	1.00005292
29 6	11155168.786	30.78963	1.00004835
29 7	11153321.409	30.78957	1.00004386
29 8	11151474.034	30.78951	1.00003946
29 9	11149626.664	30.78946	1.00003513
29 10	11147779.296	30.78940	1.00003090
29 11	11145931.932	30.78935	1.00002674
29 12	11144084.571	30.78931	1.00002267
29 13	11142237.213	30.78926	1.00001868
29 14	11140389.857	30.78922	1.00001478
29 15	11138542.504	30.78918	1.00001096
29 16	11136695.153	30.78914	1.00000722
29 17	11134847.805	30.78911	1.00000357
29 18	11133000.458	30.78908	1.00000000
29 19	11131153.114	30.78905	0.99999651

Lambert conformal conic projection tables
LOUISIANA SOUTH

Lat	R (meters)	tab diff.	k
29°20'	11129305.771	30.78902	0.99999311
29 21	11127458.429	30.78900	0.99998979
29 22	11125611.090	30.78898	0.99998656
29 23	11123763.751	30.78896	0.99998341
29 24	11121916.414	30.78894	0.99998034
29 25	11120069.077	30.78893	0.99997736
29 26	11118221.742	30.78892	0.99997445
29 27	11116374.407	30.78891	0.99997164
29 28	11114527.072	30.78890	0.99996891
29 29	11112679.738	30.78890	0.99996626
29 30	11110832.404	30.78890	0.99996369
29 31	11108985.070	30.78890	0.99996121
29 32	11107137.736	30.78891	0.99995881
29 33	11105290.402	30.78891	0.99995650
29 34	11103443.067	30.78892	0.99995427
29 35	11101595.732	30.78894	0.99995212
29 36	11099748.395	30.78895	0.99995006
29 37	11097901.058	30.78897	0.99994808
29 38	11096053.720	30.78899	0.99994619
29 39	11094206.381	30.78901	0.99994437
29 40	11092359.040	30.78904	0.99994265
29 41	11090511.698	30.78907	0.99994100
29 42	11088664.354	30.78910	0.99993944
29 43	11086817.008	30.78913	0.99993797
29 44	11084969.661	30.78917	0.99993658
29 45	11083122.311	30.78920	0.99993527
29 46	11081274.958	30.78925	0.99993405
29 47	11079427.604	30.78929	0.99993291
29 48	11077580.246	30.78934	0.99993185
29 49	11075732.886	30.78939	0.99993088
29 50	11073885.523	30.78944	0.99992999
29 51	11072038.157	30.78949	0.99992919
29 52	11070190.787	30.78955	0.99992847
29 53	11068343.414	30.78961	0.99992784
29 54	11066496.038	30.78967	0.99992728
29 55	11064648.658	30.78973	0.99992682
29 56	11062801.274	30.78980	0.99992643
29 57	11060953.886	30.78987	0.99992614
29 58	11059106.493	30.78994	0.99992592

29 59	11057259.097	30.79002	0.99992579

Lambert conformal conic projection tables
LOUISIANA SOUTH

Lat	R (meters)	tab diff.	k
30° 0'	11055411.695	30.79010	0.99992574
30 1	11053564.289	30.79018	0.99992578
30 2	11051716.879	30.79026	0.99992590
30 3	11049869.463	30.79035	0.99992611
30 4	11048022.042	30.79044	0.99992640
30 5	11046174.616	30.79053	0.99992678
30 6	11044327.184	30.79062	0.99992724
30 7	11042479.747	30.79072	0.99992778
30 8	11040632.304	30.79082	0.99992841
30 9	11038784.855	30.79092	0.99992912
30 10	11036937.400	30.79102	0.99992991
30 11	11035089.939	30.79113	0.99993079
30 12	11033242.471	30.79124	0.99993176
30 13	11031394.997	30.79135	0.99993281
30 14	11029547.516	30.79146	0.99993394
30 15	11027700.028	30.79158	0.99993516
30 16	11025852.533	30.79170	0.99993646
30 17	11024005.031	30.79182	0.99993785
30 18	11022157.522	30.79195	0.99993932
30 19	11020310.005	30.79208	0.99994088
30 20	11018462.481	30.79221	0.99994252
30 21	11016614.948	30.79234	0.99994424
30 22	11014767.408	30.79247	0.99994605
30 23	11012919.859	30.79261	0.99994794
30 24	11011072.303	30.79275	0.99994992
30 25	11009224.737	30.79290	0.99995198
30 26	11007377.163	30.79304	0.99995413
30 27	11005529.581	30.79319	0.99995636
30 28	11003681.989	30.79334	0.99995868
30 29	11001834.389	30.79350	0.99996108
30 30	10999986.779	30.79365	0.99996357
30 31	10998139.160	30.79381	0.99996614
30 32	10996291.531	30.79398	0.99996879
30 33	10994443.892	30.79414	0.99997153
30 34	10992596.244	30.79431	0.99997436
30 35	10990748.585	30.79448	0.99997726
30 36	10988900.917	30.79465	0.99998026
30 37	10987053.238	30.79482	0.99998334

30 38	10985205.548	30.79500	0.99998650
30 39	10983357.848	30.79518	0.99998975

Lambert conformal conic projection tables
LOUISIANA SOUTH

Lat	R (meters)	tab diff.	k
30°40'	10981510.137	30.79537	0.99999308
30 41	10979662.415	30.79555	0.99999650
30 42	10977814.682	30.79574	1.0000000
30 43	10975966.938	30.79593	1.00000359
30 44	10974119.182	30.79612	1.00000726
30 45	10972271.414	30.79632	1.00001102
30 46	10970423.635	30.79652	1.00001486
30 47	10968575.844	30.79672	1.00001878
30 48	10966728.041	30.79692	1.00002280
30 49	10964880.225	30.79713	1.00002689
30 50	10963032.397	30.79734	1.00003107
30 51	10961184.557	30.79755	1.00003534
30 52	10959336.704	30.79777	1.00003969
30 53	10957488.838	30.79799	1.00004413
30 54	10955640.959	30.79821	1.00004865
30 55	10953793.066	30.79843	1.00005326
30 56	10951945.161	30.79865	1.00005795
30 57	10950097.241	30.79888	1.00006272
30 58	10948249.309	30.79911	1.00006758
30 59	10946401.362	30.79934	1.00007253
31 0	10944553.401	30.79958	1.00007756
31 1	10942705.426	30.79982	1.00008268
31 2	10940857.437	30.80006	1.00008788
31 3	10939009.434	30.80030	1.00009317
31 4	10937161.415	30.80055	1.00009854
31 5	10935313.382	30.80080	1.00010400
31 6	10933465.334	30.80105	1.00010954
31 7	10931617.271	30.80131	1.00011517
31 8	10929769.193	30.80156	1.00012088
31 9	10927921.099	30.80182	1.00012668
31 10	10926072.990	30.80208	1.00013256
31 11	10924224.865	30.80235	1.00013853
31 12	10922376.724	30.80262	1.00014459
31 13	10920528.567	30.80289	1.00015073
31 14	10918680.393	30.80316	1.00015695
31 15	10916832.204	30.80344	1.00016326
31 16	10914983.998	30.80371	1.00016966

31	17	10913135.775	30.80400	1.00017614
31	18	10911287.535	30.80428	1.00018271
31	19	10909439.278	30.80457	1.00018936

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MAINE EAST
ZONE CODE: 1801

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Projection defining constants

$\phi_b = 43°40'$ (latitude of grid origin)
$\lambda_b = 68°30'$ (longitude of origin and Central Meridian, CM)
$E_0 = 300000$ m (easting coordinate of grid origin)
$N_b = 0$ m (northing coordinate of grid origin)
$k_0 = 0.999900$ (scale along Central Meridian)
latitude range from $\phi_{min} = 43°40'$ to $\phi_{max} = 47°40'$

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 44°20'30".45000
LONGITUDE: 69°45'30".10000

$p = 10^{-4}\Delta\lambda$ = -0.45301000
TABULAR (I) = 74067.4209
30.45000 sec = 939.7868
SECOND DIFF = -0.0007
(I) = 75007.2071
TABULAR (II) = 3752.6117
30.45000 sec = 0.0273
(II) = 3752.6390
TABULAR (III) = 1.5330
$N = (I) + (II)p^2 + (III)p^4$ = 75777.381 m

TABULAR (IV) = 221521.6939
30.45000 sec = -31.8450
SECOND DIFF = 0.0024
(IV) = 221489.8513
TABULAR (V) = 2.1724
30.45000 sec = -0.0260
(V) = 2.1463
TABULAR (VI) = -0.0305
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -100337.316 m
$E = E_0 + E'$ = 199662.684 m

TABULAR (XII) = 6988.3154
30.45000 sec = 1.0558
(XII) = 6989.3712
TABULAR (XIII) = 2.8304
$C = (XII)p + (XIII)p^3$ = -3166".52

$q = 10^{-6} E'$ = -0.10033732
TABULAR (XVI) = 0.012295
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00002378

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.10033732$
$\phi' = 44°20'55''.40436$

TABULAR	(VII) =	2477.7625
55.40436 sec	=	1.3229
	(VII) =	2479.0854
TABULAR	(VIII) =	39.6574
55.40436 sec	=	0.0366
	(VIII) =	39.6940

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 44°20'30''.45000$

TABULAR	(IX) =	45142.3056
55.40436 sec	=	11.8111
SECOND DIFF	=	-0.0004
	(IX) =	45154.1162
TABULAR	(X) =	536.9994
55.40436 sec	=	0.5178
	(X) =	537.5172
TABULAR	(XI) =	12.1184
55.40436 sec	=	0.0203
	(XI) =	12.1387

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 69°45'30''.09975$

TABULAR	(XIV) =	31546.8669
55.40436 sec	=	16.9284
SECOND DIFF	=	-0.0004
	(XIV) =	31563.7950
TABULAR	(XV) =	502.7824
55.40436 sec	=	0.5340
	(XV) =	503.3164

$C = (XIV)q - (XV)q^3 = -3166''.52$

TABULAR (XVI) = 0.012295

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00002377$

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°40'	0.0000	30.859663	3749.4169	0.001744	1.584
	224016.1219	-1.033170	4.2448	-0.000872	-0.030
43°41'	1851.5798	30.859754	3749.5215	0.001723	1.582
	223954.1317	-1.033488	4.1925	-0.000872	-0.030
43°42'	3703.1650	30.859844	3749.6249	0.001701	1.581
	223892.1224	-1.033805	4.1402	-0.000871	-0.030
43°43'	5554.7556	30.859934	3749.7270	0.001680	1.580
	223830.0941	-1.034123	4.0879	-0.000871	-0.030
43°44'	7406.3517	30.860025	3749.8278	0.001659	1.579
	223768.0467	-1.034441	4.0356	-0.000871	-0.030
43°45'	9257.9532	30.860115	3749.9273	0.001638	1.577
	223705.9803	-1.034758	3.9834	-0.000870	-0.030
43°46'	11109.5601	30.860205	3750.0256	0.001617	1.576
	223643.8948	-1.035075	3.9312	-0.000870	-0.030
43°47'	12961.1724	30.860296	3750.1226	0.001596	1.575
	223581.7903	-1.035392	3.8790	-0.000869	-0.030
43°48'	14812.7901	30.860386	3750.2183	0.001574	1.574
	223519.6667	-1.035710	3.8268	-0.000869	-0.030
43°49'	16664.4133	30.860476	3750.3128	0.001553	1.572
	223457.5242	-1.036027	3.7747	-0.000868	-0.030
43°50'	18516.0419	30.860567	3750.4060	0.001532	1.571
	223395.3626	-1.036344	3.7226	-0.000868	-0.030
43°51'	20367.6759	30.860657	3750.4979	0.001511	1.570
	223333.1819	-1.036661	3.6706	-0.000867	-0.030
43°52'	22219.3153	30.860747	3750.5886	0.001490	1.568
	223270.9823	-1.036977	3.6185	-0.000867	-0.030
43°53'	24070.9601	30.860838	3750.6780	0.001469	1.567
	223208.7637	-1.037294	3.5665	-0.000867	-0.030
43°54'	25922.6104	30.860928	3750.7661	0.001448	1.566
	223146.5260	-1.037611	3.5145	-0.000866	-0.030
43°55'	27774.2661	30.861019	3750.8530	0.001426	1.565
	223084.2694	-1.037927	3.4625	-0.000866	-0.030
43°56'	29625.9272	30.861109	3750.9386	0.001405	1.563
	223021.9937	-1.038244	3.4106	-0.000865	-0.030
43°57'	31477.5937	30.861199	3751.0229	0.001384	1.562
	222959.6991	-1.038560	3.3587	-0.000865	-0.030
43°58'	33329.2657	30.861290	3751.1059	0.001363	1.561
	222897.3855	-1.038876	3.3068	-0.000864	-0.030
43°59'	35180.9431	30.861380	3751.1877	0.001342	1.560
	222835.0529	-1.039193	3.2550	-0.000864	-0.030
44° 0'	37032.6259	30.861470	3751.2682	0.001321	1.558
	222772.7013	-1.039509	3.2031	-0.000863	-0.030
44° 1'	38884.3141	30.861561	3751.3474	0.001299	1.557
	222710.3308	-1.039825	3.1513	-0.000863	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44° 2'	40736.0078	30.861651	3751.4254	0.001278	1.556
	222647.9413	-1.040141	3.0996	-0.000862	-0.030
44° 3'	42587.7068	30.861742	3751.5021	0.001257	1.555
	222585.5329	-1.040457	3.0478	-0.000862	-0.030
44° 4'	44439.4113	30.861832	3751.5775	0.001236	1.553
	222523.1055	-1.040772	2.9961	-0.000862	-0.030
44° 5'	46291.1212	30.861922	3751.6517	0.001215	1.552
	222460.6591	-1.041088	2.9444	-0.000861	-0.030
44° 6'	48142.8366	30.862013	3751.7246	0.001194	1.551
	222398.1939	-1.041404	2.8927	-0.000861	-0.030
44° 7'	49994.5573	30.862103	3751.7962	0.001173	1.550
	222335.7096	-1.041719	2.8411	-0.000860	-0.030
44° 8'	51846.2835	30.862194	3751.8666	0.001151	1.548
	222273.2065	-1.042035	2.7895	-0.000860	-0.030
44° 9'	53698.0151	30.862284	3751.9356	0.001130	1.547
	222210.6844	-1.042350	2.7379	-0.000859	-0.030
44°10'	55549.7522	30.862374	3752.0035	0.001109	1.546
	222148.1434	-1.042665	2.6864	-0.000859	-0.030
44°11'	57401.4946	30.862465	3752.0700	0.001088	1.544
	222085.5835	-1.042980	2.6348	-0.000858	-0.030
44°12'	59253.2425	30.862555	3752.1353	0.001067	1.543
	222023.0047	-1.043295	2.5833	-0.000858	-0.030
44°13'	61104.9958	30.862646	3752.1993	0.001046	1.542
	221960.4069	-1.043610	2.5319	-0.000857	-0.030
44°14'	62956.7546	30.862736	3752.2620	0.001024	1.541
	221897.7903	-1.043925	2.4804	-0.000857	-0.030
44°15'	64808.5187	30.862826	3752.3235	0.001003	1.539
	221835.1548	-1.044240	2.4290	-0.000856	-0.030
44°16'	66660.2883	30.862917	3752.3837	0.000982	1.538
	221772.5004	-1.044555	2.3776	-0.000856	-0.030
44°17'	68512.0633	30.863007	3752.4426	0.000961	1.537
	221709.8271	-1.044870	2.3263	-0.000856	-0.030
44°18'	70363.8438	30.863098	3752.5002	0.000940	1.536
	221647.1349	-1.045184	2.2749	-0.000855	-0.030
44°19'	72215.6296	30.863188	3752.5566	0.000919	1.534
	221584.4239	-1.045499	2.2236	-0.000855	-0.030
44°20'	74067.4209	30.863279	3752.6117	0.000897	1.533
	221521.6939	-1.045813	2.1724	-0.000854	-0.030
44°21'	75919.2176	30.863369	3752.6656	0.000876	1.532
	221458.9451	-1.046127	2.1211	-0.000854	-0.030
44°22'	77771.0198	30.863459	3752.7182	0.000855	1.531
	221396.1775	-1.046442	2.0699	-0.000853	-0.030
44°23'	79622.8273	30.863550	3752.7695	0.000834	1.529
	221333.3910	-1.046756	2.0187	-0.000853	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°24'	81474.6403	30.863640	3752.8195	0.000813	1.528
	221270.5857	-1.047070	1.9675	-0.000852	-0.030
44°25'	83326.4587	30.863731	3752.8683	0.000792	1.527
	221207.7615	-1.047384	1.9164	-0.000852	-0.030
44°26'	85178.2826	30.863821	3752.9158	0.000770	1.525
	221144.9185	-1.047698	1.8653	-0.000851	-0.030
44°27'	87030.1118	30.863912	3752.9620	0.000749	1.524
	221082.0566	-1.048011	1.8142	-0.000851	-0.031
44°28'	88881.9465	30.864002	3753.0069	0.000728	1.523
	221019.1759	-1.048325	1.7632	-0.000850	-0.031
44°29'	90733.7866	30.864092	3753.0506	0.000707	1.522
	220956.2764	-1.048639	1.7121	-0.000850	-0.031
44°30'	92585.6322	30.864183	3753.0930	0.000686	1.520
	220893.3581	-1.048952	1.6611	-0.000849	-0.031
44°31'	94437.4831	30.864273	3753.1342	0.000665	1.519
	220830.4210	-1.049266	1.6102	-0.000849	-0.031
44°32'	96289.3395	30.864364	3753.1740	0.000643	1.518
	220767.4650	-1.049579	1.5592	-0.000849	-0.031
44°33'	98141.2014	30.864454	3753.2126	0.000622	1.516
	220704.4903	-1.049892	1.5083	-0.000848	-0.031
44°34'	99993.0686	30.864545	3753.2500	0.000601	1.515
	220641.4967	-1.050205	1.4574	-0.000848	-0.031
44°35'	101844.9413	30.864635	3753.2860	0.000580	1.514
	220578.4844	-1.050519	1.4066	-0.000847	-0.031
44°36'	103696.8194	30.864725	3753.3208	0.000559	1.513
	220515.4533	-1.050832	1.3558	-0.000847	-0.031
44°37'	105548.7029	30.864816	3753.3544	0.000538	1.511
	220452.4034	-1.051144	1.3050	-0.000846	-0.031
44°38'	107400.5919	30.864906	3753.3866	0.000516	1.510
	220389.3347	-1.051457	1.2542	-0.000846	-0.031
44°39'	109252.4862	30.864997	3753.4176	0.000495	1.509
	220326.2473	-1.051770	1.2035	-0.000845	-0.031
44°40'	111104.3860	30.865087	3753.4473	0.000474	1.507
	220263.1411	-1.052083	1.1527	-0.000845	-0.031
44°41'	112956.2913	30.865178	3753.4757	0.000453	1.506
	220200.0161	-1.052395	1.1021	-0.000844	-0.031
44°42'	114808.2019	30.865268	3753.5029	0.000432	1.505
	220136.8724	-1.052708	1.0514	-0.000844	-0.031
44°43'	116660.1180	30.865359	3753.5288	0.000410	1.504
	220073.7099	-1.053020	1.0008	-0.000843	-0.031
44°44'	118512.0396	30.865449	3753.5534	0.000389	1.502
	220010.5287	-1.053332	0.9502	-0.000843	-0.031
44°45'	120363.9665	30.865540	3753.5768	0.000368	1.501
	219947.3288	-1.053645	0.8996	-0.000842	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°46'	122215.8989	30.865630	3753.5989	0.000347	1.500
	219884.1101	-1.053957	0.8491	-0.000842	-0.031
44°47'	124067.8367	30.865720	3753.6197	0.000326	1.498
	219820.8727	-1.054269	0.7986	-0.000841	-0.031
44°48'	125919.7799	30.865811	3753.6392	0.000305	1.497
	219757.6165	-1.054581	0.7481	-0.000841	-0.031
44°49'	127771.7285	30.865901	3753.6575	0.000283	1.496
	219694.3417	-1.054893	0.6976	-0.000840	-0.031
44°50'	129623.6826	30.865992	3753.6745	0.000262	1.495
	219631.0481	-1.055205	0.6472	-0.000840	-0.031
44°51'	131475.6421	30.866082	3753.6903	0.000241	1.493
	219567.7359	-1.055516	0.5968	-0.000839	-0.031
44°52'	133327.6071	30.866173	3753.7047	0.000220	1.492
	219504.4049	-1.055828	0.5464	-0.000839	-0.031
44°53'	135179.5774	30.866263	3753.7179	0.000199	1.491
	219441.0552	-1.056139	0.4961	-0.000838	-0.031
44°54'	137031.5532	30.866354	3753.7299	0.000178	1.489
	219377.6869	-1.056451	0.4458	-0.000838	-0.031
44°55'	138883.5344	30.866444	3753.7405	0.000156	1.488
	219314.2998	-1.056762	0.3955	-0.000838	-0.031
44°56'	140735.5211	30.866535	3753.7499	0.000135	1.487
	219250.8941	-1.057073	0.3453	-0.000837	-0.031
44°57'	142587.5132	30.866625	3753.7580	0.000114	1.486
	219187.4697	-1.057385	0.2950	-0.000837	-0.031
44°58'	144439.5107	30.866715	3753.7649	0.000093	1.484
	219124.0266	-1.057696	0.2448	-0.000836	-0.031
44°59'	146291.5136	30.866806	3753.7704	0.000072	1.483
	219060.5649	-1.058007	0.1947	-0.000836	-0.031
45° 0'	148143.5219	30.866896	3753.7747	0.000051	1.482
	218997.0845	-1.058318	0.1445	-0.000835	-0.031
45° 1'	149995.5357	30.866987	3753.7778	0.000029	1.480
	218933.5854	-1.058628	0.0944	-0.000835	-0.031
45° 2'	151847.5549	30.867077	3753.7795	0.000008	1.479
	218870.0677	-1.058939	0.0444	-0.000834	-0.031
45° 3'	153699.5796	30.867168	3753.7800	-0.000013	1.478
	218806.5314	-1.059250	-0.0057	-0.000834	-0.031
45° 4'	155551.6096	30.867258	3753.7792	-0.000034	1.476
	218742.9764	-1.059560	-0.0557	-0.000833	-0.031
45° 5'	157403.6451	30.867349	3753.7772	-0.000055	1.475
	218679.4028	-1.059871	-0.1057	-0.000833	-0.031
45° 6'	159255.6861	30.867439	3753.7739	-0.000077	1.474
	218615.8105	-1.060181	-0.1557	-0.000832	-0.031
45° 7'	161107.7324	30.867530	3753.7693	-0.000098	1.473
	218552.1997	-1.060491	-0.2056	-0.000832	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE EAST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45° 8'	162959.7842	30.867620	3753.7634	-0.000119	1.471
	218488.5702	-1.060802	-0.2555	-0.000831	-0.031
45° 9'	164811.8414	30.867711	3753.7563	-0.000140	1.470
	218424.9221	-1.061112	-0.3054	-0.000831	-0.031
45°10'	166663.9040	30.867801	3753.7479	-0.000161	1.469
	218361.2554	-1.061422	-0.3552	-0.000830	-0.031
45°11'	168515.9721	30.867892	3753.7382	-0.000182	1.467
	218297.5701	-1.061732	-0.4050	-0.000830	-0.031
45°12'	170368.0456	30.867982	3753.7273	-0.000204	1.466
	218233.8662	-1.062042	-0.4548	-0.000829	-0.031
45°13'	172220.1245	30.868072	3753.7150	-0.000225	1.465
	218170.1437	-1.062351	-0.5046	-0.000829	-0.031
45°14'	174072.2089	30.868163	3753.7016	-0.000246	1.463
	218106.4026	-1.062661	-0.5543	-0.000828	-0.031
45°15'	175924.2986	30.868253	3753.6868	-0.000267	1.462
	218042.6429	-1.062971	-0.6040	-0.000828	-0.031
45°16'	177776.3938	30.868344	3753.6708	-0.000288	1.461
	217978.8647	-1.063280	-0.6536	-0.000827	-0.031
45°17'	179628.4945	30.868434	3753.6535	-0.000309	1.460
	217915.0679	-1.063590	-0.7033	-0.000827	-0.031
45°18'	181480.6005	30.868525	3753.6349	-0.000331	1.458
	217851.2525	-1.063899	-0.7529	-0.000826	-0.031
45°19'	183332.7120	30.868615	3753.6151	-0.000352	1.457
	217787.4186	-1.064208	-0.8025	-0.000826	-0.031
45°20'	185184.8289	30.868706	3753.5940	-0.000373	1.456
	217723.5661	-1.064517	-0.8520	-0.000825	-0.031
45°21'	187036.9513	30.868796	3753.5716	-0.000394	1.454
	217659.6951	-1.064826	-0.9015	-0.000825	-0.031
45°22'	188889.0791	30.868887	3753.5479	-0.000415	1.453
	217595.8055	-1.065135	-0.9510	-0.000824	-0.031
45°23'	190741.2123	30.868977	3753.5230	-0.000437	1.452
	217531.8974	-1.065444	-1.0005	-0.000824	-0.031
45°24'	192593.3509	30.869068	3753.4968	-0.000458	1.450
	217467.9707	-1.065753	-1.0499	-0.000823	-0.031
45°25'	194445.4949	30.869158	3753.4694	-0.000479	1.449
	217404.0256	-1.066062	-1.0993	-0.000823	-0.031
45°26'	196297.6444	30.869249	3753.4406	-0.000500	1.448
	217340.0619	-1.066370	-1.1487	-0.000822	-0.031
45°27'	198149.7993	30.869339	3753.4106	-0.000521	1.447
	217276.0796	-1.066679	-1.1980	-0.000822	-0.031
45°28'	200001.9597	30.869429	3753.3794	-0.000542	1.445
	217212.0789	-1.066987	-1.2473	-0.000821	-0.031
45°29'	201854.1254	30.869520	3753.3468	-0.000564	1.444
	217148.0597	-1.067296	-1.2966	-0.000821	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE EAST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45°30'	203706.2966	30.869610	3753.3130	-0.000585	1.443
	217084.0219	-1.067604	-1.3458	-0.000820	-0.031
45°31'	205558.4733	30.869701	3753.2779	-0.000606	1.441
	217019.9657	-1.067912	-1.3951	-0.000820	-0.031
45°32'	207410.6553	30.869791	3753.2416	-0.000627	1.440
	216955.8910	-1.068220	-1.4442	-0.000819	-0.031
45°33'	209262.8428	30.869882	3753.2039	-0.000648	1.439
	216891.7978	-1.068528	-1.4934	-0.000819	-0.031
45°34'	211115.0357	30.869972	3753.1651	-0.000669	1.437
	216827.6861	-1.068836	-1.5425	-0.000818	-0.031
45°35'	212967.2340	30.870063	3753.1249	-0.000691	1.436
	216763.5559	-1.069144	-1.5916	-0.000818	-0.031
45°36'	214819.4378	30.870153	3753.0835	-0.000712	1.435
	216699.4073	-1.069452	-1.6407	-0.000817	-0.031
45°37'	216671.6470	30.870244	3753.0407	-0.000733	1.433
	216635.2402	-1.069759	-1.6897	-0.000817	-0.031
45°38'	218523.8616	30.870334	3752.9968	-0.000754	1.432
	216571.0547	-1.070067	-1.7387	-0.000816	-0.031
45°39'	220376.0817	30.870425	3752.9515	-0.000775	1.431
	216506.8506	-1.070374	-1.7877	-0.000816	-0.031
45°40'	222228.3071	30.870515	3752.9050	-0.000796	1.430
	216442.6282	-1.070682	-1.8367	-0.000815	-0.031
45°41'	224080.5380	30.870605	3752.8572	-0.000818	1.428
	216378.3873	-1.070989	-1.8856	-0.000815	-0.031
45°42'	225932.7744	30.870696	3752.8082	-0.000839	1.427
	216314.1280	-1.071296	-1.9345	-0.000814	-0.031
45°43'	227785.0161	30.870786	3752.7578	-0.000860	1.426
	216249.8502	-1.071603	-1.9833	-0.000814	-0.031
45°44'	229637.2633	30.870877	3752.7062	-0.000881	1.424
	216185.5540	-1.071910	-2.0322	-0.000813	-0.031
45°45'	231489.5159	30.870967	3752.6534	-0.000902	1.423
	216121.2394	-1.072217	-2.0810	-0.000813	-0.031
45°46'	233341.7739	30.871058	3752.5992	-0.000923	1.422
	216056.9064	-1.072524	-2.1297	-0.000812	-0.031
45°47'	235194.0374	30.871148	3752.5438	-0.000945	1.420
	215992.5549	-1.072831	-2.1785	-0.000812	-0.031
45°48'	237046.3063	30.871239	3752.4871	-0.000966	1.419
	215928.1851	-1.073137	-2.2272	-0.000811	-0.031
45°49'	238898.5806	30.871329	3752.4292	-0.000987	1.418
	215863.7968	-1.073444	-2.2758	-0.000811	-0.031
45°50'	240750.8603	30.871420	3752.3700	-0.001008	1.416
	215799.3902	-1.073750	-2.3245	-0.000810	-0.031
45°51'	242603.1455	30.871510	3752.3095	-0.001029	1.415
	215734.9652	-1.074057	-2.3731	-0.000810	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45°52'	244455.4361	30.871600	3752.2477	-0.001051	1.414
	215670.5217	-1.074363	-2.4217	-0.000809	-0.031
45°53'	246307.7321	30.871691	3752.1847	-0.001072	1.412
	215606.0600	-1.074669	-2.4702	-0.000809	-0.031
45°54'	248160.0336	30.871781	3752.1204	-0.001093	1.411
	215541.5798	-1.074976	-2.5187	-0.000808	-0.031
45°55'	250012.3405	30.871872	3752.0548	-0.001114	1.410
	215477.0813	-1.075282	-2.5672	-0.000808	-0.031
45°56'	251864.6528	30.871962	3751.9880	-0.001135	1.408
	215412.5644	-1.075588	-2.6157	-0.000807	-0.031
45°57'	253716.9705	30.872053	3751.9199	-0.001156	1.407
	215348.0291	-1.075893	-2.6641	-0.000807	-0.031
45°58'	255569.2937	30.872143	3751.8505	-0.001178	1.406
	215283.4755	-1.076199	-2.7125	-0.000806	-0.031
45°59'	257421.6222	30.872233	3751.7798	-0.001199	1.404
	215218.9035	-1.076505	-2.7609	-0.000806	-0.031
46° 0'	259273.9563	30.872324	3751.7079	-0.001220	1.403
	215154.3133	-1.076810	-2.8092	-0.000805	-0.031
46° 1'	261126.2957	30.872414	3751.6347	-0.001241	1.402
	215089.7046	-1.077116	-2.8575	-0.000805	-0.031
46° 2'	262978.6406	30.872505	3751.5602	-0.001262	1.401
	215025.0777	-1.077421	-2.9058	-0.000804	-0.031
46° 3'	264830.9908	30.872595	3751.4845	-0.001283	1.399
	214960.4324	-1.077727	-2.9540	-0.000804	-0.031
46° 4'	266683.3466	30.872686	3751.4075	-0.001305	1.398
	214895.7688	-1.078032	-3.0023	-0.000803	-0.031
46° 5'	268535.7077	30.872776	3751.3292	-0.001326	1.397
	214831.0869	-1.078337	-3.0504	-0.000803	-0.031
46° 6'	270388.0743	30.872867	3751.2497	-0.001347	1.395
	214766.3866	-1.078642	-3.0986	-0.000802	-0.031
46° 7'	272240.4463	30.872957	3751.1689	-0.001368	1.394
	214701.6681	-1.078947	-3.1467	-0.000801	-0.031
46° 8'	274092.8237	30.873047	3751.0868	-0.001389	1.393
	214636.9313	-1.079252	-3.1948	-0.000801	-0.031
46° 9'	275945.2065	30.873138	3751.0035	-0.001410	1.391
	214572.1762	-1.079557	-3.2429	-0.000800	-0.031
46°10'	277797.5948	30.873228	3750.9188	-0.001432	1.390
	214507.4028	-1.079861	-3.2909	-0.000800	-0.031
46°11'	279649.9885	30.873319	3750.8329	-0.001453	1.389
	214442.6111	-1.080166	-3.3389	-0.000799	-0.031
46°12'	281502.3876	30.873409	3750.7458	-0.001474	1.387
	214377.8011	-1.080471	-3.3868	-0.000799	-0.031
46°13'	283354.7921	30.873499	3750.6574	-0.001495	1.386
	214312.9729	-1.080775	-3.4348	-0.000798	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
46°14'	285207.2021	30.873590	3750.5677	-0.001516	1.385
	214248.1264	-1.081079	-3.4827	-0.000798	-0.031
46°15'	287059.6175	30.873680	3750.4767	-0.001537	1.383
	214183.2616	-1.081384	-3.5305	-0.000797	-0.031
46°16'	288912.0383	30.873771	3750.3844	-0.001558	1.382
	214118.3786	-1.081688	-3.5784	-0.000797	-0.031
46°17'	290764.4645	30.873861	3750.2909	-0.001580	1.381
	214053.4773	-1.081992	-3.6262	-0.000796	-0.031
46°18'	292616.8962	30.873951	3750.1962	-0.001601	1.379
	213988.5578	-1.082296	-3.6740	-0.000796	-0.031
46°19'	294469.3333	30.874042	3750.1001	-0.001622	1.378
	213923.6200	-1.082600	-3.7217	-0.000795	-0.031
46°20'	296321.7758	30.874132	3750.0028	-0.001643	1.377
	213858.6641	-1.082904	-3.7694	-0.000795	-0.031
46°21'	298174.2238	30.874223	3749.9042	-0.001664	1.375
	213793.6898	-1.083207	-3.8171	-0.000794	-0.031
46°22'	300026.6771	30.874313	3749.8044	-0.001685	1.374
	213728.6974	-1.083511	-3.8648	-0.000794	-0.031
46°23'	301879.1359	30.874403	3749.7032	-0.001707	1.373
	213663.6868	-1.083814	-3.9124	-0.000793	-0.031
46°24'	303731.6001	30.874494	3749.6008	-0.001728	1.371
	213598.6579	-1.084118	-3.9600	-0.000793	-0.031
46°25'	305584.0697	30.874584	3749.4972	-0.001749	1.370
	213533.6108	-1.084421	-4.0075	-0.000792	-0.031
46°26'	307436.5448	30.874675	3749.3922	-0.001770	1.369
	213468.5455	-1.084724	-4.0551	-0.000792	-0.031
46°27'	309289.0253	30.874765	3749.2860	-0.001791	1.367
	213403.4621	-1.085028	-4.1025	-0.000791	-0.031
46°28'	311141.5112	30.874855	3749.1786	-0.001812	1.366
	213338.3604	-1.085331	-4.1500	-0.000791	-0.031
46°29'	312994.0025	30.874946	3749.0698	-0.001834	1.365
	213273.2406	-1.085634	-4.1974	-0.000790	-0.031
46°30'	314846.4993	30.875036	3748.9598	-0.001855	1.363
	213208.1026	-1.085937	-4.2448	-0.000789	-0.031
46°31'	316699.0014	30.875127	3748.8485	-0.001876	1.362
	213142.9464	-1.086239	-4.2922	-0.000789	-0.031
46°32'	318551.5090	30.875217	3748.7360	-0.001897	1.361
	213077.7720	-1.086542	-4.3395	-0.000788	-0.031
46°33'	320404.0220	30.875307	3748.6221	-0.001918	1.359
	213012.5795	-1.086845	-4.3868	-0.000788	-0.031
46°34'	322256.5405	30.875398	3748.5071	-0.001939	1.358
	212947.3688	-1.087147	-4.4341	-0.000787	-0.031
46°35'	324109.0643	30.875488	3748.3907	-0.001960	1.357
	212882.1399	-1.087450	-4.4814	-0.000787	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE EAST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
46°36'	325961.5936	30.875578	3748.2731	-0.001982	1.355
	212816.8929	-1.087752	-4.5286	-0.000786	-0.031
46°37'	327814.1283	30.875669	3748.1542	-0.002003	1.354
	212751.6278	-1.088054	-4.5757	-0.000786	-0.031
46°38'	329666.6685	30.875759	3748.0340	-0.002024	1.353
	212686.3446	-1.088357	-4.6229	-0.000785	-0.031
46°39'	331519.2140	30.875850	3747.9126	-0.002045	1.351
	212621.0432	-1.088659	-4.6700	-0.000785	-0.031
46°40'	333371.7650	30.875940	3747.7899	-0.002066	1.350
	212555.7236	-1.088961	-4.7171	-0.000784	-0.031
46°41'	335224.3214	30.876030	3747.6659	-0.002087	1.349
	212490.3860	-1.089263	-4.7641	-0.000784	-0.031
46°42'	337076.8832	30.876121	3747.5407	-0.002108	1.347
	212425.0302	-1.089564	-4.8111	-0.000783	-0.031
46°43'	338929.4504	30.876211	3747.4142	-0.002130	1.346
	212359.6564	-1.089866	-4.8581	-0.000783	-0.031
46°44'	340782.0231	30.876301	3747.2864	-0.002151	1.345
	212294.2644	-1.090168	-4.9051	-0.000782	-0.031
46°45'	342634.6012	30.876392	3747.1573	-0.002172	1.343
	212228.8543	-1.090469	-4.9520	-0.000781	-0.031
46°46'	344487.1847	30.876482	3747.0270	-0.002193	1.342
	212163.4262	-1.090771	-4.9989	-0.000781	-0.031
46°47'	346339.7736	30.876572	3746.8954	-0.002214	1.341
	212097.9799	-1.091072	-5.0457	-0.000780	-0.031
46°48'	348192.3679	30.876663	3746.7626	-0.002235	1.339
	212032.5156	-1.091373	-5.0926	-0.000780	-0.031
46°49'	350044.9677	30.876753	3746.6285	-0.002256	1.338
	211967.0332	-1.091675	-5.1394	-0.000779	-0.031
46°50'	351897.5728	30.876843	3746.4931	-0.002278	1.337
	211901.5327	-1.091976	-5.1861	-0.000779	-0.031
46°51'	353750.1834	30.876934	3746.3564	-0.002299	1.335
	211836.0142	-1.092277	-5.2328	-0.000778	-0.031
46°52'	355602.7995	30.877024	3746.2185	-0.002320	1.334
	211770.4776	-1.092578	-5.2795	-0.000778	-0.031
46°53'	357455.4209	30.877114	3746.0793	-0.002341	1.333
	211704.9229	-1.092878	-5.3262	-0.000777	-0.031
46°54'	359308.0477	30.877205	3745.9388	-0.002362	1.331
	211639.3502	-1.093179	-5.3728	-0.000777	-0.031
46°55'	361160.6800	30.877295	3745.7971	-0.002383	1.330
	211573.7595	-1.093480	-5.4194	-0.000776	-0.031
46°56'	363013.3177	30.877385	3745.6541	-0.002404	1.329
	211508.1507	-1.093780	-5.4660	-0.000776	-0.031
46°57'	364865.9608	30.877475	3745.5098	-0.002426	1.327
	211442.5239	-1.094081	-5.5125	-0.000775	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE EAST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
46°58'	366718.6093	30.877566	3745.3643	-0.002447	1.326
	211376.8790	-1.094381	-5.5590	-0.000774	-0.031
46°59'	368571.2633	30.877656	3745.2175	-0.002468	1.325
	211311.2162	-1.094681	-5.6055	-0.000774	-0.031
47° 0'	370423.9227	30.877746	3745.0694	-0.002489	1.323
	211245.5353	-1.094982	-5.6519	-0.000773	-0.031
47° 1'	372276.5874	30.877837	3744.9201	-0.002510	1.322
	211179.8364	-1.095282	-5.6983	-0.000773	-0.031
47° 2'	374129.2576	30.877927	3744.7695	-0.002531	1.321
	211114.1195	-1.095582	-5.7447	-0.000772	-0.031
47° 3'	375981.9333	30.878017	3744.6176	-0.002552	1.319
	211048.3846	-1.095882	-5.7910	-0.000772	-0.031
47° 4'	377834.6143	30.878108	3744.4645	-0.002574	1.318
	210982.6317	-1.096181	-5.8374	-0.000771	-0.031
47° 5'	379687.3007	30.878198	3744.3101	-0.002595	1.317
	210916.8608	-1.096481	-5.8836	-0.000771	-0.031
47° 6'	381539.9926	30.878288	3744.1544	-0.002616	1.315
	210851.0719	-1.096781	-5.9299	-0.000770	-0.031
47° 7'	383392.6899	30.878378	3743.9974	-0.002637	1.314
	210785.2651	-1.097080	-5.9761	-0.000770	-0.031
47° 8'	385245.3926	30.878469	3743.8392	-0.002658	1.312
	210719.4403	-1.097380	-6.0222	-0.000769	-0.031
47° 9'	387098.1007	30.878559	3743.6797	-0.002679	1.311
	210653.5975	-1.097679	-6.0684	-0.000768	-0.031
47°10'	388950.8142	30.878649	3743.5190	-0.002700	1.310
	210587.7367	-1.097978	-6.1145	-0.000768	-0.031
47°11'	390803.5332	30.878739	3743.3570	-0.002721	1.308
	210521.8580	-1.098278	-6.1606	-0.000767	-0.031
47°12'	392656.2576	30.878830	3743.1937	-0.002743	1.307
	210455.9614	-1.098577	-6.2066	-0.000767	-0.031
47°13'	394508.9873	30.878920	3743.0291	-0.002764	1.306
	210390.0468	-1.098876	-6.2526	-0.000766	-0.031
47°14'	396361.7225	30.879010	3742.8633	-0.002785	1.304
	210324.1142	-1.099175	-6.2986	-0.000766	-0.031
47°15'	398214.4631	30.879100	3742.6962	-0.002806	1.303
	210258.1638	-1.099473	-6.3446	-0.000765	-0.031
47°16'	400067.2092	30.879191	3742.5279	-0.002827	1.302
	210192.1954	-1.099772	-6.3905	-0.000765	-0.031
47°17'	401919.9606	30.879281	3742.3583	-0.002848	1.300
	210126.2090	-1.100071	-6.4363	-0.000764	-0.031
47°18'	403772.7175	30.879371	3742.1874	-0.002869	1.299
	210060.2048	-1.100369	-6.4822	-0.000764	-0.031
47°19'	405625.4797	30.879461	3742.0152	-0.002890	1.298
	209994.1826	-1.100668	-6.5280	-0.000763	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0012	0.0020	0.0022

Transverse Mercator projection tables

MAINE EAST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
47°20'	407478.2474	30.879552	3741.8418	-0.002911	1.296
	209928.1426	-1.100966	-6.5738	-0.000762	-0.031
47°21'	409331.0205	30.879642	3741.6671	-0.002933	1.295
	209862.0846	-1.101264	-6.6195	-0.000762	-0.031
47°22'	411183.7990	30.879732	3741.4911	-0.002954	1.294
	209796.0087	-1.101563	-6.6653	-0.000761	-0.031
47°23'	413036.5829	30.879822	3741.3139	-0.002975	1.292
	209729.9150	-1.101861	-6.7109	-0.000761	-0.031
47°24'	414889.3723	30.879912	3741.1354	-0.002996	1.291
	209663.8033	-1.102159	-6.7566	-0.000760	-0.031
47°25'	416742.1670	30.880003	3740.9557	-0.003017	1.290
	209597.6738	-1.102457	-6.8022	-0.000760	-0.031
47°26'	418594.9672	30.880093	3740.7746	-0.003038	1.288
	209531.5264	-1.102754	-6.8478	-0.000759	-0.031
47°27'	420447.7728	30.880183	3740.5924	-0.003059	1.287
	209465.3612	-1.103052	-6.8933	-0.000759	-0.030
47°28'	422300.5837	30.880273	3740.4088	-0.003080	1.286
	209399.1780	-1.103350	-6.9388	-0.000758	-0.030
47°29'	424153.4001	30.880363	3740.2240	-0.003101	1.284
	209332.9771	-1.103647	-6.9843	-0.000757	-0.030
47°30'	426006.2219	30.880454	3740.0379	-0.003123	1.283
	209266.7582	-1.103945	-7.0298	-0.000757	-0.030
47°31'	427859.0492	30.880544	3739.8505	-0.003144	1.282
	209200.5216	-1.104242	-7.0752	-0.000756	-0.030
47°32'	429711.8818	30.880634	3739.6619	-0.003165	1.280
	209134.2670	-1.104539	-7.1206	-0.000756	-0.030
47°33'	431564.7198	30.880724	3739.4720	-0.003186	1.279
	209067.9947	-1.104836	-7.1659	-0.000755	-0.030
47°34'	433417.5633	30.880814	3739.2809	-0.003207	1.277
	209001.7045	-1.105133	-7.2112	-0.000755	-0.030
47°35'	435270.4121	30.880904	3739.0884	-0.003228	1.276
	208935.3965	-1.105430	-7.2565	-0.000754	-0.030
47°36'	437123.2664	30.880995	3738.8948	-0.003249	1.275
	208869.0707	-1.105727	-7.3018	-0.000754	-0.030
47°37'	438976.1261	30.881085	3738.6998	-0.003270	1.273
	208802.7270	-1.106024	-7.3470	-0.000753	-0.030
47°38'	440828.9912	30.881175	3738.5036	-0.003291	1.272
	208736.3656	-1.106321	-7.3922	-0.000752	-0.030
47°39'	442681.8617	30.881265	3738.3061	-0.003313	1.271
	208669.9863	-1.106617	-7.4373	-0.000752	-0.030
47°40'	444534.7376	30.881355	3738.1074	-0.003334	1.269
	208603.5893	-1.106914	-7.4824	-0.000751	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0012	0.0020	0.0022

Transverse Mercator projection tables

MAINE EAST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°40'	0.0000	30.859663	2421.1106	0.023350	38.113
	44639.6443	0.205937	515.2361	0.008810	11.279
43°41'	1851.5798	30.859754	2422.5116	0.023363	38.151
	44652.0005	0.206114	515.7647	0.008823	11.299
43°42'	3703.1650	30.859844	2423.9134	0.023376	38.189
	44664.3673	0.206292	516.2940	0.008836	11.319
43°43'	5554.7556	30.859934	2425.3160	0.023389	38.226
	44676.7448	0.206469	516.8242	0.008849	11.340
43°44'	7406.3517	30.860025	2426.7193	0.023402	38.264
	44689.1330	0.206647	517.3551	0.008862	11.360
43°45'	9257.9532	30.860115	2428.1234	0.023415	38.302
	44701.5318	0.206826	517.8868	0.008875	11.380
43°46'	11109.5601	30.860205	2429.5283	0.023428	38.340
	44713.9414	0.207004	518.4193	0.008888	11.400
43°47'	12961.1724	30.860296	2430.9340	0.023441	38.378
	44726.3616	0.207182	518.9526	0.008901	11.421
43°48'	14812.7901	30.860386	2432.3404	0.023454	38.416
	44738.7925	0.207361	519.4866	0.008914	11.441
43°49'	16664.4133	30.860476	2433.7476	0.023467	38.454
	44751.2342	0.207540	520.0215	0.008927	11.462
43°50'	18516.0419	30.860567	2435.1556	0.023480	38.492
	44763.6866	0.207719	520.5571	0.008940	11.482
43°51'	20367.6759	30.860657	2436.5644	0.023493	38.530
	44776.1498	0.207898	521.0935	0.008954	11.503
43°52'	22219.3153	30.860747	2437.9739	0.023506	38.568
	44788.6237	0.208078	521.6307	0.008967	11.523
43°53'	24070.9601	30.860838	2439.3843	0.023519	38.606
	44801.1083	0.208257	522.1688	0.008980	11.544
43°54'	25922.6104	30.860928	2440.7954	0.023532	38.645
	44813.6038	0.208437	522.7075	0.008993	11.565
43°55'	27774.2661	30.861019	2442.2073	0.023545	38.683
	44826.1100	0.208617	523.2471	0.009006	11.585
43°56'	29625.9272	30.861109	2443.6200	0.023558	38.721
	44838.6270	0.208797	523.7875	0.009020	11.606
43°57'	31477.5937	30.861199	2445.0335	0.023571	38.760
	44851.1549	0.208978	524.3287	0.009033	11.627
43°58'	33329.2657	30.861290	2446.4477	0.023584	38.798
	44863.6936	0.209158	524.8707	0.009046	11.648
43°59'	35180.9431	30.861380	2447.8628	0.023597	38.837
	44876.2431	0.209339	525.4135	0.009060	11.669
44° 0'	37032.6259	30.861470	2449.2786	0.023611	38.875
	44888.8034	0.209520	525.9571	0.009073	11.690
44° 1'	38884.3141	30.861561	2450.6953	0.023624	38.914
	44901.3746	0.209701	526.5014	0.009087	11.711

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE EAST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44° 2'	40736.0078	30.861651	2452.1127	0.023637	38.953
	44913.9567	0.209883	527.0466	0.009100	11.732
44° 3'	42587.7068	30.861742	2453.5309	0.023650	38.991
	44926.5497	0.210064	527.5926	0.009113	11.753
44° 4'	44439.4113	30.861832	2454.9499	0.023663	39.030
	44939.1535	0.210246	528.1394	0.009127	11.774
44° 5'	46291.1212	30.861922	2456.3697	0.023677	39.069
	44951.7683	0.210428	528.6871	0.009140	11.795
44° 6'	48142.8366	30.862013	2457.7903	0.023690	39.108
	44964.3939	0.210610	529.2355	0.009154	11.816
44° 7'	49994.5573	30.862103	2459.2117	0.023703	39.147
	44977.0305	0.210792	529.7847	0.009168	11.838
44° 8'	51846.2835	30.862194	2460.6339	0.023716	39.186
	44989.6781	0.210975	530.3348	0.009181	11.859
44° 9'	53698.0151	30.862284	2462.0569	0.023730	39.225
	45002.3365	0.211157	530.8856	0.009195	11.880
44°10'	55549.7522	30.862374	2463.4806	0.023743	39.264
	45015.0060	0.211340	531.4373	0.009208	11.902
44°11'	57401.4946	30.862465	2464.9052	0.023756	39.303
	45027.6864	0.211523	531.9898	0.009222	11.923
44°12'	59253.2425	30.862555	2466.3306	0.023770	39.342
	45040.3778	0.211706	532.5431	0.009236	11.945
44°13'	61104.9958	30.862646	2467.7568	0.023783	39.381
	45053.0801	0.211890	533.0973	0.009249	11.966
44°14'	62956.7546	30.862736	2469.1838	0.023796	39.421
	45065.7935	0.212073	533.6522	0.009263	11.988
44°15'	64808.5187	30.862826	2470.6116	0.023810	39.460
	45078.5179	0.212257	534.2080	0.009277	12.009
44°16'	66660.2883	30.862917	2472.0401	0.023823	39.499
	45091.2533	0.212441	534.7646	0.009291	12.031
44°17'	68512.0633	30.863007	2473.4695	0.023837	39.539
	45103.9998	0.212625	535.3221	0.009304	12.053
44°18'	70363.8438	30.863098	2474.8997	0.023850	39.578
	45116.7573	0.212810	535.8803	0.009318	12.075
44°19'	72215.6296	30.863188	2476.3307	0.023864	39.618
	45129.5259	0.212994	536.4394	0.009332	12.097
44°20'	74067.4209	30.863279	2477.7625	0.023877	39.657
	45142.3056	0.213179	536.9994	0.009346	12.118
44°21'	75919.2176	30.863369	2479.1952	0.023890	39.697
	45155.0963	0.213364	537.5601	0.009360	12.140
44°22'	77771.0198	30.863459	2480.6286	0.023904	39.737
	45167.8982	0.213549	538.1217	0.009374	12.162
44°23'	79622.8273	30.863550	2482.0628	0.023917	39.776
	45180.7111	0.213735	538.6841	0.009388	12.184

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE EAST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°24'	81474.6403	30.863640	2483.4979	0.023931	39.816
	45193.5352	0.213920	539.2474	0.009402	12.206
44°25'	83326.4587	30.863731	2484.9337	0.023945	39.856
	45206.3704	0.214106	539.8115	0.009416	12.229
44°26'	85178.2826	30.863821	2486.3704	0.023958	39.896
	45219.2167	0.214292	540.3765	0.009430	12.251
44°27'	87030.1118	30.863912	2487.8079	0.023972	39.936
	45232.0743	0.214478	540.9423	0.009444	12.273
44°28'	88881.9465	30.864002	2489.2462	0.023985	39.976
	45244.9429	0.214664	541.5089	0.009458	12.295
44°29'	90733.7866	30.864092	2490.6853	0.023999	40.016
	45257.8228	0.214851	542.0764	0.009472	12.318
44°30'	92585.6322	30.864183	2492.1253	0.024013	40.056
	45270.7138	0.215037	542.6447	0.009486	12.340
44°31'	94437.4831	30.864273	2493.5660	0.024026	40.096
	45283.6161	0.215224	543.2139	0.009500	12.362
44°32'	96289.3395	30.864364	2495.0076	0.024040	40.136
	45296.5295	0.215412	543.7839	0.009515	12.385
44°33'	98141.2014	30.864454	2496.4500	0.024054	40.177
	45309.4542	0.215599	544.3547	0.009529	12.407
44°34'	99993.0686	30.864545	2497.8932	0.024067	40.217
	45322.3902	0.215786	544.9265	0.009543	12.430
44°35'	101844.9413	30.864635	2499.3372	0.024081	40.257
	45335.3373	0.215974	545.4991	0.009557	12.453
44°36'	103696.8194	30.864725	2500.7821	0.024095	40.298
	45348.2958	0.216162	546.0725	0.009572	12.475
44°37'	105548.7029	30.864816	2502.2278	0.024108	40.338
	45361.2655	0.216350	546.6468	0.009586	12.498
44°38'	107400.5919	30.864906	2503.6743	0.024122	40.379
	45374.2465	0.216538	547.2219	0.009600	12.521
44°39'	109252.4862	30.864997	2505.1216	0.024136	40.419
	45387.2388	0.216727	547.7979	0.009615	12.544
44°40'	111104.3860	30.865087	2506.5697	0.024150	40.460
	45400.2424	0.216916	548.3748	0.009629	12.566
44°41'	112956.2913	30.865178	2508.0187	0.024163	40.501
	45413.2573	0.217104	548.9526	0.009643	12.589
44°42'	114808.2019	30.865268	2509.4685	0.024177	40.541
	45426.2836	0.217294	549.5312	0.009658	12.612
44°43'	116660.1180	30.865359	2510.9192	0.024191	40.582
	45439.3212	0.217483	550.1106	0.009672	12.635
44°44'	118512.0396	30.865449	2512.3706	0.024205	40.623
	45452.3702	0.217672	550.6910	0.009687	12.658
44°45'	120363.9665	30.865540	2513.8229	0.024219	40.664
	45465.4305	0.217862	551.2722	0.009701	12.682

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°46'	122215.8989	30.865630	2515.2761	0.024233	40.705
	45478.5023	0.218052	551.8542	0.009716	12.705
44°47'	124067.8367	30.865720	2516.7300	0.024247	40.746
	45491.5854	0.218242	552.4372	0.009730	12.728
44°48'	125919.7799	30.865811	2518.1848	0.024261	40.787
	45504.6799	0.218432	553.0210	0.009745	12.751
44°49'	127771.7285	30.865901	2519.6405	0.024274	40.828
	45517.7859	0.218623	553.6057	0.009760	12.775
44°50'	129623.6826	30.865992	2521.0969	0.024288	40.869
	45530.9032	0.218814	554.1913	0.009774	12.798
44°51'	131475.6421	30.866082	2522.5542	0.024302	40.911
	45544.0321	0.219005	554.7778	0.009789	12.821
44°52'	133327.6071	30.866173	2524.0124	0.024316	40.952
	45557.1723	0.219196	555.3651	0.009804	12.845
44°53'	135179.5774	30.866263	2525.4714	0.024330	40.993
	45570.3241	0.219387	555.9533	0.009818	12.868
44°54'	137031.5532	30.866354	2526.9312	0.024344	41.035
	45583.4873	0.219579	556.5424	0.009833	12.892
44°55'	138883.5344	30.866444	2528.3919	0.024358	41.076
	45596.6620	0.219770	557.1324	0.009848	12.916
44°56'	140735.5211	30.866535	2529.8534	0.024372	41.118
	45609.8482	0.219962	557.7233	0.009863	12.939
44°57'	142587.5132	30.866625	2531.3157	0.024387	41.159
	45623.0459	0.220154	558.3151	0.009878	12.963
44°58'	144439.5107	30.866715	2532.7789	0.024401	41.201
	45636.2552	0.220347	558.9078	0.009893	12.987
44°59'	146291.5136	30.866806	2534.2430	0.024415	41.242
	45649.4760	0.220539	559.5013	0.009908	13.011
45° 0'	148143.5219	30.866896	2535.7078	0.024429	41.284
	45662.7084	0.220732	560.0958	0.009922	13.035
45° 1'	149995.5357	30.866987	2537.1736	0.024443	41.326
	45675.9523	0.220925	560.6911	0.009937	13.059
45° 2'	151847.5549	30.867077	2538.6401	0.024457	41.368
	45689.2078	0.221118	561.2874	0.009952	13.083
45° 3'	153699.5796	30.867168	2540.1076	0.024471	41.410
	45702.4749	0.221311	561.8845	0.009967	13.107
45° 4'	155551.6096	30.867258	2541.5758	0.024485	41.452
	45715.7536	0.221505	562.4825	0.009982	13.131
45° 5'	157403.6451	30.867349	2543.0450	0.024500	41.494
	45729.0439	0.221699	563.0815	0.009998	13.155
45° 6'	159255.6861	30.867439	2544.5149	0.024514	41.536
	45742.3458	0.221893	563.6813	0.010013	13.179
45° 7'	161107.7324	30.867530	2545.9858	0.024528	41.578
	45755.6594	0.222087	564.2821	0.010028	13.204

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45° 8'	162959.7842	30.867620	2547.4575	0.024542	41.620
	45768.9846	0.222281	564.8838	0.010043	13.228
45° 9'	164811.8414	30.867711	2548.9300	0.024557	41.662
	45782.3215	0.222476	565.4863	0.010058	13.252
45°10'	166663.9040	30.867801	2550.4034	0.024571	41.704
	45795.6700	0.222671	566.0898	0.010073	13.277
45°11'	168515.9721	30.867892	2551.8776	0.024585	41.747
	45809.0303	0.222866	566.6942	0.010089	13.301
45°12'	170368.0456	30.867982	2553.3528	0.024599	41.789
	45822.4022	0.223061	567.2995	0.010104	13.326
45°13'	172220.1245	30.868072	2554.8287	0.024614	41.832
	45835.7859	0.223257	567.9058	0.010119	13.350
45°14'	174072.2089	30.868163	2556.3056	0.024628	41.874
	45849.1813	0.223452	568.5129	0.010134	13.375
45°15'	175924.2986	30.868253	2557.7832	0.024643	41.917
	45862.5885	0.223648	569.1210	0.010150	13.400
45°16'	177776.3938	30.868344	2559.2618	0.024657	41.959
	45876.0074	0.223844	569.7299	0.010165	13.425
45°17'	179628.4945	30.868434	2560.7412	0.024671	42.002
	45889.4380	0.224041	570.3399	0.010181	13.449
45°18'	181480.6005	30.868525	2562.2215	0.024686	42.045
	45902.8804	0.224237	570.9507	0.010196	13.474
45°19'	183332.7120	30.868615	2563.7026	0.024700	42.087
	45916.3347	0.224434	571.5624	0.010211	13.499
45°20'	185184.8289	30.868706	2565.1846	0.024715	42.130
	45929.8007	0.224631	572.1751	0.010227	13.524
45°21'	187036.9513	30.868796	2566.6675	0.024729	42.173
	45943.2786	0.224828	572.7887	0.010242	13.549
45°22'	188889.0791	30.868887	2568.1513	0.024744	42.216
	45956.7682	0.225025	573.4033	0.010258	13.574
45°23'	190741.2123	30.868977	2569.6359	0.024758	42.259
	45970.2697	0.225223	574.0188	0.010274	13.600
45°24'	192593.3509	30.869068	2571.1213	0.024773	42.302
	45983.7831	0.225421	574.6352	0.010289	13.625
45°25'	194445.4949	30.869158	2572.6077	0.024787	42.345
	45997.3084	0.225619	575.2525	0.010305	13.650
45°26'	196297.6444	30.869249	2574.0949	0.024802	42.389
	46010.8455	0.225817	575.8708	0.010321	13.675
45°27'	198149.7993	30.869339	2575.5830	0.024816	42.432
	46024.3945	0.226015	576.4901	0.010336	13.701
45°28'	200001.9597	30.869429	2577.0720	0.024831	42.475
	46037.9554	0.226214	577.1102	0.010352	13.726
45°29'	201854.1254	30.869520	2578.5618	0.024845	42.519
	46051.5282	0.226413	577.7314	0.010368	13.752

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE EAST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45°30'	203706.2966	30.869610	2580.0526	0.024860	42.562
	46065.1130	0.226612	578.3534	0.010383	13.777
45°31'	205558.4733	30.869701	2581.5442	0.024875	42.605
	46078.7097	0.226811	578.9764	0.010399	13.803
45°32'	207410.6553	30.869791	2583.0366	0.024889	42.649
	46092.3184	0.227011	579.6004	0.010415	13.829
45°33'	209262.8428	30.869882	2584.5300	0.024904	42.693
	46105.9390	0.227210	580.2253	0.010431	13.854
45°34'	211115.0357	30.869972	2586.0242	0.024919	42.736
	46119.5716	0.227410	580.8511	0.010447	13.880
45°35'	212967.2340	30.870063	2587.5194	0.024933	42.780
	46133.2162	0.227610	581.4780	0.010463	13.906
45°36'	214819.4378	30.870153	2589.0154	0.024948	42.824
	46146.8729	0.227811	582.1057	0.010479	13.932
45°37'	216671.6470	30.870244	2590.5122	0.024963	42.868
	46160.5415	0.228011	582.7345	0.010495	13.958
45°38'	218523.8616	30.870334	2592.0100	0.024978	42.912
	46174.2222	0.228212	583.3642	0.010511	13.984
45°39'	220376.0817	30.870425	2593.5087	0.024992	42.955
	46187.9149	0.228413	583.9948	0.010527	14.010
45°40'	222228.3071	30.870515	2595.0082	0.025007	43.000
	46201.6197	0.228614	584.6264	0.010543	14.036
45°41'	224080.5380	30.870605	2596.5086	0.025022	43.044
	46215.3366	0.228816	585.2590	0.010559	14.062
45°42'	225932.7744	30.870696	2598.0100	0.025037	43.088
	46229.0655	0.229018	585.8925	0.010575	14.089
45°43'	227785.0161	30.870786	2599.5122	0.025052	43.132
	46242.8066	0.229219	586.5270	0.010591	14.115
45°44'	229637.2633	30.870877	2601.0153	0.025066	43.176
	46256.5598	0.229422	587.1625	0.010608	14.141
45°45'	231489.5159	30.870967	2602.5192	0.025081	43.220
	46270.3251	0.229624	587.7990	0.010624	14.168
45°46'	233341.7739	30.871058	2604.0241	0.025096	43.265
	46284.1025	0.229826	588.4364	0.010640	14.194
45°47'	235194.0374	30.871148	2605.5299	0.025111	43.309
	46297.8921	0.230029	589.0748	0.010656	14.221
45°48'	237046.3063	30.871239	2607.0366	0.025126	43.354
	46311.6938	0.230232	589.7142	0.010673	14.247
45°49'	238898.5806	30.871329	2608.5441	0.025141	43.398
	46325.5078	0.230435	590.3546	0.010689	14.274
45°50'	240750.8603	30.871420	2610.0526	0.025156	43.443
	46339.3339	0.230639	590.9959	0.010705	14.301
45°51'	242603.1455	30.871510	2611.5620	0.025171	43.488
	46353.1722	0.230843	591.6382	0.010722	14.328

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0015

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45°52'	244455.4361	30.871600	2613.0722	0.025186	43.532
	46367.0228	0.231046	592.2815	0.010738	14.355
45°53'	246307.7321	30.871691	2614.5834	0.025201	43.577
	46380.8856	0.231251	592.9258	0.010755	14.381
45°54'	248160.0336	30.871781	2616.0955	0.025216	43.622
	46394.7606	0.231455	593.5711	0.010771	14.408
45°55'	250012.3405	30.871872	2617.6084	0.025231	43.667
	46408.6479	0.231659	594.2174	0.010788	14.435
45°56'	251864.6528	30.871962	2619.1223	0.025246	43.712
	46422.5475	0.231864	594.8647	0.010804	14.463
45°57'	253716.9705	30.872053	2620.6371	0.025261	43.757
	46436.4594	0.232069	595.5129	0.010821	14.490
45°58'	255569.2937	30.872143	2622.1528	0.025276	43.802
	46450.3835	0.232275	596.1622	0.010838	14.517
45°59'	257421.6222	30.872233	2623.6693	0.025292	43.847
	46464.3200	0.232480	596.8125	0.010854	14.544
46° 0'	259273.9563	30.872324	2625.1868	0.025307	43.893
	46478.2688	0.232686	597.4637	0.010871	14.572
46° 1'	261126.2957	30.872414	2626.7052	0.025322	43.938
	46492.2299	0.232892	598.1160	0.010888	14.599
46° 2'	262978.6406	30.872505	2628.2246	0.025337	43.983
	46506.2034	0.233098	598.7692	0.010905	14.627
46° 3'	264830.9908	30.872595	2629.7448	0.025352	44.029
	46520.1893	0.233304	599.4235	0.010921	14.654
46° 4'	266683.3466	30.872686	2631.2659	0.025368	44.074
	46534.1875	0.233511	600.0788	0.010938	14.682
46° 5'	268535.7077	30.872776	2632.7880	0.025383	44.120
	46548.1981	0.233717	600.7351	0.010955	14.709
46° 6'	270388.0743	30.872867	2634.3109	0.025398	44.165
	46562.2212	0.233924	601.3924	0.010972	14.737
46° 7'	272240.4463	30.872957	2635.8348	0.025413	44.211
	46576.2567	0.234132	602.0507	0.010989	14.765
46° 8'	274092.8237	30.873047	2637.3596	0.025429	44.257
	46590.3046	0.234339	602.7100	0.011006	14.793
46° 9'	275945.2065	30.873138	2638.8853	0.025444	44.302
	46604.3649	0.234547	603.3704	0.011023	14.821
46°10'	277797.5948	30.873228	2640.4120	0.025459	44.348
	46618.4377	0.234755	604.0317	0.011040	14.849
46°11'	279649.9885	30.873319	2641.9395	0.025475	44.394
	46632.5230	0.234963	604.6941	0.011057	14.877
46°12'	281502.3876	30.873409	2643.4680	0.025490	44.440
	46646.6208	0.235172	605.3575	0.011074	14.905
46°13'	283354.7921	30.873499	2644.9974	0.025505	44.486
	46660.7311	0.235380	606.0219	0.011091	14.933

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
46°14'	285207.2021	30.873590	2646.5277	0.025521	44.532
	46674.8539	0.235589	606.6874	0.011108	14.961
46°15'	287059.6175	30.873680	2648.0589	0.025536	44.579
	46688.9893	0.235798	607.3539	0.011125	14.990
46°16'	288912.0383	30.873771	2649.5911	0.025552	44.625
	46703.1371	0.236007	608.0214	0.011143	15.018
46°17'	290764.4645	30.873861	2651.1242	0.025567	44.671
	46717.2976	0.236217	608.6900	0.011160	15.046
46°18'	292616.8962	30.873951	2652.6582	0.025583	44.717
	46731.4706	0.236427	609.3595	0.011177	15.075
46°19'	294469.3333	30.874042	2654.1932	0.025598	44.764
	46745.6562	0.236637	610.0302	0.011194	15.103
46°20'	296321.7758	30.874132	2655.7291	0.025614	44.810
	46759.8544	0.236847	610.7018	0.011212	15.132
46°21'	298174.2238	30.874223	2657.2659	0.025629	44.857
	46774.0653	0.237058	611.3745	0.011229	15.161
46°22'	300026.6771	30.874313	2658.8036	0.025645	44.904
	46788.2887	0.237268	612.0483	0.011246	15.190
46°23'	301879.1359	30.874403	2660.3423	0.025660	44.950
	46802.5248	0.237479	612.7231	0.011264	15.218
46°24'	303731.6001	30.874494	2661.8819	0.025676	44.997
	46816.7736	0.237690	613.3989	0.011281	15.247
46°25'	305584.0697	30.874584	2663.4225	0.025691	45.044
	46831.0350	0.237902	614.0758	0.011299	15.276
46°26'	307436.5448	30.874675	2664.9639	0.025707	45.091
	46845.3091	0.238114	614.7537	0.011316	15.305
46°27'	309289.0253	30.874765	2666.5064	0.025723	45.138
	46859.5959	0.238325	615.4327	0.011334	15.334
46°28'	311141.5112	30.874855	2668.0497	0.025738	45.185
	46873.8954	0.238538	616.1127	0.011352	15.364
46°29'	312994.0025	30.874946	2669.5940	0.025754	45.232
	46888.2077	0.238750	616.7938	0.011369	15.393
46°30'	314846.4993	30.875036	2671.1393	0.025770	45.279
	46902.5327	0.238963	617.4760	0.011387	15.422
46°31'	316699.0014	30.875127	2672.6855	0.025785	45.326
	46916.8704	0.239175	618.1592	0.011405	15.451
46°32'	318551.5090	30.875217	2674.2326	0.025801	45.373
	46931.2210	0.239388	618.8435	0.011422	15.481
46°33'	320404.0220	30.875307	2675.7807	0.025817	45.421
	46945.5843	0.239602	619.5288	0.011440	15.510
46°34'	322256.5405	30.875398	2677.3297	0.025833	45.468
	46959.9604	0.239815	620.2152	0.011458	15.540
46°35'	324109.0643	30.875488	2678.8796	0.025849	45.516
	46974.3493	0.240029	620.9027	0.011476	15.570

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE EAST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
46°36'	325961.5936	30.875578	2680.4306	0.025864	45.563
	46988.7510	0.240243	621.5913	0.011494	15.599
46°37'	327814.1283	30.875669	2681.9824	0.025880	45.611
	47003.1656	0.240457	622.2809	0.011512	15.629
46°38'	329666.6685	30.875759	2683.5352	0.025896	45.658
	47017.5931	0.240672	622.9716	0.011530	15.659
46°39'	331519.2140	30.875850	2685.0890	0.025912	45.706
	47032.0334	0.240887	623.6634	0.011548	15.689
46°40'	333371.7650	30.875940	2686.6437	0.025928	45.754
	47046.4866	0.241102	624.3562	0.011566	15.719
46°41'	335224.3214	30.876030	2688.1994	0.025944	45.802
	47060.9527	0.241317	625.0501	0.011584	15.749
46°42'	337076.8832	30.876121	2689.7560	0.025960	45.850
	47075.4317	0.241532	625.7452	0.011602	15.779
46°43'	338929.4504	30.876211	2691.3136	0.025976	45.898
	47089.9236	0.241748	626.4413	0.011620	15.809
46°44'	340782.0231	30.876301	2692.8721	0.025992	45.946
	47104.4285	0.241964	627.1384	0.011638	15.839
46°45'	342634.6012	30.876392	2694.4316	0.026008	45.994
	47118.9463	0.242180	627.8367	0.011656	15.870
46°46'	344487.1847	30.876482	2695.9921	0.026024	46.042
	47133.4771	0.242397	628.5361	0.011674	15.900
46°47'	346339.7736	30.876572	2697.5535	0.026040	46.090
	47148.0209	0.242613	629.2365	0.011693	15.931
46°48'	348192.3679	30.876663	2699.1159	0.026056	46.139
	47162.5777	0.242830	629.9381	0.011711	15.961
46°49'	350044.9677	30.876753	2700.6792	0.026072	46.187
	47177.1475	0.243047	630.6408	0.011729	15.992
46°50'	351897.5728	30.876843	2702.2435	0.026088	46.236
	47191.7304	0.243265	631.3445	0.011748	16.022
46°51'	353750.1834	30.876934	2703.8088	0.026104	46.284
	47206.3263	0.243482	632.0494	0.011766	16.053
46°52'	355602.7995	30.877024	2705.3750	0.026120	46.333
	47220.9352	0.243700	632.7553	0.011784	16.084
46°53'	357455.4209	30.877114	2706.9422	0.026136	46.382
	47235.5572	0.243918	633.4624	0.011803	16.115
46°54'	359308.0477	30.877205	2708.5104	0.026152	46.430
	47250.1923	0.244137	634.1706	0.011821	16.146
46°55'	361160.6800	30.877295	2710.0795	0.026169	46.479
	47264.8405	0.244355	634.8799	0.011840	16.177
46°56'	363013.3177	30.877385	2711.6496	0.026185	46.528
	47279.5018	0.244574	635.5903	0.011859	16.208
46°57'	364865.9608	30.877475	2713.2207	0.026201	46.577
	47294.1763	0.244793	636.3018	0.011877	16.239

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0015	-0.0016

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
46°58'	366718.6093	30.877566	2714.7928	0.026217	46.626
	47308.8639	0.245013	637.0144	0.011896	16.270
46°59'	368571.2633	30.877656	2716.3658	0.026233	46.675
	47323.5647	0.245232	637.7282	0.011914	16.302
47° 0'	370423.9227	30.877746	2717.9398	0.026250	46.724
	47338.2786	0.245452	638.4430	0.011933	16.333
47° 1'	372276.5874	30.877837	2719.5148	0.026266	46.773
	47353.0057	0.245672	639.1590	0.011952	16.365
47° 2'	374129.2576	30.877927	2721.0908	0.026282	46.823
	47367.7461	0.245893	639.8761	0.011971	16.396
47° 3'	375981.9333	30.878017	2722.6677	0.026299	46.872
	47382.4996	0.246113	640.5944	0.011990	16.428
47° 4'	377834.6143	30.878108	2724.2456	0.026315	46.922
	47397.2664	0.246334	641.3138	0.012008	16.460
47° 5'	379687.3007	30.878198	2725.8245	0.026331	46.971
	47412.0464	0.246555	642.0343	0.012027	16.491
47° 6'	381539.9926	30.878288	2727.4044	0.026348	47.021
	47426.8398	0.246776	642.7559	0.012046	16.523
47° 7'	383392.6899	30.878378	2728.9853	0.026364	47.070
	47441.6463	0.246998	643.4787	0.012065	16.555
47° 8'	385245.3926	30.878469	2730.5672	0.026381	47.120
	47456.4662	0.247220	644.2026	0.012084	16.587
47° 9'	387098.1007	30.878559	2732.1500	0.026397	47.170
	47471.2994	0.247442	644.9277	0.012103	16.619
47°10'	388950.8142	30.878649	2733.7338	0.026414	47.220
	47486.1459	0.247664	645.6539	0.012122	16.651
47°11'	390803.5332	30.878739	2735.3187	0.026430	47.270
	47501.0058	0.247887	646.3812	0.012142	16.684
47°12'	392656.2576	30.878830	2736.9045	0.026447	47.320
	47515.8790	0.248110	647.1097	0.012161	16.716
47°13'	394508.9873	30.878920	2738.4913	0.026463	47.370
	47530.7656	0.248333	647.8393	0.012180	16.748
47°14'	396361.7225	30.879010	2740.0791	0.026480	47.420
	47545.6656	0.248556	648.5701	0.012199	16.781
47°15'	398214.4631	30.879100	2741.6679	0.026496	47.470
	47560.5790	0.248780	649.3021	0.012218	16.813
47°16'	400067.2092	30.879191	2743.2576	0.026513	47.520
	47575.5058	0.249004	650.0352	0.012238	16.846
47°17'	401919.9606	30.879281	2744.8484	0.026530	47.571
	47590.4460	0.249228	650.7695	0.012257	16.878
47°18'	403772.7175	30.879371	2746.4402	0.026546	47.621
	47605.3997	0.249452	651.5049	0.012276	16.911
47°19'	405625.4797	30.879461	2748.0330	0.026563	47.672
	47620.3668	0.249677	652.2415	0.012296	16.944

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0015	-0.0017

Transverse Mercator projection tables

MAINE EAST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
47°20'	407478.2474	30.879552	2749.6267	0.026580	47.722
	47635.3474	0.249902	652.9792	0.012315	16.977
47°21'	409331.0205	30.879642	2751.2215	0.026596	47.773
	47650.3415	0.250127	653.7182	0.012335	17.010
47°22'	411183.7990	30.879732	2752.8173	0.026613	47.824
	47665.3491	0.250352	654.4582	0.012354	17.043
47°23'	413036.5829	30.879822	2754.4141	0.026630	47.874
	47680.3703	0.250578	655.1995	0.012374	17.076
47°24'	414889.3723	30.879912	2756.0119	0.026647	47.925
	47695.4049	0.250804	655.9420	0.012394	17.109
47°25'	416742.1670	30.880003	2757.6107	0.026663	47.976
	47710.4532	0.251030	656.6856	0.012413	17.143
47°26'	418594.9672	30.880093	2759.2105	0.026680	48.027
	47725.5150	0.251256	657.4304	0.012433	17.176
47°27'	420447.7728	30.880183	2760.8113	0.026697	48.078
	47740.5903	0.251483	658.1763	0.012453	17.209
47°28'	422300.5837	30.880273	2762.4131	0.026714	48.129
	47755.6793	0.251710	658.9235	0.012472	17.243
47°29'	424153.4001	30.880363	2764.0159	0.026731	48.181
	47770.7819	0.251937	659.6718	0.012492	17.276
47°30'	426006.2219	30.880454	2765.6198	0.026748	48.232
	47785.8982	0.252165	660.4214	0.012512	17.310
47°31'	427859.0492	30.880544	2767.2246	0.026765	48.283
	47801.0281	0.252392	661.1721	0.012532	17.344
47°32'	429711.8818	30.880634	2768.8305	0.026781	48.335
	47816.1716	0.252620	661.9240	0.012552	17.378
47°33'	431564.7198	30.880724	2770.4374	0.026798	48.386
	47831.3288	0.252849	662.6771	0.012572	17.412
47°34'	433417.5633	30.880814	2772.0453	0.026815	48.438
	47846.4997	0.253077	663.4315	0.012592	17.446
47°35'	435270.4121	30.880904	2773.6542	0.026832	48.489
	47861.6844	0.253306	664.1870	0.012612	17.480
47°36'	437123.2664	30.880995	2775.2642	0.026849	48.541
	47876.8827	0.253535	664.9437	0.012632	17.514
47°37'	438976.1261	30.881085	2776.8751	0.026866	48.593
	47892.0948	0.253764	665.7016	0.012652	17.548
47°38'	440828.9912	30.881175	2778.4871	0.026883	48.645
	47907.3207	0.253994	666.4607	0.012672	17.583
47°39'	442681.8617	30.881265	2780.1001	0.026901	48.697
	47922.5603	0.254224	667.2211	0.012692	17.617
47°40'	444534.7376	30.881355	2781.7141	0.026918	48.749
	47937.8137	0.254454	667.9826	0.012713	17.651

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0015	-0.0017

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°40'	0.0000	30.859663	6904.6169	0.035065	2.861	
			30821.9642	0.298764	480.311	0.012297
43°41'	1851.5798	30.859754	6906.7208	0.035055	2.860	
			30839.8900	0.298929	480.857	0.012297
43°42'	3703.1650	30.859844	6908.8241	0.035046	2.859	
			30857.8258	0.299095	481.405	0.012297
43°43'	5554.7556	30.859934	6910.9268	0.035036	2.858	
			30875.7715	0.299262	481.953	0.012297
43°44'	7406.3517	30.860025	6913.0290	0.035026	2.858	
			30893.7272	0.299428	482.501	0.012297
43°45'	9257.9532	30.860115	6915.1306	0.035016	2.857	
			30911.6929	0.299594	483.051	0.012297
43°46'	11109.5601	30.860205	6917.2315	0.035007	2.856	
			30929.6685	0.299761	483.601	0.012297
43°47'	12961.1724	30.860296	6919.3319	0.034997	2.856	
			30947.6542	0.299928	484.152	0.012297
43°48'	14812.7901	30.860386	6921.4317	0.034987	2.855	
			30965.6499	0.300095	484.704	0.012297
43°49'	16664.4133	30.860476	6923.5310	0.034977	2.854	
			30983.6556	0.300262	485.257	0.012297
43°50'	18516.0419	30.860567	6925.6296	0.034968	2.853	
			31001.6713	0.300430	485.810	0.012297
43°51'	20367.6759	30.860657	6927.7276	0.034958	2.853	
			31019.6971	0.300597	486.364	0.012297
43°52'	22219.3153	30.860747	6929.8251	0.034948	2.852	
			31037.7329	0.300765	486.919	0.012297
43°53'	24070.9601	30.860838	6931.9220	0.034938	2.851	
			31055.7788	0.300933	487.475	0.012297
43°54'	25922.6104	30.860928	6934.0183	0.034928	2.850	
			31073.8348	0.301101	488.031	0.012297
43°55'	27774.2661	30.861019	6936.1140	0.034919	2.850	
			31091.9009	0.301270	488.589	0.012297
43°56'	29625.9272	30.861109	6938.2091	0.034909	2.849	
			31109.9770	0.301438	489.147	0.012297
43°57'	31477.5937	30.861199	6940.3036	0.034899	2.848	
			31128.0633	0.301607	489.706	0.012296
43°58'	33329.2657	30.861290	6942.3976	0.034889	2.847	
			31146.1598	0.301776	490.266	0.012296
43°59'	35180.9431	30.861380	6944.4909	0.034879	2.847	
			31164.2663	0.301945	490.826	0.012296
44° 0'	37032.6259	30.861470	6946.5837	0.034870	2.846	
			31182.3830	0.302115	491.387	0.012296
44° 1'	38884.3141	30.861561	6948.6759	0.034860	2.845	
			31200.5099	0.302284	491.949	0.012296

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44° 2'	40736.0078	30.861651	6950.7675	0.034850	2.844	
			31218.6470	0.302454	492.512	0.012296
44° 3'	42587.7068	30.861742	6952.8585	0.034840	2.843	
			31236.7942	0.302624	493.076	0.012296
44° 4'	44439.4113	30.861832	6954.9489	0.034830	2.843	
			31254.9516	0.302794	493.640	0.012296
44° 5'	46291.1212	30.861922	6957.0387	0.034821	2.842	
			31273.1193	0.302964	494.206	0.012296
44° 6'	48142.8366	30.862013	6959.1280	0.034811	2.841	
			31291.2971	0.303135	494.772	0.012296
44° 7'	49994.5573	30.862103	6961.2166	0.034801	2.840	
			31309.4852	0.303306	495.339	0.012296
44° 8'	51846.2835	30.862194	6963.3047	0.034791	2.840	
			31327.6836	0.303477	495.906	0.012296
44° 9'	53698.0151	30.862284	6965.3921	0.034781	2.839	
			31345.8922	0.303648	496.475	0.012296
44°10'	55549.7522	30.862374	6967.4790	0.034772	2.838	
			31364.1110	0.303819	497.044	0.012296
44°11'	57401.4946	30.862465	6969.5653	0.034762	2.837	
			31382.3402	0.303991	497.614	0.012296
44°12'	59253.2425	30.862555	6971.6510	0.034752	2.837	
			31400.5796	0.304162	498.185	0.012296
44°13'	61104.9958	30.862646	6973.7361	0.034742	2.836	
			31418.8293	0.304334	498.757	0.012296
44°14'	62956.7546	30.862736	6975.8207	0.034732	2.835	
			31437.0894	0.304506	499.330	0.012296
44°15'	64808.5187	30.862826	6977.9046	0.034722	2.834	
			31455.3597	0.304679	499.903	0.012296
44°16'	66660.2883	30.862917	6979.9879	0.034713	2.833	
			31473.6405	0.304851	500.477	0.012296
44°17'	68512.0633	30.863007	6982.0707	0.034703	2.833	
			31491.9315	0.305024	501.052	0.012296
44°18'	70363.8438	30.863098	6984.1529	0.034693	2.832	
			31510.2330	0.305197	501.628	0.012295
44°19'	72215.6296	30.863188	6986.2344	0.034683	2.831	
			31528.5448	0.305370	502.205	0.012295
44°20'	74067.4209	30.863279	6988.3154	0.034673	2.830	
			31546.8669	0.305543	502.782	0.012295
44°21'	75919.2176	30.863369	6990.3958	0.034663	2.830	
			31565.1995	0.305717	503.361	0.012295
44°22'	77771.0198	30.863459	6992.4756	0.034653	2.829	
			31583.5425	0.305890	503.940	0.012295
44°23'	79622.8273	30.863550	6994.5548	0.034644	2.828	
			31601.8959	0.306064	504.520	0.012295

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°24'	81474.6403	30.863640	6996.6334	0.034634	2.827	
			31620.2598	0.306238	505.101	0.012295
44°25'	83326.4587	30.863731	6998.7114	0.034624	2.826	
			31638.6341	0.306413	505.682	0.012295
44°26'	85178.2826	30.863821	7000.7889	0.034614	2.826	
			31657.0189	0.306587	506.265	0.012295
44°27'	87030.1118	30.863912	7002.8657	0.034604	2.825	
			31675.4141	0.306762	506.848	0.012295
44°28'	88881.9465	30.864002	7004.9419	0.034594	2.824	
			31693.8198	0.306937	507.432	0.012295
44°29'	90733.7866	30.864092	7007.0176	0.034584	2.823	
			31712.2360	0.307112	508.017	0.012295
44°30'	92585.6322	30.864183	7009.0926	0.034574	2.822	
			31730.6627	0.307287	508.603	0.012295
44°31'	94437.4831	30.864273	7011.1671	0.034565	2.822	
			31749.1000	0.307463	509.190	0.012295
44°32'	96289.3395	30.864364	7013.2410	0.034555	2.821	
			31767.5477	0.307638	509.777	0.012295
44°33'	98141.2014	30.864454	7015.3143	0.034545	2.820	
			31786.0060	0.307814	510.366	0.012295
44°34'	99993.0686	30.864545	7017.3869	0.034535	2.819	
			31804.4749	0.307991	510.955	0.012295
44°35'	101844.9413	30.864635	7019.4590	0.034525	2.818	
			31822.9543	0.308167	511.545	0.012295
44°36'	103696.8194	30.864725	7021.5305	0.034515	2.818	
			31841.4443	0.308343	512.136	0.012295
44°37'	105548.7029	30.864816	7023.6014	0.034505	2.817	
			31859.9449	0.308520	512.727	0.012295
44°38'	107400.5919	30.864906	7025.6717	0.034495	2.816	
			31878.4561	0.308697	513.320	0.012295
44°39'	109252.4862	30.864997	7027.7415	0.034485	2.815	
			31896.9780	0.308874	513.914	0.012294
44°40'	111104.3860	30.865087	7029.8106	0.034475	2.814	
			31915.5104	0.309052	514.508	0.012294
44°41'	112956.2913	30.865178	7031.8791	0.034465	2.814	
			31934.0535	0.309229	515.103	0.012294
44°42'	114808.2019	30.865268	7033.9470	0.034456	2.813	
			31952.6073	0.309407	515.699	0.012294
44°43'	116660.1180	30.865359	7036.0144	0.034446	2.812	
			31971.1717	0.309585	516.296	0.012294
44°44'	118512.0396	30.865449	7038.0811	0.034436	2.811	
			31989.7468	0.309763	516.894	0.012294
44°45'	120363.9665	30.865540	7040.1472	0.034426	2.810	
			32008.3326	0.309941	517.492	0.012294

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°46'	122215.8989	30.865630	7042.2128	0.034416	2.810	
			32026.9290	0.310120	518.092	0.012294
44°47'	124067.8367	30.865720	7044.2777	0.034406	2.809	
			32045.5363	0.310299	518.692	0.012294
44°48'	125919.7799	30.865811	7046.3421	0.034396	2.808	
			32064.1542	0.310478	519.293	0.012294
44°49'	127771.7285	30.865901	7048.4059	0.034386	2.807	
			32082.7829	0.310657	519.895	0.012294
44°50'	129623.6826	30.865992	7050.4690	0.034376	2.806	
			32101.4223	0.310837	520.498	0.012294
44°51'	131475.6421	30.866082	7052.5316	0.034366	2.806	
			32120.0725	0.311016	521.102	0.012294
44°52'	133327.6071	30.866173	7054.5936	0.034356	2.805	
			32138.7334	0.311196	521.707	0.012294
44°53'	135179.5774	30.866263	7056.6549	0.034346	2.804	
			32157.4052	0.311376	522.312	0.012294
44°54'	137031.5532	30.866354	7058.7157	0.034336	2.803	
			32176.0878	0.311556	522.919	0.012294
44°55'	138883.5344	30.866444	7060.7759	0.034326	2.802	
			32194.7811	0.311737	523.526	0.012294
44°56'	140735.5211	30.866535	7062.8355	0.034316	2.801	
			32213.4854	0.311917	524.134	0.012294
44°57'	142587.5132	30.866625	7064.8944	0.034306	2.801	
			32232.2004	0.312098	524.744	0.012294
44°58'	144439.5107	30.866715	7066.9528	0.034296	2.800	
			32250.9263	0.312279	525.354	0.012294
44°59'	146291.5136	30.866806	7069.0106	0.034286	2.799	
			32269.6631	0.312461	525.964	0.012294
45° 0'	148143.5219	30.866896	7071.0678	0.034277	2.798	
			32288.4107	0.312642	526.576	0.012293
45° 1'	149995.5357	30.866987	7073.1244	0.034267	2.797	
			32307.1693	0.312824	527.189	0.012293
45° 2'	151847.5549	30.867077	7075.1804	0.034257	2.796	
			32325.9387	0.313006	527.802	0.012293
45° 3'	153699.5796	30.867168	7077.2358	0.034247	2.796	
			32344.7191	0.313188	528.417	0.012293
45° 4'	155551.6096	30.867258	7079.2906	0.034237	2.795	
			32363.5104	0.313371	529.032	0.012293
45° 5'	157403.6451	30.867349	7081.3448	0.034227	2.794	
			32382.3126	0.313553	529.648	0.012293
45° 6'	159255.6861	30.867439	7083.3984	0.034217	2.793	
			32401.1258	0.313736	530.265	0.012293
45° 7'	161107.7324	30.867530	7085.4514	0.034207	2.792	
			32419.9500	0.313919	530.883	0.012293

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45° 8'	162959.7842	30.867620	7087.5038	0.034197	2.791	
			32438.7851	0.314102	531.502	0.012293
45° 9'	164811.8414	30.867711	7089.5556	0.034187	2.791	
			32457.6312	0.314286	532.122	0.012293
45°10'	166663.9040	30.867801	7091.6068	0.034177	2.790	
			32476.4884	0.314469	532.743	0.012293
45°11'	168515.9721	30.867892	7093.6574	0.034167	2.789	
			32495.3565	0.314653	533.365	0.012293
45°12'	170368.0456	30.867982	7095.7074	0.034157	2.788	
			32514.2357	0.314837	533.987	0.012293
45°13'	172220.1245	30.868072	7097.7568	0.034147	2.787	
			32533.1260	0.315022	534.611	0.012293
45°14'	174072.2089	30.868163	7099.8056	0.034137	2.786	
			32552.0272	0.315206	535.235	0.012293
45°15'	175924.2986	30.868253	7101.8538	0.034127	2.786	
			32570.9396	0.315391	535.860	0.012293
45°16'	177776.3938	30.868344	7103.9014	0.034117	2.785	
			32589.8631	0.315576	536.486	0.012293
45°17'	179628.4945	30.868434	7105.9483	0.034107	2.784	
			32608.7976	0.315761	537.113	0.012293
45°18'	181480.6005	30.868525	7107.9947	0.034097	2.783	
			32627.7433	0.315946	537.741	0.012293
45°19'	183332.7120	30.868615	7110.0405	0.034086	2.782	
			32646.7001	0.316132	538.370	0.012293
45°20'	185184.8289	30.868706	7112.0857	0.034076	2.781	
			32665.6680	0.316318	539.000	0.012292
45°21'	187036.9513	30.868796	7114.1303	0.034066	2.780	
			32684.6470	0.316504	539.631	0.012292
45°22'	188889.0791	30.868887	7116.1743	0.034056	2.780	
			32703.6373	0.316690	540.263	0.012292
45°23'	190741.2123	30.868977	7118.2177	0.034046	2.779	
			32722.6387	0.316877	540.895	0.012292
45°24'	192593.3509	30.869068	7120.2605	0.034036	2.778	
			32741.6513	0.317063	541.529	0.012292
45°25'	194445.4949	30.869158	7122.3026	0.034026	2.777	
			32760.6751	0.317250	542.163	0.012292
45°26'	196297.6444	30.869249	7124.3442	0.034016	2.776	
			32779.7101	0.317437	542.799	0.012292
45°27'	198149.7993	30.869339	7126.3852	0.034006	2.775	
			32798.7563	0.317625	543.435	0.012292
45°28'	200001.9597	30.869429	7128.4256	0.033996	2.774	
			32817.8138	0.317812	544.073	0.012292
45°29'	201854.1254	30.869520	7130.4653	0.033986	2.774	
			32836.8825	0.318000	544.711	0.012292

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45°30'	203706.2966	30.869610	7132.5045	0.033976	2.773	
			32855.9625	0.318188	545.350	0.012292
45°31'	205558.4733	30.869701	7134.5431	0.033966	2.772	
			32875.0538	0.318376	545.990	0.012292
45°32'	207410.6553	30.869791	7136.5810	0.033956	2.771	
			32894.1564	0.318565	546.631	0.012292
45°33'	209262.8428	30.869882	7138.6184	0.033946	2.770	
			32913.2703	0.318753	547.273	0.012292
45°34'	211115.0357	30.869972	7140.6551	0.033936	2.769	
			32932.3955	0.318942	547.916	0.012292
45°35'	212967.2340	30.870063	7142.6913	0.033926	2.768	
			32951.5320	0.319131	548.560	0.012292
45°36'	214819.4378	30.870153	7144.7268	0.033916	2.767	
			32970.6799	0.319321	549.205	0.012292
45°37'	216671.6470	30.870244	7146.7617	0.033906	2.767	
			32989.8392	0.319510	549.851	0.012292
45°38'	218523.8616	30.870334	7148.7961	0.033895	2.766	
			33009.0098	0.319700	550.497	0.012292
45°39'	220376.0817	30.870425	7150.8298	0.033885	2.765	
			33028.1918	0.319890	551.145	0.012292
45°40'	222228.3071	30.870515	7152.8629	0.033875	2.764	
			33047.3852	0.320080	551.794	0.012292
45°41'	224080.5380	30.870605	7154.8954	0.033865	2.763	
			33066.5900	0.320271	552.443	0.012291
45°42'	225932.7744	30.870696	7156.9273	0.033855	2.762	
			33085.8063	0.320462	553.094	0.012291
45°43'	227785.0161	30.870786	7158.9586	0.033845	2.761	
			33105.0340	0.320653	553.745	0.012291
45°44'	229637.2633	30.870877	7160.9893	0.033835	2.760	
			33124.2731	0.320844	554.398	0.012291
45°45'	231489.5159	30.870967	7163.0194	0.033825	2.760	
			33143.5238	0.321035	555.051	0.012291
45°46'	233341.7739	30.871058	7165.0489	0.033815	2.759	
			33162.7859	0.321227	555.706	0.012291
45°47'	235194.0374	30.871148	7167.0778	0.033805	2.758	
			33182.0595	0.321418	556.361	0.012291
45°48'	237046.3063	30.871239	7169.1061	0.033794	2.757	
			33201.3446	0.321611	557.018	0.012291
45°49'	238898.5806	30.871329	7171.1337	0.033784	2.756	
			33220.6412	0.321803	557.675	0.012291
45°50'	240750.8603	30.871420	7173.1608	0.033774	2.755	
			33239.9494	0.321995	558.333	0.012291
45°51'	242603.1455	30.871510	7175.1873	0.033764	2.754	
			33259.2691	0.322188	558.993	0.012291

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

MAINE EAST Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45°52'	244455.4361	30.871600	7177.2131	0.033754	2.753	
			33278.6004	0.322381	559.653	0.012291
45°53'	246307.7321	30.871691	7179.2383	0.033744	2.752	
			33297.9432	0.322574	560.314	0.012291
45°54'	248160.0336	30.871781	7181.2630	0.033734	2.752	
			33317.2977	0.322768	560.976	0.012291
45°55'	250012.3405	30.871872	7183.2870	0.033724	2.751	
			33336.6637	0.322961	561.640	0.012291
45°56'	251864.6528	30.871962	7185.3104	0.033713	2.750	
			33356.0414	0.323155	562.304	0.012291
45°57'	253716.9705	30.872053	7187.3332	0.033703	2.749	
			33375.4307	0.323349	562.969	0.012291
45°58'	255569.2937	30.872143	7189.3554	0.033693	2.748	
			33394.8317	0.323544	563.635	0.012291
45°59'	257421.6222	30.872233	7191.3770	0.033683	2.747	
			33414.2443	0.323738	564.302	0.012291
46° 0'	259273.9563	30.872324	7193.3980	0.033673	2.746	
			33433.6686	0.323933	564.971	0.012291
46° 1'	261126.2957	30.872414	7195.4184	0.033663	2.745	
			33453.1046	0.324128	565.640	0.012291
46° 2'	262978.6406	30.872505	7197.4381	0.033653	2.744	
			33472.5522	0.324323	566.310	0.012290
46° 3'	264830.9908	30.872595	7199.4573	0.033642	2.743	
			33492.0116	0.324519	566.981	0.012290
46° 4'	266683.3466	30.872686	7201.4758	0.033632	2.743	
			33511.4828	0.324714	567.653	0.012290
46° 5'	268535.7077	30.872776	7203.4938	0.033622	2.742	
			33530.9656	0.324910	568.327	0.012290
46° 6'	270388.0743	30.872867	7205.5111	0.033612	2.741	
			33550.4602	0.325107	569.001	0.012290
46° 7'	272240.4463	30.872957	7207.5278	0.033602	2.740	
			33569.9666	0.325303	569.676	0.012290
46° 8'	274092.8237	30.873047	7209.5439	0.033592	2.739	
			33589.4848	0.325500	570.352	0.012290
46° 9'	275945.2065	30.873138	7211.5594	0.033581	2.738	
			33609.0148	0.325697	571.029	0.012290
46°10'	277797.5948	30.873228	7213.5743	0.033571	2.737	
			33628.5566	0.325894	571.708	0.012290
46°11'	279649.9885	30.873319	7215.5886	0.033561	2.736	
			33648.1102	0.326091	572.387	0.012290
46°12'	281502.3876	30.873409	7217.6023	0.033551	2.735	
			33667.6757	0.326289	573.067	0.012290
46°13'	283354.7921	30.873499	7219.6153	0.033541	2.734	
			33687.2530	0.326486	573.748	0.012290

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
46°14'	285207.2021	30.873590	7221.6278	0.033531	2.733	
			33706.8422	0.326685	574.431	0.012290
46°15'	287059.6175	30.873680	7223.6396	0.033520	2.733	
			33726.4433	0.326883	575.114	0.012290
46°16'	288912.0383	30.873771	7225.6508	0.033510	2.732	
			33746.0562	0.327081	575.798	0.012290
46°17'	290764.4645	30.873861	7227.6615	0.033500	2.731	
			33765.6811	0.327280	576.484	0.012290
46°18'	292616.8962	30.873951	7229.6715	0.033490	2.730	
			33785.3179	0.327479	577.170	0.012290
46°19'	294469.3333	30.874042	7231.6808	0.033480	2.729	
			33804.9667	0.327678	577.857	0.012290
46°20'	296321.7758	30.874132	7233.6896	0.033469	2.728	
			33824.6274	0.327878	578.546	0.012290
46°21'	298174.2238	30.874223	7235.6978	0.033459	2.727	
			33844.3001	0.328078	579.235	0.012290
46°22'	300026.6771	30.874313	7237.7053	0.033449	2.726	
			33863.9847	0.328278	579.926	0.012290
46°23'	301879.1359	30.874403	7239.7123	0.033439	2.725	
			33883.6814	0.328478	580.617	0.012289
46°24'	303731.6001	30.874494	7241.7186	0.033429	2.724	
			33903.3901	0.328678	581.310	0.012289
46°25'	305584.0697	30.874584	7243.7243	0.033418	2.723	
			33923.1108	0.328879	582.004	0.012289
46°26'	307436.5448	30.874675	7245.7294	0.033408	2.722	
			33942.8435	0.329080	582.698	0.012289
46°27'	309289.0253	30.874765	7247.7339	0.033398	2.722	
			33962.5883	0.329281	583.394	0.012289
46°28'	311141.5112	30.874855	7249.7378	0.033388	2.721	
			33982.3452	0.329482	584.091	0.012289
46°29'	312994.0025	30.874946	7251.7411	0.033377	2.720	
			34002.1141	0.329684	584.789	0.012289
46°30'	314846.4993	30.875036	7253.7437	0.033367	2.719	
			34021.8951	0.329886	585.488	0.012289
46°31'	316699.0014	30.875127	7255.7457	0.033357	2.718	
			34041.6883	0.330088	586.188	0.012289
46°32'	318551.5090	30.875217	7257.7472	0.033347	2.717	
			34061.4936	0.330291	586.889	0.012289
46°33'	320404.0220	30.875307	7259.7480	0.033337	2.716	
			34081.3110	0.330493	587.591	0.012289
46°34'	322256.5405	30.875398	7261.7482	0.033326	2.715	
			34101.1406	0.330696	588.294	0.012289
46°35'	324109.0643	30.875488	7263.7477	0.033316	2.714	
			34120.9824	0.330899	588.998	0.012289

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0014	-0.0015

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
46°36'	325961.5936	30.875578	7265.7467	0.033306	2.713	
			34140.8363	0.331102	589.703	0.012289
46°37'	327814.1283	30.875669	7267.7451	0.033296	2.712	
			34160.7025	0.331306	590.409	0.012289
46°38'	329666.6685	30.875759	7269.7428	0.033285	2.711	
			34180.5808	0.331510	591.117	0.012289
46°39'	331519.2140	30.875850	7271.7399	0.033275	2.710	
			34200.4714	0.331714	591.825	0.012289
46°40'	333371.7650	30.875940	7273.7364	0.033265	2.709	
			34220.3743	0.331918	592.535	0.012289
46°41'	335224.3214	30.876030	7275.7323	0.033255	2.708	
			34240.2894	0.332123	593.245	0.012289
46°42'	337076.8832	30.876121	7277.7276	0.033244	2.707	
			34260.2167	0.332328	593.957	0.012289
46°43'	338929.4504	30.876211	7279.7222	0.033234	2.707	
			34280.1564	0.332533	594.670	0.012289
46°44'	340782.0231	30.876301	7281.7163	0.033224	2.706	
			34300.1084	0.332738	595.384	0.012288
46°45'	342634.6012	30.876392	7283.7097	0.033213	2.705	
			34320.0726	0.332944	596.099	0.012288
46°46'	344487.1847	30.876482	7285.7025	0.033203	2.704	
			34340.0493	0.333149	596.815	0.012288
46°47'	346339.7736	30.876572	7287.6947	0.033193	2.703	
			34360.0382	0.333355	597.532	0.012288
46°48'	348192.3679	30.876663	7289.6863	0.033183	2.702	
			34380.0396	0.333562	598.250	0.012288
46°49'	350044.9677	30.876753	7291.6772	0.033172	2.701	
			34400.0533	0.333768	598.969	0.012288
46°50'	351897.5728	30.876843	7293.6676	0.033162	2.700	
			34420.0794	0.333975	599.690	0.012288
46°51'	353750.1834	30.876934	7295.6573	0.033152	2.699	
			34440.1179	0.334182	600.411	0.012288
46°52'	355602.7995	30.877024	7297.6464	0.033141	2.698	
			34460.1688	0.334389	601.134	0.012288
46°53'	357455.4209	30.877114	7299.6349	0.033131	2.697	
			34480.2322	0.334597	601.857	0.012288
46°54'	359308.0477	30.877205	7301.6228	0.033121	2.696	
			34500.3080	0.334805	602.582	0.012288
46°55'	361160.6800	30.877295	7303.6100	0.033111	2.695	
			34520.3963	0.335013	603.308	0.012288
46°56'	363013.3177	30.877385	7305.5967	0.033100	2.694	
			34540.4971	0.335221	604.035	0.012288
46°57'	364865.9608	30.877475	7307.5827	0.033090	2.693	
			34560.6103	0.335430	604.763	0.012288

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
46°58'	366718.6093	30.877566	7309.5681	0.033080	2.692	
			34580.7361	0.335639	605.492	0.012288
46°59'	368571.2633	30.877656	7311.5529	0.033069	2.691	
			34600.8744	0.335848	606.222	0.012288
47° 0'	370423.9227	30.877746	7313.5370	0.033059	2.690	
			34621.0253	0.336057	606.954	0.012288
47° 1'	372276.5874	30.877837	7315.5206	0.033049	2.689	
			34641.1887	0.336266	607.686	0.012288
47° 2'	374129.2576	30.877927	7317.5035	0.033038	2.688	
			34661.3647	0.336476	608.420	0.012288
47° 3'	375981.9333	30.878017	7319.4858	0.033028	2.687	
			34681.5533	0.336686	609.155	0.012288
47° 4'	377834.6143	30.878108	7321.4675	0.033018	2.686	
			34701.7544	0.336897	609.891	0.012288
47° 5'	379687.3007	30.878198	7323.4485	0.033007	2.685	
			34721.9682	0.337107	610.628	0.012287
47° 6'	381539.9926	30.878288	7325.4290	0.032997	2.684	
			34742.1947	0.337318	611.366	0.012287
47° 7'	383392.6899	30.878378	7327.4088	0.032987	2.683	
			34762.4338	0.337529	612.105	0.012287
47° 8'	385245.3926	30.878469	7329.3880	0.032976	2.683	
			34782.6855	0.337741	612.846	0.012287
47° 9'	387098.1007	30.878559	7331.3666	0.032966	2.682	
			34802.9499	0.337952	613.587	0.012287
47°10'	388950.8142	30.878649	7333.3446	0.032956	2.681	
			34823.2271	0.338164	614.330	0.012287
47°11'	390803.5332	30.878739	7335.3219	0.032945	2.680	
			34843.5169	0.338376	615.074	0.012287
47°12'	392656.2576	30.878830	7337.2986	0.032935	2.679	
			34863.8195	0.338588	615.819	0.012287
47°13'	394508.9873	30.878920	7339.2747	0.032925	2.678	
			34884.1348	0.338801	616.565	0.012287
47°14'	396361.7225	30.879010	7341.2502	0.032914	2.677	
			34904.4629	0.339014	617.312	0.012287
47°15'	398214.4631	30.879100	7343.2251	0.032904	2.676	
			34924.8037	0.339227	618.061	0.012287
47°16'	400067.2092	30.879191	7345.1993	0.032894	2.675	
			34945.1573	0.339441	618.810	0.012287
47°17'	401919.9606	30.879281	7347.1730	0.032883	2.674	
			34965.5238	0.339654	619.561	0.012287
47°18'	403772.7175	30.879371	7349.1460	0.032873	2.673	
			34985.9030	0.339868	620.313	0.012287
47°19'	405625.4797	30.879461	7351.1183	0.032863	2.672	
			35006.2951	0.340082	621.066	0.012287

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE EAST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
47°20'	407478.2474	30.879552	7353.0901	0.032852	2.671	
			35026.7000	0.340297	621.820	0.012287
47°21'	409331.0205	30.879642	7355.0612	0.032842	2.670	
			35047.1179	0.340512	622.575	0.012287
47°22'	411183.7990	30.879732	7357.0317	0.032831	2.669	
			35067.5485	0.340726	623.332	0.012287
47°23'	413036.5829	30.879822	7359.0016	0.032821	2.668	
			35087.9921	0.340942	624.089	0.012287
47°24'	414889.3723	30.879912	7360.9709	0.032811	2.667	
			35108.4486	0.341157	624.848	0.012287
47°25'	416742.1670	30.880003	7362.9395	0.032800	2.666	
			35128.9181	0.341373	625.608	0.012287
47°26'	418594.9672	30.880093	7364.9075	0.032790	2.665	
			35149.4005	0.341589	626.369	0.012286
47°27'	420447.7728	30.880183	7366.8749	0.032780	2.664	
			35169.8958	0.341805	627.132	0.012286
47°28'	422300.5837	30.880273	7368.8417	0.032769	2.663	
			35190.4041	0.342022	627.895	0.012286
47°29'	424153.4001	30.880363	7370.8078	0.032759	2.662	
			35210.9254	0.342239	628.660	0.012286
47°30'	426006.2219	30.880454	7372.7734	0.032748	2.661	
			35231.4597	0.342456	629.426	0.012286
47°31'	427859.0492	30.880544	7374.7383	0.032738	2.660	
			35252.0071	0.342673	630.193	0.012286
47°32'	429711.8818	30.880634	7376.7025	0.032728	2.659	
			35272.5675	0.342891	630.961	0.012286
47°33'	431564.7198	30.880724	7378.6662	0.032717	2.658	
			35293.1409	0.343109	631.731	0.012286
47°34'	433417.5633	30.880814	7380.6292	0.032707	2.657	
			35313.7274	0.343327	632.502	0.012286
47°35'	435270.4121	30.880904	7382.5916	0.032696	2.656	
			35334.3270	0.343545	633.273	0.012286
47°36'	437123.2664	30.880995	7384.5534	0.032686	2.655	
			35354.9397	0.343764	634.046	0.012286
47°37'	438976.1261	30.881085	7386.5146	0.032675	2.654	
			35375.5656	0.343983	634.821	0.012286
47°38'	440828.9912	30.881175	7388.4751	0.032665	2.653	
			35396.2045	0.344202	635.596	0.012286
47°39'	442681.8617	30.881265	7390.4350	0.032655	2.652	
			35416.8566	0.344421	636.373	0.012286
47°40'	444534.7376	30.881355	7392.3943	0.032644	2.651	
			35437.5219	0.344641	637.151	0.012286

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MAINE WEST
ZONE CODE: 1802

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Projection defining constants

$\phi_b = 42°50'$ (latitude of grid origin)
$\lambda_b = 70°10'$ (longitude of origin and Central Meridian, CM)
$E_0 = 900000$ m (easting coordinate of grid origin)
$N_b = 0$ m (northing coordinate of grid origin)
$k_0 = 0.999967$ (scale along Central Meridian)
latitude range from $\phi_{min} = 42°50'$ to $\phi_{max} = 46°50'$

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 43°10'40".15000
LONGITUDE: 71°20'40".20000

$p = 10^{-4}\Delta\lambda$ = -0.42402000
TABULAR (I) = 37029.6778
40.15000 sec = 1238.9893
SECOND DIFF = -0.0006
(I) = 38268.6665
TABULAR (II) = 3745.9382
40.15000 sec = 0.0955
(II) = 3746.0337
TABULAR (III) = 1.6208
$N = (I) + (II)p^2 + (III)p^4$ = 38942.229 m

TABULAR (IV) = 225881.9966
40.15000 sec = -41.1002
SECOND DIFF = 0.0021
(IV) = 225840.8986
TABULAR (V) = 5.8277
40.15000 sec = -0.0356
(V) = 5.7921
TABULAR (VI) = -0.0300
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -95761.499 m
$E = E_0 + E'$ = 804238.501 m

TABULAR (XII) = 6841.2289
40.15000 sec = 1.4195
(XII) = 6842.6485
TABULAR (XIII) = 2.8821
$C = (XII)p + (XIII)p^3$ = -2901".64

$q = 10^{-6} E'$ = -0.09576150
TABULAR (XVI) = 0.012297
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00007943

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.09576150$
$\phi' = 43°11' 1''.97708$

TABULAR	(VII) =	2380.4961
1.97708 sec	=	0.0454
	(VII) =	2380.5415
TABULAR	(VIII) =	37.0322
1.97708 sec	=	0.0012
	(VIII) =	37.0334

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 43°10'40''.15000$

TABULAR	(IX) =	44282.9442
1.97708 sec	=	0.3971
SECOND DIFF	=	-0.0002
	(IX) =	44283.3412
TABULAR	(X) =	500.1384
1.97708 sec	=	0.0167
	(X) =	500.1550
TABULAR	(XI) =	10.7108
1.97708 sec	=	0.0006
	(XI) =	10.7114

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 71°20'40''.19983$

TABULAR	(XIV) =	30304.3699
1.97708 sec	=	0.5813
SECOND DIFF	=	-0.0002
	(XIV) =	30304.9510
TABULAR	(XV) =	464.6999
1.97708 sec	=	0.0173
	(XV) =	464.7172

$C = (XIV)q - (XV)q^3 = -2901''.64$

TABULAR (XVI) = 0.012297

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00007943$

Transverse Mercator projection tables

MAINE WEST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°50'	0.0000	30.857208	3742.8187	0.002800	1.645
	227106.3521	-1.017242	6.8956	-0.000894	-0.030
42°51'	1851.4325	30.857298	3742.9867	0.002779	1.644
	227045.3176	-1.017564	6.8420	-0.000894	-0.030
42°52'	3702.8704	30.857388	3743.1534	0.002758	1.643
	226984.2638	-1.017886	6.7884	-0.000893	-0.030
42°53'	5554.3137	30.857479	3743.3189	0.002737	1.642
	226923.1906	-1.018208	6.7348	-0.000893	-0.030
42°54'	7405.7624	30.857569	3743.4831	0.002716	1.640
	226862.0981	-1.018529	6.6812	-0.000892	-0.030
42°55'	9257.2165	30.857659	3743.6461	0.002695	1.639
	226800.9864	-1.018851	6.6277	-0.000892	-0.030
42°56'	11108.6761	30.857749	3743.8078	0.002674	1.638
	226739.8553	-1.019173	6.5742	-0.000891	-0.030
42°57'	12960.1410	30.857839	3743.9682	0.002652	1.637
	226678.7049	-1.019494	6.5207	-0.000891	-0.030
42°58'	14811.6114	30.857929	3744.1273	0.002631	1.636
	226617.5353	-1.019816	6.4672	-0.000891	-0.030
42°59'	16663.0871	30.858020	3744.2852	0.002610	1.634
	226556.3463	-1.020137	6.4138	-0.000890	-0.030
43° 0'	18514.5683	30.858110	3744.4418	0.002589	1.633
	226495.1381	-1.020458	6.3604	-0.000890	-0.030
43° 1'	20366.0549	30.858200	3744.5972	0.002568	1.632
	226433.9106	-1.020779	6.3070	-0.000889	-0.030
43° 2'	22217.5469	30.858290	3744.7512	0.002547	1.631
	226372.6639	-1.021101	6.2536	-0.000889	-0.030
43° 3'	24069.0443	30.858380	3744.9040	0.002526	1.629
	226311.3978	-1.021422	6.2003	-0.000888	-0.030
43° 4'	25920.5471	30.858471	3745.0556	0.002505	1.628
	226250.1125	-1.021742	6.1470	-0.000888	-0.030
43° 5'	27772.0554	30.858561	3745.2059	0.002483	1.627
	226188.8080	-1.022063	6.0937	-0.000888	-0.030
43° 6'	29623.5690	30.858651	3745.3549	0.002462	1.626
	226127.4842	-1.022384	6.0405	-0.000887	-0.030
43° 7'	31475.0881	30.858741	3745.5026	0.002441	1.625
	226066.1412	-1.022705	5.9872	-0.000887	-0.030
43° 8'	33326.6126	30.858832	3745.6491	0.002420	1.623
	226004.7789	-1.023025	5.9340	-0.000886	-0.030
43° 9'	35178.1425	30.858922	3745.7943	0.002399	1.622
	225943.3974	-1.023346	5.8808	-0.000886	-0.030
43°10'	37029.6778	30.859012	3745.9382	0.002378	1.621
	225881.9966	-1.023666	5.8277	-0.000886	-0.030
43°11'	38881.2185	30.859102	3746.0809	0.002357	1.620
	225820.5767	-1.023986	5.7745	-0.000885	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°12'	40732.7646	30.859193	3746.2223	0.002336	1.618
	225759.1375	-1.024307	5.7214	-0.000885	-0.030
43°13'	42584.3162	30.859283	3746.3625	0.002315	1.617
	225697.6791	-1.024627	5.6684	-0.000884	-0.030
43°14'	44435.8732	30.859373	3746.5013	0.002293	1.616
	225636.2015	-1.024947	5.6153	-0.000884	-0.030
43°15'	46287.4355	30.859463	3746.6389	0.002272	1.615
	225574.7046	-1.025267	5.5623	-0.000883	-0.030
43°16'	48139.0033	30.859554	3746.7753	0.002251	1.613
	225513.1886	-1.025587	5.5093	-0.000883	-0.030
43°17'	49990.5766	30.859644	3746.9103	0.002230	1.612
	225451.6534	-1.025907	5.4563	-0.000882	-0.030
43°18'	51842.1552	30.859734	3747.0441	0.002209	1.611
	225390.0990	-1.026226	5.4034	-0.000882	-0.030
43°19'	53693.7392	30.859824	3747.1767	0.002188	1.610
	225328.5254	-1.026546	5.3504	-0.000882	-0.030
43°20'	55545.3287	30.859915	3747.3079	0.002167	1.608
	225266.9327	-1.026866	5.2975	-0.000881	-0.030
43°21'	57396.9236	30.860005	3747.4379	0.002145	1.607
	225205.3207	-1.027185	5.2447	-0.000881	-0.030
43°22'	59248.5239	30.860095	3747.5667	0.002124	1.606
	225143.6896	-1.027504	5.1918	-0.000880	-0.030
43°23'	61100.1296	30.860185	3747.6941	0.002103	1.605
	225082.0394	-1.027824	5.1390	-0.000880	-0.030
43°24'	62951.7407	30.860276	3747.8203	0.002082	1.604
	225020.3699	-1.028143	5.0862	-0.000879	-0.030
43°25'	64803.3572	30.860366	3747.9452	0.002061	1.602
	224958.6814	-1.028462	5.0334	-0.000879	-0.030
43°26'	66654.9792	30.860456	3748.0689	0.002040	1.601
	224896.9736	-1.028781	4.9807	-0.000879	-0.030
43°27'	68506.6066	30.860547	3748.1913	0.002019	1.600
	224835.2468	-1.029100	4.9280	-0.000878	-0.030
43°28'	70358.2394	30.860637	3748.3124	0.001998	1.599
	224773.5008	-1.029419	4.8753	-0.000878	-0.030
43°29'	72209.8776	30.860727	3748.4322	0.001976	1.597
	224711.7356	-1.029738	4.8226	-0.000877	-0.030
43°30'	74061.5212	30.860818	3748.5508	0.001955	1.596
	224649.9514	-1.030057	4.7700	-0.000877	-0.030
43°31'	75913.1703	30.860908	3748.6681	0.001934	1.595
	224588.1480	-1.030375	4.7174	-0.000876	-0.030
43°32'	77764.8247	30.860998	3748.7842	0.001913	1.594
	224526.3255	-1.030694	4.6648	-0.000876	-0.030
43°33'	79616.4846	30.861088	3748.8990	0.001892	1.592
	224464.4838	-1.031012	4.6123	-0.000875	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°34'	81468.1499	30.861179	3749.0125	0.001871	1.591
	224402.6231	-1.031330	4.5597	-0.000875	-0.030
43°35'	83319.8207	30.861269	3749.1247	0.001850	1.590
	224340.7433	-1.031649	4.5072	-0.000875	-0.030
43°36'	85171.4968	30.861359	3749.2357	0.001828	1.589
	224278.8444	-1.031967	4.4547	-0.000874	-0.030
43°37'	87023.1784	30.861450	3749.3454	0.001807	1.587
	224216.9263	-1.032285	4.4023	-0.000874	-0.030
43°38'	88874.8654	30.861540	3749.4538	0.001786	1.586
	224154.9892	-1.032603	4.3499	-0.000873	-0.030
43°39'	90726.5578	30.861630	3749.5610	0.001765	1.585
	224093.0330	-1.032921	4.2975	-0.000873	-0.030
43°40'	92578.2556	30.861721	3749.6669	0.001744	1.584
	224031.0578	-1.033239	4.2451	-0.000872	-0.030
43°41'	94429.9588	30.861811	3749.7715	0.001723	1.582
	223969.0634	-1.033557	4.1928	-0.000872	-0.030
43°42'	96281.6675	30.861901	3749.8749	0.001701	1.581
	223907.0500	-1.033874	4.1404	-0.000872	-0.030
43°43'	98133.3816	30.861992	3749.9770	0.001680	1.580
	223845.0176	-1.034192	4.0882	-0.000871	-0.030
43°44'	99985.1011	30.862082	3750.0778	0.001659	1.579
	223782.9661	-1.034509	4.0359	-0.000871	-0.030
43°45'	101836.8260	30.862172	3750.1773	0.001638	1.577
	223720.8955	-1.034827	3.9837	-0.000870	-0.030
43°46'	103688.5564	30.862263	3750.2756	0.001617	1.576
	223658.8059	-1.035144	3.9314	-0.000870	-0.030
43°47'	105540.2921	30.862353	3750.3726	0.001596	1.575
	223596.6972	-1.035462	3.8793	-0.000869	-0.030
43°48'	107392.0333	30.862444	3750.4684	0.001575	1.574
	223534.5695	-1.035779	3.8271	-0.000869	-0.030
43°49'	109243.7799	30.862534	3750.5628	0.001553	1.572
	223472.4228	-1.036096	3.7750	-0.000868	-0.030
43°50'	111095.5320	30.862624	3750.6561	0.001532	1.571
	223410.2571	-1.036413	3.7229	-0.000868	-0.030
43°51'	112947.2894	30.862715	3750.7480	0.001511	1.570
	223348.0723	-1.036730	3.6708	-0.000867	-0.030
43°52'	114799.0523	30.862805	3750.8387	0.001490	1.569
	223285.8685	-1.037047	3.6187	-0.000867	-0.030
43°53'	116650.8206	30.862895	3750.9281	0.001469	1.567
	223223.6457	-1.037363	3.5667	-0.000867	-0.030
43°54'	118502.5943	30.862986	3751.0162	0.001448	1.566
	223161.4039	-1.037680	3.5147	-0.000866	-0.030
43°55'	120354.3735	30.863076	3751.1030	0.001427	1.565
	223099.1431	-1.037996	3.4628	-0.000866	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°56'	122206.1581	30.863167	3751.1886	0.001405	1.564
	223036.8633	-1.038313	3.4108	-0.000865	-0.030
43°57'	124057.9480	30.863257	3751.2730	0.001384	1.562
	222974.5646	-1.038629	3.3589	-0.000865	-0.030
43°58'	125909.7435	30.863347	3751.3560	0.001363	1.561
	222912.2468	-1.038946	3.3070	-0.000864	-0.030
43°59'	127761.5443	30.863438	3751.4378	0.001342	1.560
	222849.9101	-1.039262	3.2552	-0.000864	-0.030
44° 0'	129613.3506	30.863528	3751.5183	0.001321	1.559
	222787.5543	-1.039578	3.2033	-0.000863	-0.030
44° 1'	131465.1622	30.863618	3751.5976	0.001300	1.557
	222725.1797	-1.039894	3.1515	-0.000863	-0.030
44° 2'	133316.9793	30.863709	3751.6755	0.001278	1.556
	222662.7860	-1.040210	3.0998	-0.000862	-0.030
44° 3'	135168.8019	30.863799	3751.7522	0.001257	1.555
	222600.3734	-1.040526	3.0480	-0.000862	-0.030
44° 4'	137020.6298	30.863890	3751.8277	0.001236	1.553
	222537.9418	-1.040842	2.9963	-0.000862	-0.030
44° 5'	138872.4632	30.863980	3751.9018	0.001215	1.552
	222475.4913	-1.041157	2.9446	-0.000861	-0.030
44° 6'	140724.3020	30.864070	3751.9747	0.001194	1.551
	222413.0219	-1.041473	2.8929	-0.000861	-0.030
44° 7'	142576.1462	30.864161	3752.0464	0.001173	1.550
	222350.5335	-1.041789	2.8413	-0.000860	-0.030
44° 8'	144427.9959	30.864251	3752.1167	0.001151	1.548
	222288.0262	-1.042104	2.7897	-0.000860	-0.030
44° 9'	146279.8510	30.864342	3752.1858	0.001130	1.547
	222225.4999	-1.042419	2.7381	-0.000859	-0.030
44°10'	148131.7115	30.864432	3752.2536	0.001109	1.546
	222162.9548	-1.042735	2.6865	-0.000859	-0.030
44°11'	149983.5774	30.864522	3752.3202	0.001088	1.545
	222100.3907	-1.043050	2.6350	-0.000858	-0.030
44°12'	151835.4487	30.864613	3752.3854	0.001067	1.543
	222037.8077	-1.043365	2.5835	-0.000858	-0.030
44°13'	153687.3255	30.864703	3752.4494	0.001046	1.542
	221975.2058	-1.043680	2.5320	-0.000857	-0.030
44°14'	155539.2077	30.864794	3752.5122	0.001024	1.541
	221912.5850	-1.043995	2.4806	-0.000857	-0.030
44°15'	157391.0953	30.864884	3752.5736	0.001003	1.540
	221849.9453	-1.044310	2.4292	-0.000857	-0.030
44°16'	159242.9884	30.864975	3752.6338	0.000982	1.538
	221787.2867	-1.044625	2.3778	-0.000856	-0.030
44°17'	161094.8869	30.865065	3752.6928	0.000961	1.537
	221724.6092	-1.044939	2.3264	-0.000856	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°18'	162946.7908	30.865155	3752.7504	0.000940	1.536
	221661.9129	-1.045254	2.2751	-0.000855	-0.030
44°19'	164798.7001	30.865246	3752.8068	0.000919	1.534
	221599.1976	-1.045568	2.2238	-0.000855	-0.030
44°20'	166650.6148	30.865336	3752.8619	0.000897	1.533
	221536.4635	-1.045883	2.1725	-0.000854	-0.030
44°21'	168502.5350	30.865427	3752.9158	0.000876	1.532
	221473.7106	-1.046197	2.1212	-0.000854	-0.030
44°22'	170354.4606	30.865517	3752.9684	0.000855	1.531
	221410.9387	-1.046511	2.0700	-0.000853	-0.030
44°23'	172206.3916	30.865608	3753.0197	0.000834	1.529
	221348.1480	-1.046826	2.0188	-0.000853	-0.030
44°24'	174058.3281	30.865698	3753.0697	0.000813	1.528
	221285.3385	-1.047140	1.9677	-0.000852	-0.030
44°25'	175910.2700	30.865788	3753.1185	0.000792	1.527
	221222.5101	-1.047454	1.9165	-0.000852	-0.030
44°26'	177762.2173	30.865879	3753.1660	0.000770	1.525
	221159.6629	-1.047767	1.8654	-0.000851	-0.030
44°27'	179614.1700	30.865969	3753.2122	0.000749	1.524
	221096.7969	-1.048081	1.8143	-0.000851	-0.031
44°28'	181466.1282	30.866060	3753.2572	0.000728	1.523
	221033.9120	-1.048395	1.7633	-0.000850	-0.031
44°29'	183318.0917	30.866150	3753.3008	0.000707	1.522
	220971.0083	-1.048709	1.7122	-0.000850	-0.031
44°30'	185170.0608	30.866241	3753.3433	0.000686	1.520
	220908.0858	-1.049022	1.6612	-0.000850	-0.031
44°31'	187022.0352	30.866331	3753.3844	0.000665	1.519
	220845.1445	-1.049336	1.6103	-0.000849	-0.031
44°32'	188874.0151	30.866422	3753.4243	0.000643	1.518
	220782.1843	-1.049649	1.5593	-0.000849	-0.031
44°33'	190726.0003	30.866512	3753.4629	0.000622	1.517
	220719.2054	-1.049962	1.5084	-0.000848	-0.031
44°34'	192577.9911	30.866602	3753.5002	0.000601	1.515
	220656.2076	-1.050276	1.4575	-0.000848	-0.031
44°35'	194429.9872	30.866693	3753.5363	0.000580	1.514
	220593.1911	-1.050589	1.4067	-0.000847	-0.031
44°36'	196281.9888	30.866783	3753.5711	0.000559	1.513
	220530.1558	-1.050902	1.3559	-0.000847	-0.031
44°37'	198133.9958	30.866874	3753.6046	0.000538	1.511
	220467.1017	-1.051215	1.3051	-0.000846	-0.031
44°38'	199986.0082	30.866964	3753.6369	0.000516	1.510
	220404.0288	-1.051527	1.2543	-0.000846	-0.031
44°39'	201838.0261	30.867055	3753.6678	0.000495	1.509
	220340.9372	-1.051840	1.2035	-0.000845	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°40'	203690.0493	30.867145	3753.6976	0.000474	1.508
	220277.8268	-1.052153	1.1528	-0.000845	-0.031
44°41'	205542.0780	30.867236	3753.7260	0.000453	1.506
	220214.6976	-1.052465	1.1021	-0.000844	-0.031
44°42'	207394.1122	30.867326	3753.7532	0.000432	1.505
	220151.5497	-1.052778	1.0515	-0.000844	-0.031
44°43'	209246.1517	30.867416	3753.7791	0.000411	1.504
	220088.3830	-1.053090	1.0008	-0.000843	-0.031
44°44'	211098.1967	30.867507	3753.8037	0.000389	1.502
	220025.1976	-1.053403	0.9502	-0.000843	-0.031
44°45'	212950.2472	30.867597	3753.8271	0.000368	1.501
	219961.9934	-1.053715	0.8997	-0.000842	-0.031
44°46'	214802.3030	30.867688	3753.8491	0.000347	1.500
	219898.7705	-1.054027	0.8491	-0.000842	-0.031
44°47'	216654.3643	30.867778	3753.8700	0.000326	1.499
	219835.5289	-1.054339	0.7986	-0.000841	-0.031
44°48'	218506.4310	30.867869	3753.8895	0.000305	1.497
	219772.2685	-1.054651	0.7481	-0.000841	-0.031
44°49'	220358.5031	30.867959	3753.9078	0.000283	1.496
	219708.9894	-1.054963	0.6977	-0.000840	-0.031
44°50'	222210.5807	30.868050	3753.9248	0.000262	1.495
	219645.6917	-1.055275	0.6472	-0.000840	-0.031
44°51'	224062.6636	30.868140	3753.9405	0.000241	1.493
	219582.3752	-1.055587	0.5968	-0.000840	-0.031
44°52'	225914.7521	30.868231	3753.9550	0.000220	1.492
	219519.0400	-1.055898	0.5465	-0.000839	-0.031
44°53'	227766.8459	30.868321	3753.9682	0.000199	1.491
	219455.6861	-1.056210	0.4961	-0.000839	-0.031
44°54'	229618.9452	30.868412	3753.9801	0.000178	1.490
	219392.3135	-1.056521	0.4458	-0.000838	-0.031
44°55'	231471.0499	30.868502	3753.9908	0.000156	1.488
	219328.9222	-1.056833	0.3955	-0.000838	-0.031
44°56'	233323.1600	30.868593	3754.0002	0.000135	1.487
	219265.5123	-1.057144	0.3453	-0.000837	-0.031
44°57'	235175.2755	30.868683	3754.0083	0.000114	1.486
	219202.0836	-1.057455	0.2951	-0.000837	-0.031
44°58'	237027.3965	30.868773	3754.0151	0.000093	1.484
	219138.6363	-1.057766	0.2449	-0.000836	-0.031
44°59'	238879.5229	30.868864	3754.0207	0.000072	1.483
	219075.1704	-1.058077	0.1947	-0.000836	-0.031
45° 0'	240731.6548	30.868954	3754.0250	0.000051	1.482
	219011.6857	-1.058388	0.1446	-0.000835	-0.031
45° 1'	242583.7920	30.869045	3754.0280	0.000029	1.480
	218948.1825	-1.058699	0.0944	-0.000835	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE WEST — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45° 2'	244435.9347	30.869135	3754.0298	0.000008	1.479
	218884.6605	-1.059010	0.0444	-0.000834	-0.031
45° 3'	246288.0828	30.869226	3754.0303	-0.000013	1.478
	218821.1199	-1.059320	-0.0057	-0.000834	-0.031
45° 4'	248140.2364	30.869316	3754.0295	-0.000034	1.477
	218757.5607	-1.059631	-0.0557	-0.000833	-0.031
45° 5'	249992.3954	30.869407	3754.0275	-0.000055	1.475
	218693.9829	-1.059941	-0.1057	-0.000833	-0.031
45° 6'	251844.5598	30.869497	3754.0241	-0.000077	1.474
	218630.3864	-1.060252	-0.1557	-0.000832	-0.031
45° 7'	253696.7296	30.869588	3754.0195	-0.000098	1.473
	218566.7713	-1.060562	-0.2056	-0.000832	-0.031
45° 8'	255548.9049	30.869678	3754.0137	-0.000119	1.471
	218503.1375	-1.060872	-0.2555	-0.000831	-0.031
45° 9'	257401.0856	30.869769	3754.0066	-0.000140	1.470
	218439.4852	-1.061182	-0.3054	-0.000831	-0.031
45°10'	259253.2717	30.869859	3753.9982	-0.000161	1.469
	218375.8142	-1.061493	-0.3552	-0.000830	-0.031
45°11'	261105.4632	30.869950	3753.9885	-0.000182	1.467
	218312.1247	-1.061803	-0.4050	-0.000830	-0.031
45°12'	262957.6602	30.870040	3753.9775	-0.000204	1.466
	218248.4165	-1.062112	-0.4548	-0.000829	-0.031
45°13'	264809.8626	30.870131	3753.9653	-0.000225	1.465
	218184.6898	-1.062422	-0.5046	-0.000829	-0.031
45°14'	266662.0704	30.870221	3753.9518	-0.000246	1.464
	218120.9445	-1.062732	-0.5543	-0.000828	-0.031
45°15'	268514.2837	30.870311	3753.9371	-0.000267	1.462
	218057.1806	-1.063041	-0.6040	-0.000828	-0.031
45°16'	270366.5024	30.870402	3753.9210	-0.000288	1.461
	217993.3981	-1.063351	-0.6537	-0.000827	-0.031
45°17'	272218.7265	30.870492	3753.9038	-0.000309	1.460
	217929.5970	-1.063660	-0.7033	-0.000827	-0.031
45°18'	274070.9560	30.870583	3753.8852	-0.000331	1.458
	217865.7774	-1.063970	-0.7529	-0.000826	-0.031
45°19'	275923.1910	30.870673	3753.8653	-0.000352	1.457
	217801.9392	-1.064279	-0.8025	-0.000826	-0.031
45°20'	277775.4314	30.870764	3753.8442	-0.000373	1.456
	217738.0825	-1.064588	-0.8521	-0.000825	-0.031
45°21'	279627.6773	30.870854	3753.8219	-0.000394	1.454
	217674.2072	-1.064897	-0.9016	-0.000825	-0.031
45°22'	281479.9285	30.870945	3753.7982	-0.000415	1.453
	217610.3133	-1.065206	-0.9511	-0.000824	-0.031
45°23'	283332.1852	30.871035	3753.7733	-0.000437	1.452
	217546.4010	-1.065515	-1.0005	-0.000824	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45°24'	285184.4473	30.871126	3753.7471	-0.000458	1.451
	217482.4700	-1.065824	-1.0500	-0.000823	-0.031
45°25'	287036.7149	30.871216	3753.7196	-0.000479	1.449
	217418.5206	-1.066133	-1.0994	-0.000823	-0.031
45°26'	288888.9878	30.871307	3753.6909	-0.000500	1.448
	217354.5526	-1.066441	-1.1487	-0.000822	-0.031
45°27'	290741.2662	30.871397	3753.6609	-0.000521	1.447
	217290.5662	-1.066750	-1.1981	-0.000822	-0.031
45°28'	292593.5501	30.871488	3753.6296	-0.000542	1.445
	217226.5612	-1.067058	-1.2474	-0.000821	-0.031
45°29'	294445.8393	30.871578	3753.5971	-0.000564	1.444
	217162.5377	-1.067367	-1.2967	-0.000821	-0.031
45°30'	296298.1340	30.871669	3753.5633	-0.000585	1.443
	217098.4957	-1.067675	-1.3459	-0.000820	-0.031
45°31'	298150.4341	30.871759	3753.5282	-0.000606	1.441
	217034.4352	-1.067983	-1.3951	-0.000820	-0.031
45°32'	300002.7397	30.871850	3753.4918	-0.000627	1.440
	216970.3562	-1.068291	-1.4443	-0.000819	-0.031
45°33'	301855.0506	30.871940	3753.4542	-0.000648	1.439
	216906.2587	-1.068599	-1.4935	-0.000819	-0.031
45°34'	303707.3670	30.872030	3753.4153	-0.000669	1.437
	216842.1427	-1.068907	-1.5426	-0.000818	-0.031
45°35'	305559.6889	30.872121	3753.3751	-0.000691	1.436
	216778.0083	-1.069215	-1.5917	-0.000818	-0.031
45°36'	307412.0161	30.872211	3753.3337	-0.000712	1.435
	216713.8554	-1.069523	-1.6408	-0.000817	-0.031
45°37'	309264.3488	30.872302	3753.2910	-0.000733	1.434
	216649.6840	-1.069831	-1.6899	-0.000817	-0.031
45°38'	311116.6869	30.872392	3753.2470	-0.000754	1.432
	216585.4942	-1.070138	-1.7389	-0.000816	-0.031
45°39'	312969.0305	30.872483	3753.2017	-0.000775	1.431
	216521.2859	-1.070446	-1.7878	-0.000816	-0.031
45°40'	314821.3794	30.872573	3753.1552	-0.000797	1.430
	216457.0591	-1.070753	-1.8368	-0.000815	-0.031
45°41'	316673.7338	30.872664	3753.1074	-0.000818	1.428
	216392.8140	-1.071060	-1.8857	-0.000815	-0.031
45°42'	318526.0936	30.872754	3753.0584	-0.000839	1.427
	216328.5503	-1.071368	-1.9346	-0.000814	-0.031
45°43'	320378.4589	30.872845	3753.0080	-0.000860	1.426
	216264.2683	-1.071675	-1.9835	-0.000814	-0.031
45°44'	322230.8296	30.872935	3752.9564	-0.000881	1.424
	216199.9678	-1.071982	-2.0323	-0.000813	-0.031
45°45'	324083.2057	30.873026	3752.9036	-0.000902	1.423
	216135.6489	-1.072289	-2.0811	-0.000813	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45°46'	325935.5872	30.873116	3752.8494	-0.000924	1.422
	216071.3116	-1.072596	-2.1299	-0.000812	-0.031
45°47'	327787.9742	30.873206	3752.7940	-0.000945	1.420
	216006.9559	-1.072902	-2.1786	-0.000812	-0.031
45°48'	329640.3665	30.873297	3752.7373	-0.000966	1.419
	215942.5817	-1.073209	-2.2273	-0.000811	-0.031
45°49'	331492.7644	30.873387	3752.6794	-0.000987	1.418
	215878.1892	-1.073516	-2.2760	-0.000811	-0.031
45°50'	333345.1676	30.873478	3752.6201	-0.001008	1.416
	215813.7783	-1.073822	-2.3246	-0.000810	-0.031
45°51'	335197.5763	30.873568	3752.5597	-0.001029	1.415
	215749.3489	-1.074129	-2.3732	-0.000810	-0.031
45°52'	337049.9904	30.873659	3752.4979	-0.001051	1.414
	215684.9012	-1.074435	-2.4218	-0.000809	-0.031
45°53'	338902.4099	30.873749	3752.4349	-0.001072	1.412
	215620.4351	-1.074741	-2.4704	-0.000809	-0.031
45°54'	340754.8348	30.873840	3752.3705	-0.001093	1.411
	215555.9507	-1.075047	-2.5189	-0.000808	-0.031
45°55'	342607.2652	30.873930	3752.3050	-0.001114	1.410
	215491.4478	-1.075353	-2.5674	-0.000808	-0.031
45°56'	344459.7010	30.874021	3752.2381	-0.001135	1.409
	215426.9266	-1.075659	-2.6159	-0.000807	-0.031
45°57'	346312.1423	30.874111	3752.1700	-0.001156	1.407
	215362.3871	-1.075965	-2.6643	-0.000807	-0.031
45°58'	348164.5889	30.874201	3752.1006	-0.001178	1.406
	215297.8292	-1.076271	-2.7127	-0.000806	-0.031
45°59'	350017.0410	30.874292	3752.0300	-0.001199	1.405
	215233.2529	-1.076577	-2.7611	-0.000806	-0.031
46° 0'	351869.4985	30.874382	3751.9580	-0.001220	1.403
	215168.6583	-1.076882	-2.8094	-0.000805	-0.031
46° 1'	353721.9614	30.874473	3751.8848	-0.001241	1.402
	215104.0454	-1.077188	-2.8577	-0.000805	-0.031
46° 2'	355574.4298	30.874563	3751.8104	-0.001262	1.401
	215039.4141	-1.077493	-2.9060	-0.000804	-0.031
46° 3'	357426.9036	30.874654	3751.7346	-0.001283	1.399
	214974.7645	-1.077799	-2.9542	-0.000804	-0.031
46° 4'	359279.3828	30.874744	3751.6576	-0.001305	1.398
	214910.0966	-1.078104	-3.0025	-0.000803	-0.031
46° 5'	361131.8675	30.874834	3751.5794	-0.001326	1.397
	214845.4104	-1.078409	-3.0506	-0.000803	-0.031
46° 6'	362984.3575	30.874925	3751.4998	-0.001347	1.395
	214780.7058	-1.078714	-3.0988	-0.000802	-0.031
46° 7'	364836.8530	30.875015	3751.4190	-0.001368	1.394
	214715.9830	-1.079019	-3.1469	-0.000802	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
46° 8'	366689.3539	30.875106	3751.3369	-0.001389	1.393
	214651.2418	-1.079324	-3.1950	-0.000801	-0.031
46° 9'	368541.8603	30.875196	3751.2536	-0.001410	1.391
	214586.4824	-1.079629	-3.2431	-0.000800	-0.031
46°10'	370394.3721	30.875287	3751.1689	-0.001432	1.390
	214521.7047	-1.079933	-3.2911	-0.000800	-0.031
46°11'	372246.8893	30.875377	3751.0830	-0.001453	1.389
	214456.9087	-1.080238	-3.3391	-0.000799	-0.031
46°12'	374099.4119	30.875467	3750.9959	-0.001474	1.387
	214392.0944	-1.080543	-3.3871	-0.000799	-0.031
46°13'	375951.9399	30.875558	3750.9074	-0.001495	1.386
	214327.2618	-1.080847	-3.4350	-0.000798	-0.031
46°14'	377804.4734	30.875648	3750.8177	-0.001516	1.385
	214262.4110	-1.081151	-3.4829	-0.000798	-0.031
46°15'	379657.0123	30.875739	3750.7267	-0.001537	1.383
	214197.5419	-1.081456	-3.5308	-0.000797	-0.031
46°16'	381509.5566	30.875829	3750.6345	-0.001559	1.382
	214132.6546	-1.081760	-3.5786	-0.000797	-0.031
46°17'	383362.1064	30.875920	3750.5410	-0.001580	1.381
	214067.7490	-1.082064	-3.6264	-0.000796	-0.031
46°18'	385214.6615	30.876010	3750.4462	-0.001601	1.379
	214002.8251	-1.082368	-3.6742	-0.000796	-0.031
46°19'	387067.2221	30.876100	3750.3501	-0.001622	1.378
	213937.8830	-1.082672	-3.7220	-0.000795	-0.031
46°20'	388919.7882	30.876191	3750.2528	-0.001643	1.377
	213872.9227	-1.082976	-3.7697	-0.000795	-0.031
46°21'	390772.3596	30.876281	3750.1542	-0.001664	1.375
	213807.9442	-1.083279	-3.8174	-0.000794	-0.031
46°22'	392624.9365	30.876372	3750.0544	-0.001686	1.374
	213742.9474	-1.083583	-3.8650	-0.000794	-0.031
46°23'	394477.5188	30.876462	3749.9532	-0.001707	1.373
	213677.9324	-1.083887	-3.9126	-0.000793	-0.031
46°24'	396330.1065	30.876552	3749.8508	-0.001728	1.371
	213612.8992	-1.084190	-3.9602	-0.000793	-0.031
46°25'	398182.6996	30.876643	3749.7472	-0.001749	1.370
	213547.8478	-1.084494	-4.0078	-0.000792	-0.031
46°26'	400035.2982	30.876733	3749.6422	-0.001770	1.369
	213482.7782	-1.084797	-4.0553	-0.000792	-0.031
46°27'	401887.9022	30.876824	3749.5360	-0.001791	1.367
	213417.6904	-1.085100	-4.1028	-0.000791	-0.031
46°28'	403740.5116	30.876914	3749.4285	-0.001812	1.366
	213352.5844	-1.085403	-4.1503	-0.000791	-0.031
46°29'	405593.1265	30.877004	3749.3198	-0.001834	1.365
	213287.4602	-1.085706	-4.1977	-0.000790	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE WEST Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
46°30'	407445.7467	30.877095	3749.2098	-0.001855	1.363
	213222.3178	-1.086009	-4.2451	-0.000789	-0.031
46°31'	409298.3724	30.877185	3749.0985	-0.001876	1.362
	213157.1573	-1.086312	-4.2925	-0.000789	-0.031
46°32'	411151.0035	30.877276	3748.9859	-0.001897	1.361
	213091.9786	-1.086615	-4.3398	-0.000788	-0.031
46°33'	413003.6400	30.877366	3748.8721	-0.001918	1.359
	213026.7817	-1.086917	-4.3871	-0.000788	-0.031
46°34'	414856.2820	30.877456	3748.7570	-0.001939	1.358
	212961.5667	-1.087220	-4.4344	-0.000787	-0.031
46°35'	416708.9294	30.877547	3748.6406	-0.001961	1.357
	212896.3335	-1.087522	-4.4817	-0.000787	-0.031
46°36'	418561.5822	30.877637	3748.5230	-0.001982	1.355
	212831.0822	-1.087825	-4.5289	-0.000786	-0.031
46°37'	420414.2404	30.877727	3748.4041	-0.002003	1.354
	212765.8127	-1.088127	-4.5760	-0.000786	-0.031
46°38'	422266.9040	30.877818	3748.2839	-0.002024	1.353
	212700.5251	-1.088429	-4.6232	-0.000785	-0.031
46°39'	424119.5731	30.877908	3748.1625	-0.002045	1.351
	212635.2193	-1.088731	-4.6703	-0.000785	-0.031
46°40'	425972.2476	30.877998	3748.0398	-0.002066	1.350
	212569.8954	-1.089033	-4.7174	-0.000784	-0.031
46°41'	427824.9275	30.878089	3747.9158	-0.002087	1.349
	212504.5534	-1.089335	-4.7644	-0.000784	-0.031
46°42'	429677.6128	30.878179	3747.7905	-0.002109	1.347
	212439.1933	-1.089637	-4.8115	-0.000783	-0.031
46°43'	431530.3036	30.878270	3747.6640	-0.002130	1.346
	212373.8151	-1.089939	-4.8584	-0.000783	-0.031
46°44'	433382.9997	30.878360	3747.5362	-0.002151	1.345
	212308.4188	-1.090240	-4.9054	-0.000782	-0.031
46°45'	435235.7013	30.878450	3747.4072	-0.002172	1.343
	212243.0043	-1.090542	-4.9523	-0.000782	-0.031
46°46'	437088.4084	30.878541	3747.2769	-0.002193	1.342
	212177.5718	-1.090843	-4.9992	-0.000781	-0.031
46°47'	438941.1208	30.878631	3747.1453	-0.002214	1.341
	212112.1212	-1.091145	-5.0461	-0.000780	-0.031
46°48'	440793.8386	30.878721	3747.0124	-0.002235	1.339
	212046.6525	-1.091446	-5.0929	-0.000780	-0.031
46°49'	442646.5619	30.878812	3746.8783	-0.002257	1.338
	211981.1658	-1.091747	-5.1397	-0.000779	-0.031
46°50'	444499.2906	30.878902	3746.7429	-0.002278	1.337
	211915.6609	-1.092048	-5.1865	-0.000779	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0020	0.0023

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°50'	0.0000	30.857208	2351.7125	0.022722	36.281
	44032.2338	0.197280	489.6684	0.008190	10.323
42°51'	1851.4325	30.857298	2353.0758	0.022734	36.316
	44044.0706	0.197448	490.1598	0.008202	10.341
42°52'	3702.8704	30.857388	2354.4398	0.022746	36.352
	44055.9175	0.197617	490.6519	0.008213	10.359
42°53'	5554.3137	30.857479	2355.8046	0.022758	36.387
	44067.7745	0.197786	491.1447	0.008225	10.378
42°54'	7405.7624	30.857569	2357.1701	0.022770	36.422
	44079.6417	0.197955	491.6382	0.008237	10.396
42°55'	9257.2165	30.857659	2358.5363	0.022783	36.458
	44091.5190	0.198124	492.1324	0.008249	10.414
42°56'	11108.6761	30.857749	2359.9033	0.022795	36.493
	44103.4065	0.198294	492.6274	0.008261	10.432
42°57'	12960.1410	30.857839	2361.2710	0.022807	36.529
	44115.3041	0.198463	493.1230	0.008273	10.451
42°58'	14811.6114	30.857929	2362.6394	0.022819	36.565
	44127.2119	0.198633	493.6194	0.008285	10.469
42°59'	16663.0871	30.858020	2364.0085	0.022832	36.600
	44139.1299	0.198803	494.1165	0.008297	10.487
43° 0'	18514.5683	30.858110	2365.3784	0.022844	36.636
	44151.0581	0.198973	494.6144	0.008309	10.506
43° 1'	20366.0549	30.858200	2366.7491	0.022856	36.672
	44162.9965	0.199144	495.1129	0.008321	10.524
43° 2'	22217.5469	30.858290	2368.1204	0.022868	36.708
	44174.9451	0.199314	495.6122	0.008333	10.543
43° 3'	24069.0443	30.858380	2369.4925	0.022881	36.744
	44186.9040	0.199485	496.1122	0.008345	10.561
43° 4'	25920.5471	30.858471	2370.8654	0.022893	36.780
	44198.8730	0.199656	496.6129	0.008357	10.580
43° 5'	27772.0554	30.858561	2372.2390	0.022906	36.816
	44210.8524	0.199827	497.1143	0.008370	10.598
43° 6'	29623.5690	30.858651	2373.6133	0.022918	36.852
	44222.8420	0.199998	497.6165	0.008382	10.617
43° 7'	31475.0881	30.858741	2374.9884	0.022930	36.888
	44234.8418	0.200169	498.1194	0.008394	10.636
43° 8'	33326.6126	30.858832	2376.3642	0.022943	36.924
	44246.8520	0.200341	498.6231	0.008406	10.654
43° 9'	35178.1425	30.858922	2377.7408	0.022955	36.960
	44258.8724	0.200512	499.1274	0.008418	10.673
43°10'	37029.6778	30.859012	2379.1181	0.022968	36.996
	44270.9032	0.200684	499.6325	0.008431	10.692
43°11'	38881.2185	30.859102	2380.4961	0.022980	37.032
	44282.9442	0.200856	500.1384	0.008443	10.711

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°12'	40732.7646	30.859193	2381.8749	0.022992	37.068
	44294.9956	0.201028	500.6449	0.008455	10.730
43°13'	42584.3162	30.859283	2383.2545	0.023005	37.105
	44307.0573	0.201201	501.1522	0.008467	10.749
43°14'	44435.8732	30.859373	2384.6347	0.023017	37.141
	44319.1294	0.201373	501.6603	0.008480	10.768
43°15'	46287.4355	30.859463	2386.0158	0.023030	37.178
	44331.2118	0.201546	502.1691	0.008492	10.787
43°16'	48139.0033	30.859554	2387.3976	0.023042	37.214
	44343.3045	0.201719	502.6786	0.008504	10.806
43°17'	49990.5766	30.859644	2388.7801	0.023055	37.251
	44355.4077	0.201892	503.1889	0.008517	10.825
43°18'	51842.1552	30.859734	2390.1634	0.023067	37.287
	44367.5212	0.202065	503.6999	0.008529	10.844
43°19'	53693.7392	30.859824	2391.5475	0.023080	37.324
	44379.6451	0.202239	504.2116	0.008542	10.863
43°20'	55545.3287	30.859915	2392.9323	0.023093	37.360
	44391.7795	0.202413	504.7241	0.008554	10.882
43°21'	57396.9236	30.860005	2394.3178	0.023105	37.397
	44403.9242	0.202586	505.2374	0.008567	10.901
43°22'	59248.5239	30.860095	2395.7041	0.023118	37.434
	44416.0794	0.202760	505.7514	0.008579	10.921
43°23'	61100.1296	30.860185	2397.0912	0.023130	37.471
	44428.2450	0.202935	506.2661	0.008592	10.940
43°24'	62951.7407	30.860276	2398.4790	0.023143	37.507
	44440.4211	0.203109	506.7816	0.008604	10.960
43°25'	64803.3572	30.860366	2399.8676	0.023156	37.544
	44452.6076	0.203283	507.2979	0.008617	10.979
43°26'	66654.9792	30.860456	2401.2569	0.023168	37.581
	44464.8047	0.203458	507.8149	0.008629	10.998
43°27'	68506.6066	30.860547	2402.6470	0.023181	37.618
	44477.0121	0.203633	508.3327	0.008642	11.018
43°28'	70358.2394	30.860637	2404.0379	0.023194	37.655
	44489.2301	0.203808	508.8512	0.008655	11.037
43°29'	72209.8776	30.860727	2405.4295	0.023206	37.692
	44501.4586	0.203983	509.3705	0.008667	11.057
43°30'	74061.5212	30.860818	2406.8219	0.023219	37.729
	44513.6976	0.204159	509.8905	0.008680	11.077
43°31'	75913.1703	30.860908	2408.2150	0.023232	37.767
	44525.9471	0.204334	510.4113	0.008693	11.096
43°32'	77764.8247	30.860998	2409.6090	0.023245	37.804
	44538.2072	0.204510	510.9329	0.008705	11.116
43°33'	79616.4846	30.861088	2411.0036	0.023257	37.841
	44550.4778	0.204686	511.4552	0.008718	11.136

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°34'	81468.1499	30.861179	2412.3991	0.023270	37.878
	44562.7589	0.204862	511.9783	0.008731	11.156
43°35'	83319.8207	30.861269	2413.7953	0.023283	37.916
	44575.0507	0.205038	512.5022	0.008744	11.175
43°36'	85171.4968	30.861359	2415.1922	0.023296	37.953
	44587.3530	0.205215	513.0268	0.008757	11.195
43°37'	87023.1784	30.861450	2416.5900	0.023308	37.990
	44599.6659	0.205392	513.5522	0.008769	11.215
43°38'	88874.8654	30.861540	2417.9885	0.023321	38.028
	44611.9894	0.205569	514.0784	0.008782	11.235
43°39'	90726.5578	30.861630	2419.3878	0.023334	38.065
	44624.3235	0.205746	514.6053	0.008795	11.255
43°40'	92578.2556	30.861721	2420.7878	0.023347	38.103
	44636.6682	0.205923	515.1330	0.008808	11.275
43°41'	94429.9588	30.861811	2422.1886	0.023360	38.141
	44649.0236	0.206100	515.6615	0.008821	11.295
43°42'	96281.6675	30.861901	2423.5902	0.023373	38.178
	44661.3896	0.206278	516.1908	0.008834	11.316
43°43'	98133.3816	30.861992	2424.9926	0.023386	38.216
	44673.7663	0.206456	516.7208	0.008847	11.336
43°44'	99985.1011	30.862082	2426.3958	0.023399	38.254
	44686.1536	0.206634	517.2516	0.008860	11.356
43°45'	101836.8260	30.862172	2427.7997	0.023412	38.292
	44698.5516	0.206812	517.7832	0.008873	11.376
43°46'	103688.5564	30.862263	2429.2044	0.023425	38.330
	44710.9603	0.206990	518.3156	0.008886	11.397
43°47'	105540.2921	30.862353	2430.6098	0.023437	38.368
	44723.3797	0.207169	518.8488	0.008899	11.417
43°48'	107392.0333	30.862444	2432.0161	0.023450	38.405
	44735.8099	0.207347	519.3828	0.008912	11.437
43°49'	109243.7799	30.862534	2433.4231	0.023463	38.444
	44748.2507	0.207526	519.9175	0.008925	11.458
43°50'	111095.5320	30.862624	2434.8309	0.023476	38.482
	44760.7023	0.207705	520.4530	0.008939	11.478
43°51'	112947.2894	30.862715	2436.2395	0.023489	38.520
	44773.1646	0.207884	520.9893	0.008952	11.499
43°52'	114799.0523	30.862805	2437.6489	0.023503	38.558
	44785.6377	0.208064	521.5264	0.008965	11.519
43°53'	116650.8206	30.862895	2439.0590	0.023516	38.596
	44798.1215	0.208244	522.0643	0.008978	11.540
43°54'	118502.5943	30.862986	2440.4700	0.023529	38.634
	44810.6161	0.208423	522.6030	0.008991	11.561
43°55'	120354.3735	30.863076	2441.8817	0.023542	38.673
	44823.1215	0.208603	523.1425	0.009005	11.581

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°56'	122206.1581	30.863167	2443.2942	0.023555	38.711
	44835.6377	0.208784	523.6828	0.009018	11.602
43°57'	124057.9480	30.863257	2444.7075	0.023568	38.749
	44848.1647	0.208964	524.2238	0.009031	11.623
43°58'	125909.7435	30.863347	2446.1215	0.023581	38.788
	44860.7026	0.209145	524.7657	0.009045	11.644
43°59'	127761.5443	30.863438	2447.5364	0.023594	38.826
	44873.2512	0.209325	525.3084	0.009058	11.665
44° 0'	129613.3506	30.863528	2448.9521	0.023607	38.865
	44885.8107	0.209506	525.8519	0.009071	11.686
44° 1'	131465.1622	30.863618	2450.3685	0.023621	38.904
	44898.3811	0.209687	526.3961	0.009085	11.707
44° 2'	133316.9793	30.863709	2451.7857	0.023634	38.942
	44910.9624	0.209869	526.9412	0.009098	11.728
44° 3'	135168.8019	30.863799	2453.2038	0.023647	38.981
	44923.5545	0.210050	527.4871	0.009112	11.749
44° 4'	137020.6298	30.863890	2454.6226	0.023660	39.020
	44936.1575	0.210232	528.0338	0.009125	11.770
44° 5'	138872.4632	30.863980	2456.0422	0.023673	39.059
	44948.7714	0.210414	528.5813	0.009139	11.791
44° 6'	140724.3020	30.864070	2457.4626	0.023687	39.097
	44961.3962	0.210596	529.1296	0.009152	11.812
44° 7'	142576.1462	30.864161	2458.8838	0.023700	39.136
	44974.0320	0.210778	529.6788	0.009166	11.834
44° 8'	144427.9959	30.864251	2460.3058	0.023713	39.175
	44986.6786	0.210960	530.2287	0.009179	11.855
44° 9'	146279.8510	30.864342	2461.7286	0.023727	39.214
	44999.3363	0.211143	530.7795	0.009193	11.876
44°10'	148131.7115	30.864432	2463.1522	0.023740	39.253
	45012.0049	0.211326	531.3310	0.009206	11.898
44°11'	149983.5774	30.864522	2464.5766	0.023753	39.292
	45024.6844	0.211509	531.8834	0.009220	11.919
44°12'	151835.4487	30.864613	2466.0018	0.023766	39.332
	45037.3750	0.211692	532.4366	0.009234	11.941
44°13'	153687.3255	30.864703	2467.4278	0.023780	39.371
	45050.0765	0.211876	532.9907	0.009248	11.962
44°14'	155539.2077	30.864794	2468.8545	0.023793	39.410
	45062.7890	0.212059	533.5455	0.009261	11.984
44°15'	157391.0953	30.864884	2470.2821	0.023807	39.449
	45075.5126	0.212243	534.1012	0.009275	12.005
44°16'	159242.9884	30.864975	2471.7105	0.023820	39.489
	45088.2472	0.212427	534.6577	0.009289	12.027
44°17'	161094.8869	30.865065	2473.1397	0.023833	39.528
	45100.9928	0.212611	535.2150	0.009303	12.049

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE WEST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°18'	162946.7908	30.865155	2474.5697	0.023847	39.568
	45113.7495	0.212796	535.7732	0.009316	12.071
44°19'	164798.7001	30.865246	2476.0006	0.023860	39.607
	45126.5172	0.212980	536.3321	0.009330	12.093
44°20'	166650.6148	30.865336	2477.4322	0.023874	39.647
	45139.2960	0.213165	536.8920	0.009344	12.114
44°21'	168502.5350	30.865427	2478.8646	0.023887	39.686
	45152.0859	0.213350	537.4526	0.009358	12.136
44°22'	170354.4606	30.865517	2480.2978	0.023901	39.726
	45164.8869	0.213535	538.0141	0.009372	12.158
44°23'	172206.3916	30.865608	2481.7319	0.023914	39.766
	45177.6990	0.213720	538.5764	0.009386	12.180
44°24'	174058.3281	30.865698	2483.1667	0.023928	39.806
	45190.5222	0.213906	539.1396	0.009400	12.202
44°25'	175910.2700	30.865788	2484.6024	0.023941	39.845
	45203.3565	0.214092	539.7036	0.009414	12.225
44°26'	177762.2173	30.865879	2486.0389	0.023955	39.885
	45216.2020	0.214277	540.2684	0.009428	12.247
44°27'	179614.1700	30.865969	2487.4762	0.023969	39.925
	45229.0587	0.214464	540.8341	0.009442	12.269
44°28'	181466.1282	30.866060	2488.9143	0.023982	39.965
	45241.9265	0.214650	541.4006	0.009456	12.291
44°29'	183318.0917	30.866150	2490.3532	0.023996	40.005
	45254.8055	0.214836	541.9679	0.009470	12.314
44°30'	185170.0608	30.866241	2491.7930	0.024009	40.045
	45267.6957	0.215023	542.5362	0.009484	12.336
44°31'	187022.0352	30.866331	2493.2335	0.024023	40.086
	45280.5971	0.215210	543.1052	0.009498	12.358
44°32'	188874.0151	30.866422	2494.6749	0.024037	40.126
	45293.5097	0.215397	543.6751	0.009513	12.381
44°33'	190726.0003	30.866512	2496.1171	0.024050	40.166
	45306.4335	0.215584	544.2459	0.009527	12.403
44°34'	192577.9911	30.866602	2497.5601	0.024064	40.206
	45319.3686	0.215772	544.8175	0.009541	12.426
44°35'	194429.9872	30.866693	2499.0040	0.024078	40.247
	45332.3149	0.215960	545.3900	0.009555	12.448
44°36'	196281.9888	30.866783	2500.4486	0.024091	40.287
	45345.2725	0.216148	545.9633	0.009570	12.471
44°37'	198133.9958	30.866874	2501.8941	0.024105	40.328
	45358.2413	0.216336	546.5375	0.009584	12.494
44°38'	199986.0082	30.866964	2503.3404	0.024119	40.368
	45371.2215	0.216524	547.1125	0.009598	12.517
44°39'	201838.0261	30.867055	2504.7876	0.024133	40.409
	45384.2129	0.216712	547.6884	0.009613	12.539

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°40'	203690.0493	30.867145	2506.2355	0.024146	40.449
	45397.2156	0.216901	548.2651	0.009627	12.562
44°41'	205542.0780	30.867236	2507.6843	0.024160	40.490
	45410.2297	0.217090	548.8428	0.009641	12.585
44°42'	207394.1122	30.867326	2509.1339	0.024174	40.531
	45423.2551	0.217279	549.4212	0.009656	12.608
44°43'	209246.1517	30.867416	2510.5844	0.024188	40.571
	45436.2918	0.217468	550.0006	0.009670	12.631
44°44'	211098.1967	30.867507	2512.0357	0.024202	40.612
	45449.3399	0.217658	550.5808	0.009685	12.654
44°45'	212950.2472	30.867597	2513.4878	0.024216	40.653
	45462.3994	0.217848	551.1619	0.009699	12.677
44°46'	214802.3030	30.867688	2514.9407	0.024230	40.694
	45475.4703	0.218037	551.7439	0.009714	12.701
44°47'	216654.3643	30.867778	2516.3945	0.024243	40.735
	45488.5525	0.218228	552.3267	0.009729	12.724
44°48'	218506.4310	30.867869	2517.8491	0.024257	40.776
	45501.6462	0.218418	552.9104	0.009743	12.747
44°49'	220358.5031	30.867959	2519.3045	0.024271	40.817
	45514.7512	0.218608	553.4950	0.009758	12.770
44°50'	222210.5807	30.868050	2520.7608	0.024285	40.858
	45527.8677	0.218799	554.0805	0.009772	12.794
44°51'	224062.6636	30.868140	2522.2179	0.024299	40.900
	45540.9957	0.218990	554.6668	0.009787	12.817
44°52'	225914.7521	30.868231	2523.6759	0.024313	40.941
	45554.1351	0.219181	555.2540	0.009802	12.841
44°53'	227766.8459	30.868321	2525.1346	0.024327	40.982
	45567.2859	0.219372	555.8421	0.009817	12.864
44°54'	229618.9452	30.868412	2526.5943	0.024341	41.024
	45580.4483	0.219564	556.4311	0.009831	12.888
44°55'	231471.0499	30.868502	2528.0547	0.024355	41.065
	45593.6221	0.219756	557.0210	0.009846	12.911
44°56'	233323.1600	30.868593	2529.5161	0.024369	41.107
	45606.8075	0.219948	557.6118	0.009861	12.935
44°57'	235175.2755	30.868683	2530.9782	0.024383	41.148
	45620.0043	0.220140	558.2034	0.009876	12.959
44°58'	237027.3965	30.868773	2532.4412	0.024397	41.190
	45633.2127	0.220332	558.7960	0.009891	12.983
44°59'	238879.5229	30.868864	2533.9051	0.024411	41.231
	45646.4326	0.220525	559.3894	0.009906	13.006
45° 0'	240731.6548	30.868954	2535.3697	0.024426	41.273
	45659.6641	0.220717	559.9838	0.009920	13.030
45° 1'	242583.7920	30.869045	2536.8353	0.024440	41.315
	45672.9071	0.220910	560.5790	0.009935	13.054

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE WEST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45° 2'	244435.9347	30.869135	2538.3017	0.024454	41.357
	45686.1617	0.221103	561.1751	0.009950	13.078
45° 3'	246288.0828	30.869226	2539.7689	0.024468	41.399
	45699.4279	0.221297	561.7721	0.009965	13.102
45° 4'	248140.2364	30.869316	2541.2370	0.024482	41.440
	45712.7057	0.221490	562.3701	0.009980	13.126
45° 5'	249992.3954	30.869407	2542.7059	0.024496	41.482
	45725.9952	0.221684	562.9689	0.009996	13.151
45° 6'	251844.5598	30.869497	2544.1757	0.024511	41.525
	45739.2962	0.221878	563.5686	0.010011	13.175
45° 7'	253696.7296	30.869588	2545.6463	0.024525	41.567
	45752.6089	0.222072	564.1692	0.010026	13.199
45° 8'	255548.9049	30.869678	2547.1178	0.024539	41.609
	45765.9332	0.222267	564.7708	0.010041	13.223
45° 9'	257401.0856	30.869769	2548.5901	0.024553	41.651
	45779.2692	0.222461	565.3732	0.010056	13.248
45°10'	259253.2717	30.869859	2550.0633	0.024568	41.693
	45792.6169	0.222656	565.9766	0.010071	13.272
45°11'	261105.4632	30.869950	2551.5374	0.024582	41.736
	45805.9763	0.222851	566.5809	0.010087	13.297
45°12'	262957.6602	30.870040	2553.0123	0.024596	41.778
	45819.3473	0.223046	567.1861	0.010102	13.321
45°13'	264809.8626	30.870131	2554.4881	0.024611	41.820
	45832.7301	0.223242	567.7922	0.010117	13.346
45°14'	266662.0704	30.870221	2555.9647	0.024625	41.863
	45846.1246	0.223437	568.3992	0.010132	13.371
45°15'	268514.2837	30.870311	2557.4422	0.024639	41.905
	45859.5309	0.223633	569.0071	0.010148	13.395
45°16'	270366.5024	30.870402	2558.9206	0.024654	41.948
	45872.9489	0.223829	569.6160	0.010163	13.420
45°17'	272218.7265	30.870492	2560.3998	0.024668	41.991
	45886.3786	0.224026	570.2258	0.010179	13.445
45°18'	274070.9560	30.870583	2561.8799	0.024682	42.033
	45899.8202	0.224222	570.8365	0.010194	13.470
45°19'	275923.1910	30.870673	2563.3608	0.024697	42.076
	45913.2735	0.224419	571.4481	0.010209	13.495
45°20'	277775.4314	30.870764	2564.8426	0.024711	42.119
	45926.7386	0.224616	572.0607	0.010225	13.520
45°21'	279627.6773	30.870854	2566.3253	0.024726	42.162
	45940.2156	0.224813	572.6742	0.010240	13.545
45°22'	281479.9285	30.870945	2567.8088	0.024740	42.205
	45953.7043	0.225010	573.2886	0.010256	13.570
45°23'	283332.1852	30.871035	2569.2932	0.024755	42.248
	45967.2050	0.225208	573.9040	0.010272	13.595

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45°24'	285184.4473	30.871126	2570.7785	0.024769	42.291
	45980.7174	0.225406	574.5203	0.010287	13.620
45°25'	287036.7149	30.871216	2572.2647	0.024784	42.334
	45994.2418	0.225604	575.1375	0.010303	13.645
45°26'	288888.9878	30.871307	2573.7517	0.024798	42.377
	46007.7780	0.225802	575.7557	0.010318	13.671
45°27'	290741.2662	30.871397	2575.2396	0.024813	42.421
	46021.3261	0.226000	576.3748	0.010334	13.696
45°28'	292593.5501	30.871488	2576.7284	0.024827	42.464
	46034.8861	0.226199	576.9948	0.010350	13.722
45°29'	294445.8393	30.871578	2578.2180	0.024842	42.507
	46048.4580	0.226398	577.6158	0.010366	13.747
45°30'	296298.1340	30.871669	2579.7086	0.024857	42.551
	46062.0419	0.226597	578.2377	0.010381	13.773
45°31'	298150.4341	30.871759	2581.2000	0.024871	42.594
	46075.6377	0.226796	578.8606	0.010397	13.798
45°32'	300002.7397	30.871850	2582.6922	0.024886	42.638
	46089.2454	0.226995	579.4845	0.010413	13.824
45°33'	301855.0506	30.871940	2584.1854	0.024901	42.681
	46102.8652	0.227195	580.1092	0.010429	13.850
45°34'	303707.3670	30.872030	2585.6794	0.024915	42.725
	46116.4969	0.227395	580.7350	0.010445	13.875
45°35'	305559.6889	30.872121	2587.1744	0.024930	42.769
	46130.1406	0.227595	581.3617	0.010461	13.901
45°36'	307412.0161	30.872211	2588.6702	0.024945	42.812
	46143.7963	0.227796	581.9893	0.010477	13.927
45°37'	309264.3488	30.872302	2590.1668	0.024959	42.856
	46157.4640	0.227996	582.6179	0.010493	13.953
45°38'	311116.6869	30.872392	2591.6644	0.024974	42.900
	46171.1438	0.228197	583.2475	0.010509	13.979
45°39'	312969.0305	30.872483	2593.1629	0.024989	42.944
	46184.8356	0.228398	583.8780	0.010525	14.005
45°40'	314821.3794	30.872573	2594.6622	0.025004	42.988
	46198.5395	0.228599	584.5095	0.010541	14.031
45°41'	316673.7338	30.872664	2596.1624	0.025019	43.032
	46212.2555	0.228801	585.1419	0.010557	14.058
45°42'	318526.0936	30.872754	2597.6636	0.025033	43.076
	46225.9835	0.229002	585.7754	0.010573	14.084
45°43'	320378.4589	30.872845	2599.1656	0.025048	43.120
	46239.7236	0.229204	586.4097	0.010589	14.110
45°44'	322230.8296	30.872935	2600.6685	0.025063	43.165
	46253.4759	0.229406	587.0451	0.010605	14.137
45°45'	324083.2057	30.873026	2602.1722	0.025078	43.209
	46267.2403	0.229609	587.6814	0.010622	14.163

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0014	-0.0015

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45°46'	325935.5872	30.873116	2603.6769	0.025093	43.253
	46281.0168	0.229811	588.3187	0.010638	14.190
45°47'	327787.9742	30.873206	2605.1825	0.025108	43.298
	46294.8055	0.230014	588.9570	0.010654	14.216
45°48'	329640.3665	30.873297	2606.6890	0.025123	43.342
	46308.6063	0.230217	589.5963	0.010671	14.243
45°49'	331492.7644	30.873387	2608.1963	0.025138	43.387
	46322.4193	0.230420	590.2365	0.010687	14.269
45°50'	333345.1676	30.873478	2609.7046	0.025153	43.431
	46336.2445	0.230624	590.8777	0.010703	14.296
45°51'	335197.5763	30.873568	2611.2138	0.025168	43.476
	46350.0819	0.230827	591.5199	0.010720	14.323
45°52'	337049.9904	30.873659	2612.7238	0.025183	43.521
	46363.9316	0.231031	592.1631	0.010736	14.350
45°53'	338902.4099	30.873749	2614.2348	0.025198	43.566
	46377.7934	0.231235	592.8073	0.010753	14.377
45°54'	340754.8348	30.873840	2615.7467	0.025213	43.610
	46391.6675	0.231440	593.4524	0.010769	14.404
45°55'	342607.2652	30.873930	2617.2594	0.025228	43.655
	46405.5539	0.231644	594.0986	0.010786	14.431
45°56'	344459.7010	30.874021	2618.7731	0.025243	43.700
	46419.4526	0.231849	594.7457	0.010802	14.458
45°57'	346312.1423	30.874111	2620.2877	0.025258	43.745
	46433.3635	0.232054	595.3938	0.010819	14.485
45°58'	348164.5889	30.874201	2621.8031	0.025273	43.790
	46447.2867	0.232259	596.0430	0.010835	14.512
45°59'	350017.0410	30.874292	2623.3195	0.025288	43.836
	46461.2223	0.232464	596.6931	0.010852	14.539
46° 0'	351869.4985	30.874382	2624.8368	0.025303	43.881
	46475.1701	0.232670	597.3442	0.010869	14.567
46° 1'	353721.9614	30.874473	2626.3550	0.025319	43.926
	46489.1303	0.232876	597.9964	0.010886	14.594
46° 2'	355574.4298	30.874563	2627.8741	0.025334	43.971
	46503.1029	0.233082	598.6495	0.010902	14.622
46° 3'	357426.9036	30.874654	2629.3941	0.025349	44.017
	46517.0878	0.233288	599.3036	0.010919	14.649
46° 4'	359279.3828	30.874744	2630.9151	0.025364	44.062
	46531.0851	0.233495	599.9588	0.010936	14.677
46° 5'	361131.8675	30.874834	2632.4369	0.025379	44.108
	46545.0948	0.233702	600.6149	0.010953	14.704
46° 6'	362984.3575	30.874925	2633.9597	0.025395	44.154
	46559.1169	0.233909	601.2721	0.010970	14.732
46° 7'	364836.8530	30.875015	2635.4834	0.025410	44.199
	46573.1515	0.234116	601.9303	0.010987	14.760

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE WEST — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
46° 8'	366689.3539	30.875106	2637.0080	0.025425	44.245
	46587.1984	0.234324	602.5895	0.011004	14.788
46° 9'	368541.8603	30.875196	2638.5335	0.025440	44.291
	46601.2579	0.234531	603.2497	0.011021	14.816
46°10'	370394.3721	30.875287	2640.0599	0.025456	44.337
	46615.3297	0.234739	603.9109	0.011038	14.844
46°11'	372246.8893	30.875377	2641.5873	0.025471	44.382
	46629.4141	0.234947	604.5732	0.011055	14.872
46°12'	374099.4119	30.875467	2643.1155	0.025487	44.428
	46643.5109	0.235156	605.2365	0.011072	14.900
46°13'	375951.9399	30.875558	2644.6447	0.025502	44.474
	46657.6203	0.235364	605.9007	0.011089	14.928
46°14'	377804.4734	30.875648	2646.1748	0.025517	44.521
	46671.7422	0.235573	606.5661	0.011106	14.956
46°15'	379657.0123	30.875739	2647.7059	0.025533	44.567
	46685.8766	0.235782	607.2324	0.011123	14.985
46°16'	381509.5566	30.875829	2649.2378	0.025548	44.613
	46700.0235	0.235992	607.8998	0.011140	15.013
46°17'	383362.1064	30.875920	2650.7707	0.025564	44.659
	46714.1830	0.236201	608.5682	0.011158	15.041
46°18'	385214.6615	30.876010	2652.3045	0.025579	44.706
	46728.3551	0.236411	609.2377	0.011175	15.070
46°19'	387067.2221	30.876100	2653.8393	0.025595	44.752
	46742.5397	0.236621	609.9082	0.011192	15.098
46°20'	388919.7882	30.876191	2655.3750	0.025610	44.798
	46756.7370	0.236831	610.5797	0.011209	15.127
46°21'	390772.3596	30.876281	2656.9116	0.025626	44.845
	46770.9469	0.237042	611.2523	0.011227	15.156
46°22'	392624.9365	30.876372	2658.4491	0.025641	44.892
	46785.1694	0.237252	611.9259	0.011244	15.185
46°23'	394477.5188	30.876462	2659.9876	0.025657	44.938
	46799.4045	0.237463	612.6005	0.011262	15.213
46°24'	396330.1065	30.876552	2661.5270	0.025672	44.985
	46813.6523	0.237675	613.2762	0.011279	15.242
46°25'	398182.6996	30.876643	2663.0673	0.025688	45.032
	46827.9128	0.237886	613.9530	0.011297	15.271
46°26'	400035.2982	30.876733	2664.6086	0.025704	45.079
	46842.1860	0.238098	614.6308	0.011314	15.300
46°27'	401887.9022	30.876824	2666.1508	0.025719	45.126
	46856.4718	0.238310	615.3096	0.011332	15.329
46°28'	403740.5116	30.876914	2667.6940	0.025735	45.173
	46870.7704	0.238522	615.9895	0.011349	15.358
46°29'	405593.1265	30.877004	2669.2381	0.025751	45.220
	46885.0817	0.238734	616.6705	0.011367	15.388

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE WEST Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
46°30'	407445.7467	30.877095	2670.7831	0.025766	45.267
	46899.4058	0.238947	617.3525	0.011385	15.417
46°31'	409298.3724	30.877185	2672.3291	0.025782	45.314
	46913.7425	0.239159	618.0356	0.011402	15.446
46°32'	411151.0035	30.877276	2673.8760	0.025798	45.361
	46928.0921	0.239372	618.7197	0.011420	15.476
46°33'	413003.6400	30.877366	2675.4239	0.025814	45.409
	46942.4545	0.239586	619.4049	0.011438	15.505
46°34'	414856.2820	30.877456	2676.9727	0.025829	45.456
	46956.8296	0.239799	620.0912	0.011456	15.535
46°35'	416708.9294	30.877547	2678.5225	0.025845	45.503
	46971.2176	0.240013	620.7785	0.011474	15.564
46°36'	418561.5822	30.877637	2680.0732	0.025861	45.551
	46985.6184	0.240227	621.4669	0.011491	15.594
46°37'	420414.2404	30.877727	2681.6248	0.025877	45.599
	47000.0320	0.240441	622.1564	0.011509	15.624
46°38'	422266.9040	30.877818	2683.1774	0.025893	45.646
	47014.4585	0.240656	622.8470	0.011527	15.654
46°39'	424119.5731	30.877908	2684.7310	0.025908	45.694
	47028.8978	0.240871	623.5386	0.011545	15.684
46°40'	425972.2476	30.877998	2686.2855	0.025924	45.742
	47043.3500	0.241086	624.2313	0.011563	15.714
46°41'	427824.9275	30.878089	2687.8409	0.025940	45.790
	47057.8152	0.241301	624.9251	0.011581	15.744
46°42'	429677.6128	30.878179	2689.3974	0.025956	45.838
	47072.2932	0.241516	625.6200	0.011599	15.774
46°43'	431530.3036	30.878270	2690.9547	0.025972	45.886
	47086.7842	0.241732	626.3160	0.011617	15.804
46°44'	433382.9997	30.878360	2692.5131	0.025988	45.934
	47101.2881	0.241948	627.0130	0.011636	15.834
46°45'	435235.7013	30.878450	2694.0724	0.026004	45.982
	47115.8050	0.242164	627.7112	0.011654	15.864
46°46'	437088.4084	30.878541	2695.6326	0.026020	46.030
	47130.3348	0.242380	628.4104	0.011672	15.895
46°47'	438941.1208	30.878631	2697.1938	0.026036	46.078
	47144.8776	0.242597	629.1107	0.011690	15.925
46°48'	440793.8386	30.878721	2698.7560	0.026052	46.126
	47159.4335	0.242814	629.8121	0.011709	15.956
46°49'	442646.5619	30.878812	2700.3191	0.026068	46.175
	47174.0023	0.243031	630.5146	0.011727	15.986
46°50'	444499.2906	30.878902	2701.8832	0.026084	46.223
	47188.5842	0.243248	631.2183	0.011745	16.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0009	-0.0014	-0.0016

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°50'	0.0000	30.857208	6798.6806	0.035548	2.896	
			29936.1092	0.290693	453.849	0.012298
42°51'	1851.4325	30.857298	6800.8135	0.035539	2.895	
			29953.5508	0.290850	454.359	0.012298
42°52'	3702.8704	30.857388	6802.9458	0.035529	2.894	
			29971.0018	0.291007	454.869	0.012298
42°53'	5554.3137	30.857479	6805.0775	0.035519	2.894	
			29988.4622	0.291164	455.380	0.012298
42°54'	7405.7624	30.857569	6807.2087	0.035510	2.893	
			30005.9320	0.291321	455.892	0.012298
42°55'	9257.2165	30.857659	6809.3393	0.035500	2.892	
			30023.4112	0.291478	456.404	0.012298
42°56'	11108.6761	30.857749	6811.4693	0.035491	2.892	
			30040.8999	0.291635	456.917	0.012298
42°57'	12960.1410	30.857839	6813.5987	0.035481	2.891	
			30058.3980	0.291793	457.431	0.012298
42°58'	14811.6114	30.857929	6815.7276	0.035471	2.890	
			30075.9056	0.291951	457.946	0.012298
42°59'	16663.0871	30.858020	6817.8559	0.035462	2.890	
			30093.4227	0.292109	458.461	0.012298
43° 0'	18514.5683	30.858110	6819.9836	0.035452	2.889	
			30110.9492	0.292267	458.977	0.012298
43° 1'	20366.0549	30.858200	6822.1107	0.035443	2.888	
			30128.4852	0.292425	459.494	0.012298
43° 2'	22217.5469	30.858290	6824.2373	0.035433	2.888	
			30146.0308	0.292584	460.011	0.012297
43° 3'	24069.0443	30.858380	6826.3633	0.035423	2.887	
			30163.5858	0.292743	460.529	0.012297
43° 4'	25920.5471	30.858471	6828.4887	0.035414	2.886	
			30181.1504	0.292902	461.048	0.012297
43° 5'	27772.0554	30.858561	6830.6135	0.035404	2.886	
			30198.7245	0.293061	461.567	0.012297
43° 6'	29623.5690	30.858651	6832.7377	0.035394	2.885	
			30216.3081	0.293220	462.088	0.012297
43° 7'	31475.0881	30.858741	6834.8614	0.035385	2.884	
			30233.9013	0.293379	462.609	0.012297
43° 8'	33326.6126	30.858832	6836.9845	0.035375	2.884	
			30251.5041	0.293539	463.130	0.012297
43° 9'	35178.1425	30.858922	6839.1070	0.035366	2.883	
			30269.1164	0.293699	463.653	0.012297
43°10'	37029.6778	30.859012	6841.2289	0.035356	2.882	
			30286.7384	0.293859	464.176	0.012297
43°11'	38881.2185	30.859102	6843.3503	0.035346	2.881	
			30304.3699	0.294019	464.700	0.012297

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°12'	40732.7646	30.859193	6845.4711	0.035337	2.881	
			30322.0110	0.294179	465.225	0.012297
43°13'	42584.3162	30.859283	6847.5913	0.035327	2.880	
			30339.6618	0.294340	465.750	0.012297
43°14'	44435.8732	30.859373	6849.7109	0.035317	2.879	
			30357.3222	0.294501	466.276	0.012297
43°15'	46287.4355	30.859463	6851.8299	0.035308	2.879	
			30374.9922	0.294662	466.803	0.012297
43°16'	48139.0033	30.859554	6853.9484	0.035298	2.878	
			30392.6719	0.294823	467.330	0.012297
43°17'	49990.5766	30.859644	6856.0662	0.035288	2.877	
			30410.3613	0.294984	467.859	0.012297
43°18'	51842.1552	30.859734	6858.1835	0.035279	2.877	
			30428.0603	0.295145	468.388	0.012297
43°19'	53693.7392	30.859824	6860.3002	0.035269	2.876	
			30445.7690	0.295307	468.917	0.012297
43°20'	55545.3287	30.859915	6862.4164	0.035259	2.875	
			30463.4875	0.295469	469.448	0.012297
43°21'	57396.9236	30.860005	6864.5319	0.035250	2.874	
			30481.2156	0.295631	469.979	0.012297
43°22'	59248.5239	30.860095	6866.6469	0.035240	2.874	
			30498.9534	0.295793	470.511	0.012297
43°23'	61100.1296	30.860185	6868.7613	0.035230	2.873	
			30516.7010	0.295955	471.044	0.012296
43°24'	62951.7407	30.860276	6870.8751	0.035220	2.872	
			30534.4583	0.296118	471.577	0.012296
43°25'	64803.3572	30.860366	6872.9883	0.035211	2.872	
			30552.2254	0.296281	472.111	0.012296
43°26'	66654.9792	30.860456	6875.1010	0.035201	2.871	
			30570.0022	0.296443	472.646	0.012296
43°27'	68506.6066	30.860547	6877.2131	0.035191	2.870	
			30587.7888	0.296607	473.182	0.012296
43°28'	70358.2394	30.860637	6879.3245	0.035182	2.869	
			30605.5852	0.296770	473.718	0.012296
43°29'	72209.8776	30.860727	6881.4354	0.035172	2.869	
			30623.3914	0.296933	474.256	0.012296
43°30'	74061.5212	30.860818	6883.5458	0.035162	2.868	
			30641.2074	0.297097	474.794	0.012296
43°31'	75913.1703	30.860908	6885.6555	0.035153	2.867	
			30659.0332	0.297261	475.332	0.012296
43°32'	77764.8247	30.860998	6887.7646	0.035143	2.867	
			30676.8689	0.297425	475.872	0.012296
43°33'	79616.4846	30.861088	6889.8732	0.035133	2.866	
			30694.7144	0.297589	476.412	0.012296

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

MAINE WEST Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°34'	81468.1499	30.861179	6891.9812	0.035123	2.865	
			30712.5697	0.297753	476.953	0.012296
43°35'	83319.8207	30.861269	6894.0886	0.035114	2.864	
			30730.4349	0.297918	477.495	0.012296
43°36'	85171.4968	30.861359	6896.1954	0.035104	2.864	
			30748.3100	0.298083	478.037	0.012296
43°37'	87023.1784	30.861450	6898.3017	0.035094	2.863	
			30766.1950	0.298248	478.580	0.012296
43°38'	88874.8654	30.861540	6900.4073	0.035085	2.862	
			30784.0899	0.298413	479.124	0.012296
43°39'	90726.5578	30.861630	6902.5124	0.035075	2.861	
			30801.9946	0.298578	479.669	0.012296
43°40'	92578.2556	30.861721	6904.6169	0.035065	2.861	
			30819.9093	0.298744	480.215	0.012296
43°41'	94429.9588	30.861811	6906.7208	0.035055	2.860	
			30837.8340	0.298910	480.761	0.012296
43°42'	96281.6675	30.861901	6908.8241	0.035046	2.859	
			30855.7685	0.299075	481.308	0.012296
43°43'	98133.3816	30.861992	6910.9268	0.035036	2.858	
			30873.7131	0.299242	481.856	0.012296
43°44'	99985.1011	30.862082	6913.0290	0.035026	2.858	
			30891.6676	0.299408	482.405	0.012295
43°45'	101836.8260	30.862172	6915.1306	0.035016	2.857	
			30909.6320	0.299574	482.954	0.012295
43°46'	103688.5564	30.862263	6917.2315	0.035007	2.856	
			30927.6065	0.299741	483.504	0.012295
43°47'	105540.2921	30.862353	6919.3319	0.034997	2.856	
			30945.5910	0.299908	484.055	0.012295
43°48'	107392.0333	30.862444	6921.4317	0.034987	2.855	
			30963.5854	0.300075	484.607	0.012295
43°49'	109243.7799	30.862534	6923.5310	0.034977	2.854	
			30981.5899	0.300242	485.160	0.012295
43°50'	111095.5320	30.862624	6925.6296	0.034968	2.853	
			30999.6044	0.300410	485.713	0.012295
43°51'	112947.2894	30.862715	6927.7276	0.034958	2.853	
			31017.6290	0.300577	486.267	0.012295
43°52'	114799.0523	30.862805	6929.8251	0.034948	2.852	
			31035.6637	0.300745	486.822	0.012295
43°53'	116650.8206	30.862895	6931.9220	0.034938	2.851	
			31053.7084	0.300913	487.377	0.012295
43°54'	118502.5943	30.862986	6934.0183	0.034928	2.850	
			31071.7631	0.301081	487.934	0.012295
43°55'	120354.3735	30.863076	6936.1140	0.034919	2.850	
			31089.8280	0.301250	488.491	0.012295

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°56'	122206.1581	30.863167	6938.2091	0.034909	2.849	
			31107.9030	0.301418	489.049	0.012295
43°57'	124057.9480	30.863257	6940.3036	0.034899	2.848	
			31125.9881	0.301587	489.608	0.012295
43°58'	125909.7435	30.863347	6942.3976	0.034889	2.847	
			31144.0833	0.301756	490.167	0.012295
43°59'	127761.5443	30.863438	6944.4909	0.034879	2.847	
			31162.1886	0.301925	490.728	0.012295
44° 0'	129613.3506	30.863528	6946.5837	0.034870	2.846	
			31180.3041	0.302094	491.289	0.012295
44° 1'	131465.1622	30.863618	6948.6759	0.034860	2.845	
			31198.4298	0.302264	491.851	0.012295
44° 2'	133316.9793	30.863709	6950.7675	0.034850	2.844	
			31216.5657	0.302434	492.414	0.012295
44° 3'	135168.8019	30.863799	6952.8585	0.034840	2.843	
			31234.7117	0.302604	492.977	0.012295
44° 4'	137020.6298	30.863890	6954.9489	0.034830	2.843	
			31252.8679	0.302774	493.542	0.012295
44° 5'	138872.4632	30.863980	6957.0387	0.034821	2.842	
			31271.0343	0.302944	494.107	0.012294
44° 6'	140724.3020	30.864070	6959.1280	0.034811	2.841	
			31289.2110	0.303115	494.673	0.012294
44° 7'	142576.1462	30.864161	6961.2166	0.034801	2.840	
			31307.3979	0.303285	495.240	0.012294
44° 8'	144427.9959	30.864251	6963.3047	0.034791	2.840	
			31325.5950	0.303456	495.807	0.012294
44° 9'	146279.8510	30.864342	6965.3921	0.034781	2.839	
			31343.8024	0.303627	496.376	0.012294
44°10'	148131.7115	30.864432	6967.4790	0.034772	2.838	
			31362.0200	0.303799	496.945	0.012294
44°11'	149983.5774	30.864522	6969.5653	0.034762	2.837	
			31380.2479	0.303970	497.515	0.012294
44°12'	151835.4487	30.864613	6971.6510	0.034752	2.837	
			31398.4861	0.304142	498.086	0.012294
44°13'	153687.3255	30.864703	6973.7361	0.034742	2.836	
			31416.7347	0.304314	498.657	0.012294
44°14'	155539.2077	30.864794	6975.8207	0.034732	2.835	
			31434.9935	0.304486	499.230	0.012294
44°15'	157391.0953	30.864884	6977.9046	0.034722	2.834	
			31453.2627	0.304658	499.803	0.012294
44°16'	159242.9884	30.864975	6979.9879	0.034713	2.833	
			31471.5421	0.304831	500.377	0.012294
44°17'	161094.8869	30.865065	6982.0707	0.034703	2.833	
			31489.8320	0.305003	500.952	0.012294

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°18'	162946.7908	30.865155	6984.1529	0.034693	2.832	
			31508.1322	0.305176	501.528	0.012294
44°19'	164798.7001	30.865246	6986.2344	0.034683	2.831	
			31526.4428	0.305349	502.104	0.012294
44°20'	166650.6148	30.865336	6988.3154	0.034673	2.830	
			31544.7637	0.305523	502.682	0.012294
44°21'	168502.5350	30.865427	6990.3958	0.034663	2.830	
			31563.0951	0.305696	503.260	0.012294
44°22'	170354.4606	30.865517	6992.4756	0.034653	2.829	
			31581.4369	0.305870	503.839	0.012294
44°23'	172206.3916	30.865608	6994.5548	0.034644	2.828	
			31599.7891	0.306044	504.419	0.012294
44°24'	174058.3281	30.865698	6996.6334	0.034634	2.827	
			31618.1517	0.306218	505.000	0.012294
44°25'	175910.2700	30.865788	6998.7114	0.034624	2.826	
			31636.5248	0.306392	505.581	0.012294
44°26'	177762.2173	30.865879	7000.7889	0.034614	2.826	
			31654.9083	0.306567	506.164	0.012293
44°27'	179614.1700	30.865969	7002.8657	0.034604	2.825	
			31673.3023	0.306741	506.747	0.012293
44°28'	181466.1282	30.866060	7004.9419	0.034594	2.824	
			31691.7068	0.306916	507.331	0.012293
44°29'	183318.0917	30.866150	7007.0176	0.034584	2.823	
			31710.1218	0.307091	507.916	0.012293
44°30'	185170.0608	30.866241	7009.0926	0.034574	2.822	
			31728.5473	0.307267	508.501	0.012293
44°31'	187022.0352	30.866331	7011.1671	0.034565	2.822	
			31746.9833	0.307442	509.088	0.012293
44°32'	188874.0151	30.866422	7013.2410	0.034555	2.821	
			31765.4298	0.307618	509.675	0.012293
44°33'	190726.0003	30.866512	7015.3143	0.034545	2.820	
			31783.8869	0.307794	510.264	0.012293
44°34'	192577.9911	30.866602	7017.3869	0.034535	2.819	
			31802.3545	0.307970	510.853	0.012293
44°35'	194429.9872	30.866693	7019.4590	0.034525	2.818	
			31820.8327	0.308146	511.443	0.012293
44°36'	196281.9888	30.866783	7021.5305	0.034515	2.818	
			31839.3215	0.308323	512.033	0.012293
44°37'	198133.9958	30.866874	7023.6014	0.034505	2.817	
			31857.8209	0.308500	512.625	0.012293
44°38'	199986.0082	30.866964	7025.6717	0.034495	2.816	
			31876.3308	0.308676	513.217	0.012293
44°39'	201838.0261	30.867055	7027.7415	0.034485	2.815	
			31894.8514	0.308854	513.811	0.012293

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

MAINE WEST Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°40'	203690.0493	30.867145	7029.8106	0.034475	2.814	
			31913.3826	0.309031	514.405	0.012293
44°41'	205542.0780	30.867236	7031.8791	0.034465	2.814	
			31931.9245	0.309209	515.000	0.012293
44°42'	207394.1122	30.867326	7033.9470	0.034456	2.813	
			31950.4770	0.309386	515.596	0.012293
44°43'	209246.1517	30.867416	7036.0144	0.034446	2.812	
			31969.0402	0.309564	516.193	0.012293
44°44'	211098.1967	30.867507	7038.0811	0.034436	2.811	
			31987.6141	0.309742	516.790	0.012293
44°45'	212950.2472	30.867597	7040.1472	0.034426	2.810	
			32006.1986	0.309921	517.389	0.012293
44°46'	214802.3030	30.867688	7042.2128	0.034416	2.810	
			32024.7938	0.310099	517.988	0.012292
44°47'	216654.3643	30.867778	7044.2777	0.034406	2.809	
			32043.3998	0.310278	518.588	0.012292
44°48'	218506.4310	30.867869	7046.3421	0.034396	2.808	
			32062.0165	0.310457	519.189	0.012292
44°49'	220358.5031	30.867959	7048.4059	0.034386	2.807	
			32080.6439	0.310636	519.791	0.012292
44°50'	222210.5807	30.868050	7050.4690	0.034376	2.806	
			32099.2821	0.310816	520.394	0.012292
44°51'	224062.6636	30.868140	7052.5316	0.034366	2.806	
			32117.9311	0.310995	520.998	0.012292
44°52'	225914.7521	30.868231	7054.5936	0.034356	2.805	
			32136.5908	0.311175	521.603	0.012292
44°53'	227766.8459	30.868321	7056.6549	0.034346	2.804	
			32155.2613	0.311355	522.208	0.012292
44°54'	229618.9452	30.868412	7058.7157	0.034336	2.803	
			32173.9426	0.311536	522.814	0.012292
44°55'	231471.0499	30.868502	7060.7759	0.034326	2.802	
			32192.6348	0.311716	523.422	0.012292
44°56'	233323.1600	30.868593	7062.8355	0.034316	2.801	
			32211.3377	0.311897	524.030	0.012292
44°57'	235175.2755	30.868683	7064.8944	0.034306	2.801	
			32230.0515	0.312078	524.639	0.012292
44°58'	237027.3965	30.868773	7066.9528	0.034296	2.800	
			32248.7762	0.312259	525.248	0.012292
44°59'	238879.5229	30.868864	7069.0106	0.034286	2.799	
			32267.5117	0.312440	525.859	0.012292
45° 0'	240731.6548	30.868954	7071.0678	0.034277	2.798	
			32286.2581	0.312621	526.471	0.012292
45° 1'	242583.7920	30.869045	7073.1244	0.034267	2.797	
			32305.0154	0.312803	527.083	0.012292

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45° 2'	244435.9347	30.869135	7075.1804	0.034257	2.796	
			32323.7836	0.312985	527.697	0.012292
45° 3'	246288.0828	30.869226	7077.2358	0.034247	2.796	
			32342.5627	0.313167	528.311	0.012292
45° 4'	248140.2364	30.869316	7079.2906	0.034237	2.795	
			32361.3527	0.313350	528.926	0.012292
45° 5'	249992.3954	30.869407	7081.3448	0.034227	2.794	
			32380.1537	0.313532	529.542	0.012292
45° 6'	251844.5598	30.869497	7083.3984	0.034217	2.793	
			32398.9656	0.313715	530.159	0.012292
45° 7'	253696.7296	30.869588	7085.4514	0.034207	2.792	
			32417.7885	0.313898	530.777	0.012291
45° 8'	255548.9049	30.869678	7087.5038	0.034197	2.791	
			32436.6224	0.314081	531.396	0.012291
45° 9'	257401.0856	30.869769	7089.5556	0.034187	2.791	
			32455.4673	0.314265	532.016	0.012291
45°10'	259253.2717	30.869859	7091.6068	0.034177	2.790	
			32474.3232	0.314448	532.636	0.012291
45°11'	261105.4632	30.869950	7093.6574	0.034167	2.789	
			32493.1901	0.314632	533.258	0.012291
45°12'	262957.6602	30.870040	7095.7074	0.034157	2.788	
			32512.0680	0.314816	533.880	0.012291
45°13'	264809.8626	30.870131	7097.7568	0.034147	2.787	
			32530.9570	0.315001	534.504	0.012291
45°14'	266662.0704	30.870221	7099.8056	0.034137	2.786	
			32549.8570	0.315185	535.128	0.012291
45°15'	268514.2837	30.870311	7101.8538	0.034127	2.786	
			32568.7681	0.315370	535.753	0.012291
45°16'	270366.5024	30.870402	7103.9014	0.034117	2.785	
			32587.6903	0.315555	536.379	0.012291
45°17'	272218.7265	30.870492	7105.9483	0.034107	2.784	
			32606.6236	0.315740	537.006	0.012291
45°18'	274070.9560	30.870583	7107.9947	0.034097	2.783	
			32625.5680	0.315925	537.634	0.012291
45°19'	275923.1910	30.870673	7110.0405	0.034086	2.782	
			32644.5235	0.316111	538.263	0.012291
45°20'	277775.4314	30.870764	7112.0857	0.034076	2.781	
			32663.4902	0.316297	538.892	0.012291
45°21'	279627.6773	30.870854	7114.1303	0.034066	2.780	
			32682.4680	0.316483	539.523	0.012291
45°22'	281479.9285	30.870945	7116.1743	0.034056	2.780	
			32701.4570	0.316669	540.155	0.012291
45°23'	283332.1852	30.871035	7118.2177	0.034046	2.779	
			32720.4571	0.316855	540.787	0.012291

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45°24'	285184.4473	30.871126	7120.2605	0.034036	2.778	
			32739.4684	0.317042	541.421	0.012291
45°25'	287036.7149	30.871216	7122.3026	0.034026	2.777	
			32758.4909	0.317229	542.055	0.012291
45°26'	288888.9878	30.871307	7124.3442	0.034016	2.776	
			32777.5247	0.317416	542.690	0.012291
45°27'	290741.2662	30.871397	7126.3852	0.034006	2.775	
			32796.5697	0.317603	543.327	0.012291
45°28'	292593.5501	30.871488	7128.4256	0.033996	2.774	
			32815.6259	0.317791	543.964	0.012290
45°29'	294445.8393	30.871578	7130.4653	0.033986	2.774	
			32834.6933	0.317979	544.602	0.012290
45°30'	296298.1340	30.871669	7132.5045	0.033976	2.773	
			32853.7721	0.318167	545.241	0.012290
45°31'	298150.4341	30.871759	7134.5431	0.033966	2.772	
			32872.8621	0.318355	545.881	0.012290
45°32'	300002.7397	30.871850	7136.5810	0.033956	2.771	
			32891.9634	0.318544	546.522	0.012290
45°33'	301855.0506	30.871940	7138.6184	0.033946	2.770	
			32911.0760	0.318732	547.164	0.012290
45°34'	303707.3670	30.872030	7140.6551	0.033936	2.769	
			32930.1999	0.318921	547.806	0.012290
45°35'	305559.6889	30.872121	7142.6913	0.033926	2.768	
			32949.3352	0.319110	548.450	0.012290
45°36'	307412.0161	30.872211	7144.7268	0.033916	2.767	
			32968.4818	0.319300	549.095	0.012290
45°37'	309264.3488	30.872302	7146.7617	0.033906	2.767	
			32987.6398	0.319489	549.741	0.012290
45°38'	311116.6869	30.872392	7148.7961	0.033895	2.766	
			33006.8091	0.319679	550.387	0.012290
45°39'	312969.0305	30.872483	7150.8298	0.033885	2.765	
			33025.9898	0.319869	551.035	0.012290
45°40'	314821.3794	30.872573	7152.8629	0.033875	2.764	
			33045.1820	0.320059	551.683	0.012290
45°41'	316673.7338	30.872664	7154.8954	0.033865	2.763	
			33064.3855	0.320250	552.333	0.012290
45°42'	318526.0936	30.872754	7156.9273	0.033855	2.762	
			33083.6005	0.320440	552.983	0.012290
45°43'	320378.4589	30.872845	7158.9586	0.033845	2.761	
			33102.8269	0.320631	553.635	0.012290
45°44'	322230.8296	30.872935	7160.9893	0.033835	2.760	
			33122.0648	0.320822	554.287	0.012290
45°45'	324083.2057	30.873026	7163.0194	0.033825	2.760	
			33141.3141	0.321014	554.940	0.012290

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45°46'	325935.5872	30.873116	7165.0489	0.033815	2.759	
			33160.5749	0.321205	555.595	0.012290
45°47'	327787.9742	30.873206	7167.0778	0.033805	2.758	
			33179.8473	0.321397	556.250	0.012290
45°48'	329640.3665	30.873297	7169.1061	0.033794	2.757	
			33199.1311	0.321589	556.906	0.012290
45°49'	331492.7644	30.873387	7171.1337	0.033784	2.756	
			33218.4264	0.321781	557.563	0.012289
45°50'	333345.1676	30.873478	7173.1608	0.033774	2.755	
			33237.7333	0.321974	558.222	0.012289
45°51'	335197.5763	30.873568	7175.1873	0.033764	2.754	
			33257.0517	0.322167	558.881	0.012289
45°52'	337049.9904	30.873659	7177.2131	0.033754	2.753	
			33276.3817	0.322360	559.541	0.012289
45°53'	338902.4099	30.873749	7179.2383	0.033744	2.752	
			33295.7233	0.322553	560.202	0.012289
45°54'	340754.8348	30.873840	7181.2630	0.033734	2.752	
			33315.0765	0.322746	560.864	0.012289
45°55'	342607.2652	30.873930	7183.2870	0.033724	2.751	
			33334.4412	0.322940	561.527	0.012289
45°56'	344459.7010	30.874021	7185.3104	0.033713	2.750	
			33353.8176	0.323134	562.191	0.012289
45°57'	346312.1423	30.874111	7187.3332	0.033703	2.749	
			33373.2056	0.323328	562.856	0.012289
45°58'	348164.5889	30.874201	7189.3554	0.033693	2.748	
			33392.6053	0.323522	563.523	0.012289
45°59'	350017.0410	30.874292	7191.3770	0.033683	2.747	
			33412.0166	0.323717	564.190	0.012289
46° 0'	351869.4985	30.874382	7193.3980	0.033673	2.746	
			33431.4396	0.323911	564.858	0.012289
46° 1'	353721.9614	30.874473	7195.4184	0.033663	2.745	
			33450.8743	0.324106	565.527	0.012289
46° 2'	355574.4298	30.874563	7197.4381	0.033653	2.744	
			33470.3207	0.324302	566.197	0.012289
46° 3'	357426.9036	30.874654	7199.4573	0.033642	2.743	
			33489.7788	0.324497	566.868	0.012289
46° 4'	359279.3828	30.874744	7201.4758	0.033632	2.743	
			33509.2486	0.324693	567.540	0.012289
46° 5'	361131.8675	30.874834	7203.4938	0.033622	2.742	
			33528.7301	0.324889	568.213	0.012289
46° 6'	362984.3575	30.874925	7205.5111	0.033612	2.741	
			33548.2235	0.325085	568.887	0.012289
46° 7'	364836.8530	30.875015	7207.5278	0.033602	2.740	
			33567.7286	0.325281	569.562	0.012289

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
46° 8'	366689.3539	30.875106	7209.5439	0.033592	2.739	
			33587.2454	0.325478	570.238	0.012289
46° 9'	368541.8603	30.875196	7211.5594	0.033581	2.738	
			33606.7741	0.325675	570.915	0.012289
46°10'	370394.3721	30.875287	7213.5743	0.033571	2.737	
			33626.3146	0.325872	571.593	0.012288
46°11'	372246.8893	30.875377	7215.5886	0.033561	2.736	
			33645.8669	0.326069	572.272	0.012288
46°12'	374099.4119	30.875467	7217.6023	0.033551	2.735	
			33665.4311	0.326267	572.952	0.012288
46°13'	375951.9399	30.875558	7219.6153	0.033541	2.734	
			33685.0071	0.326465	573.634	0.012288
46°14'	377804.4734	30.875648	7221.6278	0.033531	2.733	
			33704.5950	0.326663	574.316	0.012288
46°15'	379657.0123	30.875739	7223.6396	0.033520	2.733	
			33724.1948	0.326861	574.999	0.012288
46°16'	381509.5566	30.875829	7225.6508	0.033510	2.732	
			33743.8064	0.327060	575.683	0.012288
46°17'	383362.1064	30.875920	7227.6615	0.033500	2.731	
			33763.4300	0.327258	576.368	0.012288
46°18'	385214.6615	30.876010	7229.6715	0.033490	2.730	
			33783.0655	0.327457	577.055	0.012288
46°19'	387067.2221	30.876100	7231.6808	0.033480	2.729	
			33802.7129	0.327657	577.742	0.012288
46°20'	388919.7882	30.876191	7233.6896	0.033469	2.728	
			33822.3723	0.327856	578.430	0.012288
46°21'	390772.3596	30.876281	7235.6978	0.033459	2.727	
			33842.0437	0.328056	579.119	0.012288
46°22'	392624.9365	30.876372	7237.7053	0.033449	2.726	
			33861.7271	0.328256	579.810	0.012288
46°23'	394477.5188	30.876462	7239.7123	0.033439	2.725	
			33881.4224	0.328456	580.501	0.012288
46°24'	396330.1065	30.876552	7241.7186	0.033429	2.724	
			33901.1298	0.328656	581.194	0.012288
46°25'	398182.6996	30.876643	7243.7243	0.033418	2.723	
			33920.8491	0.328857	581.887	0.012288
46°26'	400035.2982	30.876733	7245.7294	0.033408	2.722	
			33940.5806	0.329058	582.582	0.012288
46°27'	401887.9022	30.876824	7247.7339	0.033398	2.722	
			33960.3240	0.329259	583.277	0.012288
46°28'	403740.5116	30.876914	7249.7378	0.033388	2.721	
			33980.0796	0.329461	583.974	0.012288
46°29'	405593.1265	30.877004	7251.7411	0.033377	2.720	
			33999.8472	0.329662	584.672	0.012288

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

MAINE WEST — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
46°30'	407445.7467	30.877095	7253.7437	0.033367	2.719	
			34019.6269	0.329864	585.371	0.012287
46°31'	409298.3724	30.877185	7255.7457	0.033357	2.718	
			34039.4188	0.330066	586.070	0.012287
46°32'	411151.0035	30.877276	7257.7472	0.033347	2.717	
			34059.2228	0.330269	586.771	0.012287
46°33'	413003.6400	30.877366	7259.7480	0.033337	2.716	
			34079.0389	0.330471	587.473	0.012287
46°34'	414856.2820	30.877456	7261.7482	0.033326	2.715	
			34098.8671	0.330674	588.176	0.012287
46°35'	416708.9294	30.877547	7263.7477	0.033316	2.714	
			34118.7076	0.330877	588.880	0.012287
46°36'	418561.5822	30.877637	7265.7467	0.033306	2.713	
			34138.5602	0.331080	589.585	0.012287
46°37'	420414.2404	30.877727	7267.7451	0.033296	2.712	
			34158.4250	0.331284	590.291	0.012287
46°38'	422266.9040	30.877818	7269.7428	0.033285	2.711	
			34178.3021	0.331488	590.999	0.012287
46°39'	424119.5731	30.877908	7271.7399	0.033275	2.710	
			34198.1913	0.331692	591.707	0.012287
46°40'	425972.2476	30.877998	7273.7364	0.033265	2.709	
			34218.0928	0.331896	592.416	0.012287
46°41'	427824.9275	30.878089	7275.7323	0.033255	2.708	
			34238.0066	0.332101	593.127	0.012287
46°42'	429677.6128	30.878179	7277.7276	0.033244	2.707	
			34257.9326	0.332306	593.838	0.012287
46°43'	431530.3036	30.878270	7279.7222	0.033234	2.707	
			34277.8710	0.332511	594.551	0.012287
46°44'	433382.9997	30.878360	7281.7163	0.033224	2.706	
			34297.8216	0.332716	595.265	0.012287
46°45'	435235.7013	30.878450	7283.7097	0.033213	2.705	
			34317.7846	0.332921	595.979	0.012287
46°46'	437088.4084	30.878541	7285.7025	0.033203	2.704	
			34337.7599	0.333127	596.695	0.012287
46°47'	438941.1208	30.878631	7287.6947	0.033193	2.703	
			34357.7475	0.333333	597.412	0.012287
46°48'	440793.8386	30.878721	7289.6863	0.033183	2.702	
			34377.7475	0.333540	598.130	0.012287
46°49'	442646.5619	30.878812	7291.6772	0.033172	2.701	
			34397.7599	0.333746	598.849	0.012287
46°50'	444499.2906	30.878902	7293.6676	0.033162	2.700	
			34417.7846	0.333953	599.570	0.012287

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0013	-0.0015

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MARYLAND

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 37°40' (latitude of grid origin)
λ_{CM} = 77 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 38 18 (southern standard parallel)
ϕ_n = 39 27 (northern standard parallel)
E_o = 400000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.627634132355 = $\sin(\phi_o)$
K = 12551136.6396 m (mapping radius at the equator)
R_b = 8055622.7373 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_o$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	38 52 30.00000 77 30 0.00000	7921492.630 m -0 18 49.74144	-0.0054771137 0.9999850005	356613.084 m 134248.926 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	450000.000 m 140000.000 m	50000.000 m 7915622.737 m	7915780.6513 m 0 21 42.87957	38 55 35.2400 76 25 24.1416

WARNING: Use sufficient significant digits for trig.functions
Lambert conformal conic projection tables MARYLAND

Lat	R (meters)	2 tab diff.	k
37°50'	8037121.495	30.83495	1.00011389
37 51	8035271.398	30.83488	1.00010870
37 52	8033421.305	30.83481	1.00010359
37 53	8031571.216	30.83475	1.00009857
37 54	8029721.132	30.83468	1.00009363
37 55	8027871.050	30.83462	1.00008877
37 56	8026020.973	30.83457	1.00008399
37 57	8024170.899	30.83451	1.00007930
37 58	8022320.829	30.83446	1.00007469
37 59	8020470.761	30.83441	1.00007016
38 0	8018620.697	30.83436	1.00006572
38 1	8016770.635	30.83431	1.00006136
38 2	8014920.577	30.83427	1.00005708
38 3	8013070.521	30.83423	1.00005289
38 4	8011220.467	30.83419	1.00004878
38 5	8009370.415	30.83416	1.00004475
38 6	8007520.366	30.83412	1.00004081
38 7	8005670.319	30.83409	1.00003695
38 8	8003820.273	30.83407	1.00003317
38 9	8001970.229	30.83404	1.00002948
38 10	8000120.187	30.83402	1.00002587
38 11	7998270.146	30.83400	1.00002234
38 12	7996420.106	30.83398	1.00001890
38 13	7994570.067	30.83397	1.00001554
38 14	7992720.029	30.83396	1.00001227
38 15	7990869.992	30.83395	1.00000907
38 16	7989019.955	30.83394	1.00000597
38 17	7987169.919	30.83393	1.00000294
38 18	7985319.882	30.83393	1.00000000
38 19	7983469.846	30.83393	0.99999714
38 20	7981619.810	30.83394	0.99999437
38 21	7979769.774	30.83394	0.99999168
38 22	7977919.737	30.83395	0.99998907
38 23	7976069.700	30.83396	0.99998655
38 24	7974219.662	30.83398	0.99998411
38 25	7972369.624	30.83399	0.99998175
38 26	7970519.584	30.83401	0.99997948
38 27	7968669.543	30.83404	0.99997729
38 28	7966819.501	30.83406	0.99997519
38 29	7964969.457	30.83409	0.99997317

Lambert conformal conic projection tables
MARYLAND

Lat	R (meters)	tab diff.	k
38°30'	7963119.412	30.83412	0.99997123
38 31	7961269.365	30.83415	0.99996938
38 32	7959419.316	30.83418	0.99996761
38 33	7957569.265	30.83422	0.99996592
38 34	7955719.212	30.83426	0.99996432
38 35	7953869.156	30.83430	0.99996280
38 36	7952019.098	30.83435	0.99996137
38 37	7950169.037	30.83440	0.99996002
38 38	7948318.973	30.83445	0.99995875
38 39	7946468.907	30.83450	0.99995757
38 40	7944618.837	30.83456	0.99995647
38 41	7942768.763	30.83461	0.99995546
38 42	7940918.687	30.83467	0.99995453
38 43	7939068.606	30.83474	0.99995369
38 44	7937218.522	30.83480	0.99995292
38 45	7935368.434	30.83487	0.99995225
38 46	7933518.341	30.83494	0.99995165
38 47	7931668.245	30.83502	0.99995114
38 48	7929818.144	30.83509	0.99995072
38 49	7927968.038	30.83517	0.99995038
38 50	7926117.928	30.83525	0.99995012
38 51	7924267.813	30.83534	0.99994995
38 52	7922417.692	30.83542	0.99994986
38 53	7920567.567	30.83551	0.99994986
38 54	7918717.436	30.83561	0.99994994
38 55	7916867.299	30.83570	0.99995010
38 56	7915017.157	30.83580	0.99995035
38 57	7913167.010	30.83590	0.99995068
38 58	7911316.856	30.83600	0.99995110
38 59	7909466.696	30.83611	0.99995160
39 0	7907616.529	30.83621	0.99995219
39 1	7905766.356	30.83632	0.99995286
39 2	7903916.177	30.83644	0.99995362
39 3	7902065.991	30.83655	0.99995446
39 4	7900215.798	30.83667	0.99995538
39 5	7898365.597	30.83679	0.99995639
39 6	7896515.390	30.83691	0.99995748
39 7	7894665.175	30.83704	0.99995866
39 8	7892814.953	30.83717	0.99995992
39 9	7890964.722	30.83730	0.99996127

Lat	R (meters)	tab diff.	k
39°10'	7889114.484	30.83743	0.99996270
39 11	7887264.238	30.83757	0.99996422
39 12	7885413.984	30.83771	0.99996582
39 13	7883563.721	30.83785	0.99996750
39 14	7881713.450	30.83800	0.99996927
39 15	7879863.170	30.83814	0.99997113
39 16	7878012.882	30.83829	0.99997307
39 17	7876162.584	30.83845	0.99997509
39 18	7874312.278	30.83860	0.99997720
39 19	7872461.961	30.83876	0.99997939
39 20	7870611.636	30.83892	0.99998167
39 21	7868761.301	30.83908	0.99998404
39 22	7866910.956	30.83925	0.99998648
39 23	7865060.601	30.83941	0.99998902
39 24	7863210.236	30.83958	0.99999164
39 25	7861359.861	30.83976	0.99999434
39 26	7859509.476	30.83993	0.99999713
39 27	7857659.080	30.84011	1.00000000
39 28	7855808.673	30.84029	1.00000296
39 29	7853958.255	30.84048	1.00000600
39 30	7852107.827	30.84066	1.00000913
39 31	7850257.387	30.84085	1.00001234
39 32	7848406.936	30.84104	1.00001564
39 33	7846556.473	30.84124	1.00001902
39 34	7844705.999	30.84144	1.00002249
39 35	7842855.513	30.84164	1.00002605
39 36	7841005.014	30.84184	1.00002968
39 37	7839154.504	30.84204	1.00003341
39 38	7837303.982	30.84225	1.00003722
39 39	7835453.446	30.84246	1.00004111
39 40	7833602.899	30.84267	1.00004509
39 41	7831752.338	30.84289	1.00004916
39 42	7829901.765	30.84311	1.00005331
39 43	7828051.179	30.84333	1.00005754
39 44	7826200.579	30.84355	1.00006186
39 45	7824349.966	30.84378	1.00006627
39 46	7822499.339	30.84401	1.00007076
39 47	7820648.699	30.84424	1.00007534
39 48	7818798.045	30.84447	1.00008000
39 49	7816947.376	30.84471	1.00008475

Lat	R (meters)	tab diff.	k
39°50'	7815096.694	30.84495	1.00008958
39 51	7813245.997	30.84519	1.00009450
39 52	7811395.286	30.84543	1.00009950
39 53	7809544.560	30.84568	1.00010459
39 54	7807693.819	30.84593	1.00010977
39 55	7805843.063	30.84618	1.00011503
39 56	7803992.292	30.84644	1.00012038
39 57	7802141.506	30.84670	1.00012581
39 58	7800290.704	30.84696	1.00013133
39 59	7798439.887	30.84722	1.00013693
40 0	7796589.053	30.84749	1.00014262

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MASSACHUSETTS IS

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 41° 0' (latitude of grid origin)
λ_{CM} = 70 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 41 17 (southern standard parallel)
ϕ_n = 41 29 (northern standard parallel)
E_o = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.661093979592 = $\sin(\phi_o)$
K = 12223979.6222 m (mapping radius at the equator)
R_b = 7291990.4498 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_o$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 23 0.00000 71 0 0.00000	7249418.113 m -0 19 49.96916	-0.0057691013 0.9999833586	458177.373 m 42692.978 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000 m 50000.000 m	50000.000 m 7241990.450 m	7242163.0522 m 0 23 44.06656	41 26 55.1683 69 54 5.8939

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MASSACHUSETTS IS

Lat	R (meters)	tab diff.	k
41° 0'	7291990.450	30.84896	1.00002074
41 1	7290139.512	30.84900	1.00001885
41 2	7288288.572	30.84903	1.00001704
41 3	7286437.630	30.84907	1.00001532
41 4	7284586.686	30.84911	1.00001368
41 5	7282735.740	30.84915	1.00001212
41 6	7280884.791	30.84920	1.00001065
41 7	7279033.839	30.84924	1.00000926
41 8	7277182.884	30.84930	1.00000796
41 9	7275331.927	30.84935	1.00000674
41 10	7273480.966	30.84940	1.00000560
41 11	7271630.002	30.84946	1.00000455
41 12	7269779.034	30.84952	1.00000358
41 13	7267928.062	30.84959	1.00000270
41 14	7266077.087	30.84965	1.00000190
41 15	7264226.108	30.84972	1.00000118
41 16	7262375.125	30.84979	1.00000055
41 17	7260524.137	30.84987	1.00000000
41 18	7258673.145	30.84994	0.99999954
41 19	7256822.148	30.85002	0.99999916
41 20	7254971.147	30.85011	0.99999886
41 21	7253120.141	30.85019	0.99999865
41 22	7251269.129	30.85028	0.99999852
41 23	7249418.113	30.85037	0.99999848
41 24	7247567.091	30.85046	0.99999852
41 25	7245716.063	30.85055	0.99999865
41 26	7243865.030	30.85065	0.99999886
41 27	7242013.991	30.85075	0.99999916
41 28	7240162.946	30.85085	0.99999954
41 29	7238311.895	30.85096	1.0000000
41 30	7236460.837	30.85107	1.00000055
41 31	7234609.773	30.85118	1.00000118
41 32	7232758.702	30.85129	1.00000190
41 33	7230907.625	30.85141	1.00000270
41 34	7229056.540	30.85152	1.00000359
41 35	7227205.449	30.85165	1.00000456
41 36	7225354.350	30.85177	1.00000561
41 37	7223503.244	30.85190	1.00000675
41 38	7221652.130	30.85202	1.00000798
41 39	7219801.009	30.85216	1.00000929

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MASSACHUSETTS MAIN

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 41° 0' (latitude of grid origin)
λ_{CM} = 71 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 41 43 (southern standard parallel)
ϕ_n = 42 41 (northern standard parallel)
E_o = 200000.0000 m (easting coordinate of origin)
N_b = 750000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.671728673921 = \sin(\phi_o)$
K = 12132804.7336 m (mapping radius at the equator)
R_b = 7177701.7404 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	42 12 0.00000 72 0 0.00000	7044418.155 m -0 20 9.11161	-0.0058619049 0.9999828189	158706.290 m 883404.617 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	250000.000 m 890000.000 m	50000.000 m 7037701.740 m	7037879.3530 m 0 24 25.40265	42 15 31.9283 70 53 38.4605

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MASSACHUSETTS MAIN

Lat	R (meters)	tab diff.	k
41° 0'	7177701.740	30.85387	1.00018194
41 1	7175850.508	30.85378	1.00017596
41 2	7173999.281	30.85369	1.00017007
41 3	7172148.060	30.85360	1.00016426
41 4	7170296.844	30.85351	1.00015853
41 5	7168445.633	30.85343	1.00015289
41 6	7166594.427	30.85335	1.00014733
41 7	7164743.226	30.85327	1.00014185
41 8	7162892.030	30.85320	1.00013645
41 9	7161040.838	30.85312	1.00013114
41 10	7159189.651	30.85305	1.00012591
41 11	7157338.468	30.85298	1.00012076
41 12	7155487.289	30.85292	1.00011570
41 13	7153636.114	30.85286	1.00011072
41 14	7151784.942	30.85280	1.00010582
41 15	7149933.775	30.85274	1.00010100
41 16	7148082.610	30.85268	1.00009627
41 17	7146231.449	30.85263	1.00009162
41 18	7144380.291	30.85258	1.00008706
41 19	7142529.137	30.85253	1.00008258
41 20	7140677.985	30.85249	1.00007818
41 21	7138826.835	30.85245	1.00007386
41 22	7136975.688	30.85241	1.00006963
41 23	7135124.544	30.85237	1.00006548
41 24	7133273.402	30.85234	1.00006141
41 25	7131422.262	30.85230	1.00005743
41 26	7129571.123	30.85227	1.00005353
41 27	7127719.987	30.85225	1.00004971
41 28	7125868.852	30.85222	1.00004598
41 29	7124017.719	30.85220	1.00004233
41 30	7122166.587	30.85218	1.00003876
41 31	7120315.456	30.85217	1.00003528
41 32	7118464.326	30.85215	1.00003188
41 33	7116613.197	30.85214	1.00002857
41 34	7114762.068	30.85213	1.00002533
41 35	7112910.940	30.85213	1.00002218
41 36	7111059.813	30.85212	1.00001912
41 37	7109208.685	30.85212	1.00001614
41 38	7107357.558	30.85212	1.00001324
41 39	7105506.431	30.85213	1.00001042

Lambert conformal conic projection tables
MASSACHUSETTS MAIN

Lat	R (meters)	tab diff.	k
41° 40'	7103655.303	30.85213	1.00000769
41 41	7101804.175	30.85214	1.00000504
41 42	7099953.046	30.85216	1.00000248
41 43	7098101.917	30.85217	1.00000000
41 44	7096250.787	30.85219	0.99999760
41 45	7094399.655	30.85221	0.99999529
41 46	7092548.523	30.85223	0.99999306
41 47	7090697.389	30.85225	0.99999092
41 48	7088846.254	30.85228	0.99998885
41 49	7086995.117	30.85231	0.99998688
41 50	7085143.978	30.85234	0.99998498
41 51	7083292.838	30.85238	0.99998317
41 52	7081441.695	30.85242	0.99998144
41 53	7079590.550	30.85246	0.99997980
41 54	7077739.402	30.85250	0.99997824
41 55	7075888.252	30.85255	0.99997677
41 56	7074037.100	30.85260	0.99997538
41 57	7072185.944	30.85265	0.99997407
41 58	7070334.785	30.85270	0.99997285
41 59	7068483.623	30.85276	0.99997171
42 0	7066632.458	30.85281	0.99997065
42 1	7064781.289	30.85288	0.99996968
42 2	7062930.116	30.85294	0.99996879
42 3	7061078.940	30.85301	0.99996799
42 4	7059227.760	30.85307	0.99996727
42 5	7057376.575	30.85315	0.99996664
42 6	7055525.386	30.85322	0.99996609
42 7	7053674.193	30.85330	0.99996562
42 8	7051822.995	30.85338	0.99996524
42 9	7049971.793	30.85346	0.99996494
42 10	7048120.585	30.85354	0.99996473
42 11	7046269.373	30.85363	0.99996460
42 12	7044418.155	30.85372	0.99996455
42 13	7042566.932	30.85381	0.99996459
42 14	7040715.703	30.85391	0.99996471
42 15	7038864.468	30.85401	0.99996492
42 16	7037013.228	30.85411	0.99996521
42 17	7035161.981	30.85421	0.99996559
42 18	7033310.729	30.85431	0.99996605
42 19	7031459.470	30.85442	0.99996659

Lambert conformal conic projection tables
MASSACHUSETTS MAIN

Lat	R (meters)	tab diff.	k
42° 20'	7029608.205	30.85453	0.99996722
42 21	7027756.933	30.85465	0.99996794
42 22	7025905.654	30.85476	0.99996874
42 23	7024054.368	30.85488	0.99996962
42 24	7022203.075	30.85500	0.99997059
42 25	7020351.775	30.85513	0.99997164
42 26	7018500.467	30.85525	0.99997278
42 27	7016649.152	30.85538	0.99997400
42 28	7014797.829	30.85551	0.99997531
42 29	7012946.499	30.85565	0.99997670
42 30	7011095.160	30.85578	0.99997817
42 31	7009243.813	30.85592	0.99997973
42 32	7007392.457	30.85607	0.99998138
42 33	7005541.093	30.85621	0.99998311
42 34	7003689.721	30.85636	0.99998492
42 35	7001838.339	30.85651	0.99998682
42 36	6999986.949	30.85666	0.99998881
42 37	6998135.549	30.85682	0.99999087
42 38	6996284.140	30.85697	0.99999303
42 39	6994432.721	30.85713	0.99999527
42 40	6992581.293	30.85730	0.99999759
42 41	6990729.855	30.85746	1.00000000
42 42	6988878.408	30.85763	1.00000249
42 43	6987026.950	30.85780	1.00000507
42 44	6985175.482	30.85798	1.00000774
42 45	6983324.003	30.85815	1.00001049
42 46	6981472.514	30.85833	1.00001332
42 47	6979621.014	30.85851	1.00001624
42 48	6977769.503	30.85870	1.00001924
42 49	6975917.981	30.85888	1.00002233
42 50	6974066.448	30.85907	1.00002551
42 51	6972214.904	30.85927	1.00002877
42 52	6970363.348	30.85946	1.00003211
42 53	6968511.780	30.85966	1.00003554
42 54	6966660.201	30.85986	1.00003906
42 55	6964808.609	30.86006	1.00004266
42 56	6962957.005	30.86027	1.00004634
42 57	6961105.390	30.86047	1.00005011
42 58	6959253.761	30.86068	1.00005397
42 59	6957402.120	30.86090	1.00005791

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MICHIGAN CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 43° 19' (latitude of grid origin)
λ_{CM} = 84 22 (longitude of origin and Central Meridian, CM)
ϕ_s = 44 11 (southern standard parallel)
ϕ_n = 45 42 (northern standard parallel)
E. =6000000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.706407406862 = sin(ϕ.)
K = 11878338.0174 m (mapping radius at the equator)
R_b = 6581660.2321 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	44 56 30.00000 84 52 0.00000	6401090.467 m -0 21 11.53333	-0.0061645285 0.9999809991	5960540.295 m 180691.392 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	6040000.000 m 190000.000 m	40000.000 m 6391660.232 m	6391785.3940 m 0 21 30.82026	45 1 31.4554 83 51 32.6972

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MICHIGAN CENTRAL

Lat	R (meters)	tab diff.	k
43° 19'	6581660.232	30.87032	1.00031071
43 20	6579808.013	30.87016	1.00030263
43 21	6577955.804	30.87000	1.00029463
43 22	6576103.603	30.86985	1.00028672
43 23	6574251.412	30.86970	1.00027888
43 24	6572399.230	30.86955	1.00027113
43 25	6570547.057	30.86941	1.00026347
43 26	6568694.892	30.86927	1.00025588
43 27	6566842.737	30.86913	1.00024838
43 28	6564990.589	30.86899	1.00024095
43 29	6563138.450	30.86885	1.00023362
43 30	6561286.318	30.86872	1.00022636
43 31	6559434.195	30.86859	1.00021918
43 32	6557582.080	30.86846	1.00021209
43 33	6555729.972	30.86834	1.00020508
43 34	6553877.872	30.86822	1.00019816
43 35	6552025.778	30.86810	1.00019131
43 36	6550173.693	30.86798	1.00018455
43 37	6548321.614	30.86787	1.00017787
43 38	6546469.542	30.86775	1.00017127
43 39	6544617.477	30.86764	1.00016476
43 40	6542765.418	30.86754	1.00015833
43 41	6540913.366	30.86743	1.00015198
43 42	6539061.320	30.86733	1.00014571
43 43	6537209.280	30.86723	1.00013953
43 44	6535357.246	30.86714	1.00013342
43 45	6533505.218	30.86704	1.00012740
43 46	6531653.195	30.86695	1.00012147
43 47	6529801.178	30.86686	1.00011562
43 48	6527949.167	30.86677	1.00010984
43 49	6526097.160	30.86669	1.00010416
43 50	6524245.159	30.86661	1.00009855
43 51	6522393.162	30.86653	1.00009303
43 52	6520541.170	30.86645	1.00008759
43 53	6518689.183	30.86638	1.00008223
43 54	6516837.200	30.86631	1.00007696
43 55	6514985.222	30.86624	1.00007177
43 56	6513133.247	30.86617	1.00006666
43 57	6511281.277	30.86611	1.00006163
43 58	6509429.310	30.86605	1.00005669

Lambert conformal conic projection tables
MICHIGAN CENTRAL

Lat	R (meters)	tab diff.	k
43° 59'	6507577.347	30.86599	1.00005183
44 0	6505725.387	30.86594	1.00004706
44 1	6503873.431	30.86588	1.00004236
44 2	6502021.478	30.86583	1.00003775
44 3	6500169.528	30.86578	1.00003323
44 4	6498317.581	30.86574	1.00002878
44 5	6496465.637	30.86570	1.00002442
44 6	6494613.695	30.86566	1.00002014
44 7	6492761.756	30.86562	1.00001595
44 8	6490909.818	30.86558	1.00001184
44 9	6489057.884	30.86555	1.00000781
44 10	6487205.950	30.86552	1.00000386
44 11	6485354.019	30.86549	1.00000000
44 12	6483502.090	30.86547	0.99999622
44 13	6481650.162	30.86545	0.99999253
44 14	6479798.235	30.86543	0.99998891
44 15	6477946.309	30.86541	0.99998538
44 16	6476094.385	30.86539	0.99998194
44 17	6474242.461	30.86538	0.99997858
44 18	6472390.538	30.86537	0.99997530
44 19	6470538.616	30.86537	0.99997210
44 20	6468686.694	30.86536	0.99996899
44 21	6466834.772	30.86536	0.99996596
44 22	6464982.851	30.86536	0.99996302
44 23	6463130.929	30.86536	0.99996016
44 24	6461279.007	30.86537	0.99995738
44 25	6459427.085	30.86538	0.99995468
44 26	6457575.163	30.86539	0.99995207
44 27	6455723.239	30.86540	0.99994955
44 28	6453871.315	30.86542	0.99994710
44 29	6452019.390	30.86544	0.99994474
44 30	6450167.464	30.86546	0.99994247
44 31	6448315.536	30.86548	0.99994027
44 32	6446463.607	30.86551	0.99993816
44 33	6444611.676	30.86554	0.99993614
44 34	6442759.744	30.86557	0.99993420
44 35	6440907.810	30.86561	0.99993234
44 36	6439055.873	30.86564	0.99993057
44 37	6437203.935	30.86568	0.99992887
44 38	6435351.994	30.86572	0.99992727

Lambert conformal conic projection tables
MICHIGAN CENTRAL

Lat	R (meters)	tab diff.	k
44° 39'	6433500.050	30.86577	0.99992575
44 40	6431648.104	30.86582	0.99992431
44 41	6429796.155	30.86587	0.99992295
44 42	6427944.203	30.86592	0.99992168
44 43	6426092.248	30.86597	0.99992050
44 44	6424240.290	30.86603	0.99991939
44 45	6422388.328	30.86609	0.99991837
44 46	6420536.362	30.86615	0.99991744
44 47	6418684.393	30.86622	0.99991659
44 48	6416832.420	30.86629	0.99991582
44 49	6414980.443	30.86636	0.99991514
44 50	6413128.461	30.86643	0.99991454
44 51	6411276.475	30.86651	0.99991403
44 52	6409424.484	30.86659	0.99991360
44 53	6407572.489	30.86667	0.99991325
44 54	6405720.489	30.86675	0.99991299
44 55	6403868.484	30.86684	0.99991281
44 56	6402016.474	30.86693	0.99991272
44 57	6400164.458	30.86702	0.99991271
44 58	6398312.437	30.86711	0.99991279
44 59	6396460.410	30.86721	0.99991295
45 0	6394608.378	30.86731	0.99991319
45 1	6392756.339	30.86741	0.99991352
45 2	6390904.295	30.86752	0.99991394
45 3	6389052.244	30.86762	0.99991443
45 4	6387200.186	30.86773	0.99991502
45 5	6385348.122	30.86784	0.99991568
45 6	6383496.052	30.86796	0.99991643
45 7	6381643.974	30.86808	0.99991727
45 8	6379791.890	30.86820	0.99991819
45 9	6377939.798	30.86832	0.99991920
45 10	6376087.699	30.86845	0.99992029
45 11	6374235.592	30.86857	0.99992146
45 12	6372383.478	30.86870	0.99992272
45 13	6370531.355	30.86884	0.99992406
45 14	6368679.225	30.86897	0.99992549
45 15	6366827.087	30.86911	0.99992700
45 16	6364974.940	30.86925	0.99992860
45 17	6363122.785	30.86940	0.99993029
45 18	6361270.621	30.86954	0.99993205

Lambert conformal conic projection tables
MICHIGAN CENTRAL

Lat	R (meters)	tab diff.	k
45° 19'	6359418.449	30.86969	0.99993391
45 20	6357566.267	30.86984	0.99993584
45 21	6355714.076	30.87000	0.99993787
45 22	6353861.877	30.87015	0.99993997
45 23	6352009.667	30.87031	0.99994217
45 24	6350157.449	30.87048	0.99994444
45 25	6348305.220	30.87064	0.99994680
45 26	6346452.982	30.87081	0.99994925
45 27	6344600.733	30.87098	0.99995178
45 28	6342748.474	30.87115	0.99995440
45 29	6340896.205	30.87133	0.99995711
45 30	6339043.926	30.87150	0.99995989
45 31	6337191.636	30.87168	0.99996277
45 32	6335339.335	30.87187	0.99996572
45 33	6333487.022	30.87205	0.99996877
45 34	6331634.699	30.87224	0.99997190
45 35	6329782.365	30.87243	0.99997511
45 36	6327930.019	30.87263	0.99997841
45 37	6326077.661	30.87282	0.99998180
45 38	6324225.292	30.87302	0.99998527
45 39	6322372.911	30.87322	0.99998882
45 40	6320520.517	30.87343	0.99999246
45 41	6318668.112	30.87363	0.99999619
45 42	6316815.694	30.87384	1.00000000
45 43	6314963.263	30.87406	1.00000390
45 44	6313110.820	30.87427	1.00000788
45 45	6311258.364	30.87449	1.00001195
45 46	6309405.894	30.87471	1.00001610
45 47	6307553.412	30.87493	1.00002034
45 48	6305700.916	30.87516	1.00002467
45 49	6303848.407	30.87538	1.00002908
45 50	6301995.884	30.87561	1.00003358
45 51	6300143.347	30.87585	1.00003816
45 52	6298290.796	30.87608	1.00004283
45 53	6296438.231	30.87632	1.00004758
45 54	6294585.652	30.87656	1.00005242
45 55	6292733.058	30.87681	1.00005735
45 56	6290880.450	30.87705	1.00006236
45 57	6289027.826	30.87730	1.00006746
45 58	6287175.188	30.87755	1.00007264

Lambert conformal conic projection tables
MICHIGAN CENTRAL

Lat	R (meters)	tab diff.	k
45° 59'	6285322.535	30.87781	1.00007791
46 0	6283469.866	30.87807	1.00008326
46 1	6281617.182	30.87833	1.00008870
46 2	6279764.483	30.87859	1.00009423

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MICHIGAN NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 44° 47' (latitude of grid origin)
λ_{CM} = 87 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 45 29 (southern standard parallel)
ϕ_n = 47 5 (northern standard parallel)
E_o =8000000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.722789934733 = $\sin(\phi_o)$
K = 11779843.7720 m (mapping radius at the equator)
R_b = 6275243.8434 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	46 17 0.00000 87 30 0.00000	6108527.815 m -0 21 41.02188	-0.0063074903 0.9999801076	7961470.520 m 166837.542 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	8040000.000 m 170000.000 m	40000.000 m 6105243.843 m	6105374.8769 m 0 22 31.37505	46 18 42.1228 86 28 50.3350

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
44° 47'	6275243.843	30.87617	1.00024228
44 48	6273391.273	30.87603	1.00023482
44 49	6271538.711	30.87590	1.00022745
44 50	6269686.157	30.87576	1.00022015
44 51	6267833.612	30.87563	1.00021294
44 52	6265981.074	30.87550	1.00020580
44 53	6264128.544	30.87538	1.00019875
44 54	6262276.021	30.87525	1.00019179
44 55	6260423.506	30.87513	1.00018490
44 56	6258570.998	30.87502	1.00017810
44 57	6256718.497	30.87490	1.00017138
44 58	6254866.003	30.87479	1.00016474
44 59	6253013.515	30.87468	1.00015819
45 0	6251161.035	30.87457	1.00015172
45 1	6249308.561	30.87446	1.00014533
45 2	6247456.093	30.87436	1.00013902
45 3	6245603.631	30.87426	1.00013280
45 4	6243751.176	30.87416	1.00012665
45 5	6241898.726	30.87407	1.00012059
45 6	6240046.282	30.87397	1.00011462
45 7	6238193.844	30.87388	1.00010872
45 8	6236341.411	30.87380	1.00010291
45 9	6234488.983	30.87371	1.00009718
45 10	6232636.560	30.87363	1.00009154
45 11	6230784.143	30.87355	1.00008597
45 12	6228931.730	30.87347	1.00008049
45 13	6227079.322	30.87340	1.00007509
45 14	6225226.918	30.87332	1.00006978
45 15	6223374.519	30.87325	1.00006455
45 16	6221522.123	30.87319	1.00005940
45 17	6219669.732	30.87312	1.00005433
45 18	6217817.345	30.87306	1.00004935
45 19	6215964.961	30.87300	1.00004444
45 20	6214112.581	30.87294	1.00003963
45 21	6212260.205	30.87289	1.00003489
45 22	6210407.831	30.87284	1.00003024
45 23	6208555.461	30.87279	1.00002567
45 24	6206703.094	30.87274	1.00002118
45 25	6204850.730	30.87270	1.00001678
45 26	6202998.368	30.87265	1.00001246

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
45° 27'	6201146.008	30.87262	1.00000822
45 28	6199293.652	30.87258	1.00000407
45 29	6197441.297	30.87255	1.00000000
45 30	6195588.944	30.87251	0.99999601
45 31	6193736.593	30.87249	0.99999211
45 32	6191884.244	30.87246	0.99998829
45 33	6190031.897	30.87244	0.99998455
45 34	6188179.550	30.87241	0.99998089
45 35	6186327.206	30.87240	0.99997732
45 36	6184474.862	30.87238	0.99997383
45 37	6182622.519	30.87237	0.99997043
45 38	6180770.177	30.87236	0.99996711
45 39	6178917.836	30.87235	0.99996387
45 40	6177065.495	30.87234	0.99996072
45 41	6175213.154	30.87234	0.99995764
45 42	6173360.814	30.87234	0.99995466
45 43	6171508.474	30.87234	0.99995175
45 44	6169656.133	30.87235	0.99994893
45 45	6167803.793	30.87235	0.99994619
45 46	6165951.451	30.87236	0.99994354
45 47	6164099.110	30.87237	0.99994097
45 48	6162246.767	30.87239	0.99993848
45 49	6160394.424	30.87241	0.99993608
45 50	6158542.079	30.87243	0.99993376
45 51	6156689.734	30.87245	0.99993152
45 52	6154837.387	30.87248	0.99992937
45 53	6152985.038	30.87250	0.99992730
45 54	6151132.688	30.87253	0.99992532
45 55	6149280.336	30.87257	0.99992342
45 56	6147427.982	30.87260	0.99992160
45 57	6145575.626	30.87264	0.99991987
45 58	6143723.268	30.87268	0.99991822
45 59	6141870.907	30.87272	0.99991665
46 0	6140018.543	30.87277	0.99991517
46 1	6138166.177	30.87282	0.99991377
46 2	6136313.808	30.87287	0.99991246
46 3	6134461.436	30.87292	0.99991123
46 4	6132609.060	30.87298	0.99991008
46 5	6130756.681	30.87304	0.99990902
46 6	6128904.299	30.87310	0.99990804

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
46° 7'	6127051.913	30.87316	0.99990715
46 8	6125199.523	30.87323	0.99990634
46 9	6123347.129	30.87330	0.99990561
46 10	6121494.731	30.87337	0.99990497
46 11	6119642.329	30.87345	0.99990441
46 12	6117789.922	30.87352	0.99990394
46 13	6115937.510	30.87360	0.99990355
46 14	6114085.094	30.87369	0.99990324
46 15	6112232.673	30.87377	0.99990302
46 16	6110380.247	30.87386	0.99990289
46 17	6108527.815	30.87395	0.99990284
46 18	6106675.378	30.87404	0.99990287
46 19	6104822.936	30.87414	0.99990298
46 20	6102970.488	30.87423	0.99990318
46 21	6101118.034	30.87434	0.99990347
46 22	6099265.573	30.87444	0.99990384
46 23	6097413.107	30.87454	0.99990429
46 24	6095560.634	30.87465	0.99990483
46 25	6093708.155	30.87476	0.99990546
46 26	6091855.669	30.87488	0.99990616
46 27	6090003.177	30.87499	0.99990696
46 28	6088150.677	30.87511	0.99990783
46 29	6086298.171	30.87523	0.99990879
46 30	6084445.657	30.87536	0.99990984
46 31	6082593.135	30.87548	0.99991097
46 32	6080740.606	30.87561	0.99991219
46 33	6078888.069	30.87574	0.99991349
46 34	6077035.525	30.87588	0.99991487
46 35	6075182.972	30.87602	0.99991634
46 36	6073330.411	30.87616	0.99991790
46 37	6071477.841	30.87630	0.99991954
46 38	6069625.264	30.87644	0.99992126
46 39	6067772.677	30.87659	0.99992307
46 40	6065920.081	30.87674	0.99992497
46 41	6064067.477	30.87689	0.99992694
46 42	6062214.863	30.87705	0.99992901
46 43	6060362.240	30.87721	0.99993116
46 44	6058509.608	30.87737	0.99993339
46 45	6056656.966	30.87753	0.99993571
46 46	6054804.314	30.87770	0.99993812

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
46° 47'	6052951.652	30.87787	0.99994060
46 48	6051098.980	30.87804	0.99994318
46 49	6049246.298	30.87821	0.99994584
46 50	6047393.605	30.87839	0.99994858
46 51	6045540.902	30.87857	0.99995141
46 52	6043688.188	30.87875	0.99995433
46 53	6041835.463	30.87893	0.99995733
46 54	6039982.727	30.87912	0.99996042
46 55	6038129.980	30.87931	0.99996359
46 56	6036277.222	30.87950	0.99996684
46 57	6034424.452	30.87970	0.99997019
46 58	6032571.670	30.87989	0.99997361
46 59	6030718.876	30.88009	0.99997713
47 0	6028866.071	30.88030	0.99998072
47 1	6027013.253	30.88050	0.99998441
47 2	6025160.423	30.88071	0.99998818
47 3	6023307.580	30.88092	0.99999203
47 4	6021454.725	30.88113	0.99999597
47 5	6019601.857	30.88135	1.00000000
47 6	6017748.976	30.88157	1.00000411
47 7	6015896.082	30.88179	1.00000831
47 8	6014043.175	30.88201	1.00001259
47 9	6012190.254	30.88224	1.00001696
47 10	6010337.320	30.88247	1.00002142
47 11	6008484.372	30.88270	1.00002596
47 12	6006631.410	30.88293	1.00003058
47 13	6004778.434	30.88317	1.00003530
47 14	6002925.443	30.88341	1.00004009
47 15	6001072.439	30.88365	1.00004498
47 16	5999219.419	30.88390	1.00004995
47 17	5997366.385	30.88415	1.00005500
47 18	5995513.337	30.88440	1.00006015
47 19	5993660.273	30.88465	1.00006537
47 20	5991807.194	30.88491	1.00007069
47 21	5989954.099	30.88516	1.00007609
47 22	5988100.989	30.88543	1.00008157
47 23	5986247.864	30.88569	1.00008715
47 24	5984394.723	30.88596	1.00009281
47 25	5982541.565	30.88622	1.00009855
47 26	5980688.392	30.88650	1.00010438

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
47° 27'	5978835.202	30.88677	1.00011030
47 28	5976981.996	30.88705	1.00011630
47 29	5975128.773	30.88733	1.00012239
47 30	5973275.533	30.88761	1.00012857
47 31	5971422.277	30.88789	1.00013483
47 32	5969569.003	30.88818	1.00014118
47 33	5967715.712	30.88847	1.00014762
47 34	5965862.404	30.88876	1.00015414
47 35	5964009.078	30.88906	1.00016075
47 36	5962155.734	30.88936	1.00016744
47 37	5960302.373	30.88966	1.00017422
47 38	5958448.993	30.88996	1.00018109
47 39	5956595.596	30.89027	1.00018805
47 40	5954742.179	30.89058	1.00019509
47 41	5952888.745	30.89089	1.00020222
47 42	5951035.291	30.89120	1.00020943
47 43	5949181.819	30.89152	1.00021673
47 44	5947328.328	30.89184	1.00022412
47 45	5945474.817	30.89216	1.00023160
47 46	5943621.287	30.89249	1.00023916
47 47	5941767.738	30.89282	1.00024681
47 48	5939914.169	30.89315	1.00025454
47 49	5938060.580	30.89348	1.00026237
47 50	5936206.971	30.89382	1.00027028
47 51	5934353.342	30.89415	1.00027827
47 52	5932499.693	30.89450	1.00028636
47 53	5930646.023	30.89484	1.00029453
47 54	5928792.333	30.89519	1.00030279
47 55	5926938.622	30.89554	1.00031113
47 56	5925084.890	30.89589	1.00031957
47 57	5923231.137	30.89624	1.00032809
47 58	5921377.362	30.89660	1.00033669
47 59	5919523.566	30.89696	1.00034539
48 0	5917669.749	30.89732	1.00035417
48 1	5915815.909	30.89769	1.00036304
48 2	5913962.048	30.89805	1.00037199
48 3	5912108.165	30.89843	1.00038104
48 4	5910254.259	30.89880	1.00039017
48 5	5908400.331	30.89918	1.00039939
48 6	5906546.381	30.89955	1.00040869

Lambert conformal conic projection tables
MICHIGAN NORTH

Lat	R (meters)	tab diff.	k
48° 7'	5904692.408	30.89994	1.00041809
48 8	5902838.411	30.90032	1.00042757
48 9	5900984.392	30.90071	1.00043714
48 10	5899130.350	30.90110	1.00044679
48 11	5897276.284	30.90149	1.00045654
48 12	5895422.195	30.90188	1.00046637
48 13	5893568.082	30.90228	1.00047629
48 14	5891713.945	30.90268	1.00048630
48 15	5889859.784	30.90309	1.00049639
48 16	5888005.599	30.90349	1.00050658
48 17	5886151.389	30.90390	1.00051685
48 18	5884297.155	30.90431	1.00052721
48 19	5882442.897	30.90473	1.00053765
48 20	5880588.613	30.90514	1.00054819
48 21	5878734.305	30.90556	1.00055881
48 22	5876879.971	30.90598	1.00056952
48 23	5875025.612	30.90641	1.00058032
48 24	5873171.227	30.90684	1.00059121

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MICHIGAN SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 41°30' (latitude of grid origin)
λ_{CM} = 84 22 (longitude of origin and Central Meridian, CM)
ϕ_s = 42 6 (southern standard parallel)
ϕ_n = 43 40 (northern standard parallel)
E. =4000000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.680529259912 = sin(ϕ.)
K = 12061671.8385 m (mapping radius at the equator)
R_b = 7031167.2907 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	42 53 0.00000 84 52 0.00000	6877510.221 m -0 20 24.95267	-0.0059387032 0.9999823657	3959156.508 m 153778.350 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	4050000.000 m 160000.000 m	50000.000 m 6871167.291 m	6871349.2079 m 0 25 0.91794	42 56 19.6715 83 45 14.4843

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MICHIGAN SOUTH

Lat	R (meters)	tab diff.	k
41° 30'	7031167.291	30.85698	1.00019586
41 31	7029315.872	30.85686	1.00018897
41 32	7027464.461	30.85674	1.00018217
41 33	7025613.057	30.85662	1.00017544
41 34	7023761.659	30.85651	1.00016880
41 35	7021910.269	30.85639	1.00016224
41 36	7020058.885	30.85629	1.00015576
41 37	7018207.508	30.85618	1.00014937
41 38	7016356.137	30.85608	1.00014306
41 39	7014504.773	30.85597	1.00013683
41 40	7012653.414	30.85588	1.00013068
41 41	7010802.062	30.85578	1.00012462
41 42	7008950.715	30.85569	1.00011864
41 43	7007099.374	30.85560	1.00011274
41 44	7005248.038	30.85551	1.00010693
41 45	7003396.708	30.85542	1.00010120
41 46	7001545.382	30.85534	1.00009555
41 47	6999694.062	30.85526	1.00008998
41 48	6997842.747	30.85518	1.00008450
41 49	6995991.436	30.85510	1.00007910
41 50	6994140.129	30.85503	1.00007378
41 51	6992288.828	30.85496	1.00006855
41 52	6990437.530	30.85489	1.00006340
41 53	6988586.236	30.85483	1.00005833
41 54	6986734.947	30.85477	1.00005334
41 55	6984883.661	30.85471	1.00004844
41 56	6983032.378	30.85465	1.00004362
41 57	6981181.100	30.85459	1.00003888
41 58	6979329.824	30.85454	1.00003423
41 59	6977478.552	30.85449	1.00002966
42 0	6975627.282	30.85444	1.00002517
42 1	6973776.015	30.85440	1.00002077
42 2	6971924.752	30.85436	1.00001645
42 3	6970073.490	30.85432	1.00001221
42 4	6968222.231	30.85428	1.00000806
42 5	6966370.974	30.85425	1.00000399
42 6	6964519.720	30.85421	1.00000000
42 7	6962668.467	30.85418	0.99999610
42 8	6960817.216	30.85416	0.99999227
42 9	6958965.966	30.85413	0.99998854

Lambert conformal conic projection tables
MICHIGAN SOUTH

Lat	R (meters)	tab diff.	k
42° 10'	6957114.718	30.85411	0.99998488
42 11	6955263.471	30.85409	0.99998131
42 12	6953412.226	30.85408	0.99997782
42 13	6951560.981	30.85406	0.99997442
42 14	6949709.737	30.85405	0.99997110
42 15	6947858.494	30.85404	0.99996786
42 16	6946007.252	30.85404	0.99996471
42 17	6944156.009	30.85403	0.99996164
42 18	6942304.767	30.85403	0.99995865
42 19	6940453.525	30.85403	0.99995575
42 20	6938602.283	30.85404	0.99995293
42 21	6936751.041	30.85405	0.99995019
42 22	6934899.798	30.85406	0.99994754
42 23	6933048.555	30.85407	0.99994497
42 24	6931197.311	30.85408	0.99994248
42 25	6929346.066	30.85410	0.99994008
42 26	6927494.820	30.85412	0.99993776
42 27	6925643.573	30.85414	0.99993553
42 28	6923792.324	30.85417	0.99993338
42 29	6921941.074	30.85419	0.99993131
42 30	6920089.823	30.85422	0.99992933
42 31	6918238.569	30.85426	0.99992743
42 32	6916387.314	30.85429	0.99992561
42 33	6914536.056	30.85433	0.99992388
42 34	6912684.796	30.85437	0.99992223
42 35	6910833.534	30.85441	0.99992067
42 36	6908982.269	30.85446	0.99991919
42 37	6907131.002	30.85451	0.99991779
42 38	6905279.731	30.85456	0.99991648
42 39	6903428.458	30.85461	0.99991525
42 40	6901577.181	30.85467	0.99991410
42 41	6899725.901	30.85473	0.99991304
42 42	6897874.617	30.85479	0.99991207
42 43	6896023.330	30.85485	0.99991118
42 44	6894172.039	30.85492	0.99991037
42 45	6892320.744	30.85499	0.99990964
42 46	6890469.445	30.85506	0.99990900
42 47	6888618.141	30.85513	0.99990845
42 48	6886766.833	30.85521	0.99990797
42 49	6884915.520	30.85529	0.99990759

Lambert conformal conic projection tables
MICHIGAN SOUTH

Lat	R (meters)	tab diff.	k
42° 50'	6883064.203	30.85537	0.99990728
42 51	6881212.881	30.85546	0.99990706
42 52	6879361.553	30.85554	0.99990693
42 53	6877510.221	30.85563	0.99990688
42 54	6875658.883	30.85573	0.99990691
42 55	6873807.539	30.85582	0.99990703
42 56	6871956.190	30.85592	0.99990723
42 57	6870104.835	30.85602	0.99990752
42 58	6868253.473	30.85612	0.99990789
42 59	6866402.106	30.85623	0.99990835
43 0	6864550.732	30.85634	0.99990889
43 1	6862699.352	30.85645	0.99990951
43 2	6860847.965	30.85656	0.99991022
43 3	6858996.572	30.85668	0.99991101
43 4	6857145.171	30.85679	0.99991189
43 5	6855293.764	30.85692	0.99991285
43 6	6853442.349	30.85704	0.99991390
43 7	6851590.926	30.85717	0.99991503
43 8	6849739.496	30.85730	0.99991625
43 9	6847888.058	30.85743	0.99991755
43 10	6846036.613	30.85756	0.99991893
43 11	6844185.159	30.85770	0.99992041
43 12	6842333.697	30.85784	0.99992196
43 13	6840482.227	30.85798	0.99992360
43 14	6838630.748	30.85812	0.99992532
43 15	6836779.261	30.85827	0.99992713
43 16	6834927.764	30.85842	0.99992903
43 17	6833076.259	30.85857	0.99993101
43 18	6831224.744	30.85873	0.99993307
43 19	6829373.221	30.85889	0.99993522
43 20	6827521.687	30.85905	0.99993745
43 21	6825670.144	30.85921	0.99993977
43 22	6823818.592	30.85938	0.99994218
43 23	6821967.029	30.85955	0.99994466
43 24	6820115.456	30.85972	0.99994724
43 25	6818263.873	30.85989	0.99994990
43 26	6816412.280	30.86007	0.99995264
43 27	6814560.676	30.86025	0.99995547
43 28	6812709.061	30.86043	0.99995838
43 29	6810857.435	30.86061	0.99996138

Lambert conformal conic projection tables
MICHIGAN SOUTH

Lat	R (meters)	tab diff.	k
43° 30'	6809005.799	30.86080	0.99996447
43 31	6807154.151	30.86099	0.99996764
43 32	6805302.492	30.86118	0.99997089
43 33	6803450.821	30.86137	0.99997423
43 34	6801599.138	30.86157	0.99997766
43 35	6799747.444	30.86177	0.99998117
43 36	6797895.738	30.86197	0.99998476
43 37	6796044.019	30.86218	0.99998844
43 38	6794192.288	30.86239	0.99999221
43 39	6792340.545	30.86260	0.99999606
43 40	6790488.789	30.86281	1.00000000
43 41	6788637.021	30.86303	1.00000402
43 42	6786785.239	30.86325	1.00000813
43 43	6784933.444	30.86347	1.00001232
43 44	6783081.636	30.86369	1.00001660
43 45	6781229.815	30.86392	1.00002097
43 46	6779377.980	30.86415	1.00002542
43 47	6777526.131	30.86438	1.00002996
43 48	6775674.268	30.86461	1.00003458
43 49	6773822.392	30.86485	1.00003928
43 50	6771970.501	30.86509	1.00004408
43 51	6770118.595	30.86533	1.00004896
43 52	6768266.676	30.86558	1.00005392
43 53	6766414.741	30.86582	1.00005897
43 54	6764562.792	30.86607	1.00006411
43 55	6762710.827	30.86633	1.00006933
43 56	6760858.848	30.86658	1.00007464
43 57	6759006.853	30.86684	1.00008003
43 58	6757154.842	30.86710	1.00008551
43 59	6755302.816	30.86736	1.00009107
44 0	6753450.774	30.86763	1.00009673
44 1	6751598.717	30.86790	1.00010246
44 2	6749746.643	30.86817	1.00010829
44 3	6747894.552	30.86844	1.00011420
44 4	6746042.446	30.86872	1.00012019
44 5	6744190.322	30.86900	1.00012627
44 6	6742338.182	30.86928	1.00013244
44 7	6740486.025	30.86957	1.00013869
44 8	6738633.851	30.86986	1.00014503
44 9	6736781.660	30.87015	1.00015146

Lambert conformal conic projection tables
MICHIGAN SOUTH

Lat	R (meters)	tab diff.	k
44° 10'	6734929.451	30.87044	1.00015797
44 11	6733077.225	30.87073	1.00016457
44 12	6731224.981	30.87103	1.00017125
44 13	6729372.719	30.87133	1.00017803

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MINNESOTA CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 45° 0' (latitude of grid origin)
λ_{CM} = 94 15 (longitude of origin and Central Meridian, CM)
ϕ_s = 45 37 (southern standard parallel)
ϕ_n = 47 3 (northern standard parallel)
E. = 800000.0000 m (easting coordinate of origin)
N_b = 100000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.723388068681 = $\sin(\phi.)$
K = 11776732.4900 m (mapping radius at the equator)
R_b = 6246233.9437 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	46 20 0.00000 94 45 0.00000	6098039.128 m -0 21 42.09852	-0.0063127099 0.9999800746	761504.848 m 248316.322 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	840000.000 m 250000.000 m	40000.000 m 6096233.944 m	6096365.1708 m 0 22 33.37225	46 20 54.2176 93 43 49.1200

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MINNESOTA CENTRAL

Lat	R (meters)	tab diff.	k
45° 0'	6246233.944	30.87576	1.00019042
45 1	6244381.398	30.87565	1.00018378
45 2	6242528.859	30.87554	1.00017723
45 3	6240676.327	30.87543	1.00017076
45 4	6238823.802	30.87532	1.00016437
45 5	6236971.282	30.87522	1.00015807
45 6	6235118.769	30.87512	1.00015184
45 7	6233266.262	30.87502	1.00014570
45 8	6231413.761	30.87493	1.00013965
45 9	6229561.265	30.87483	1.00013367
45 10	6227708.775	30.87474	1.00012778
45 11	6225856.291	30.87466	1.00012197
45 12	6224003.811	30.87457	1.00011624
45 13	6222151.337	30.87449	1.00011060
45 14	6220298.868	30.87441	1.00010504
45 15	6218446.403	30.87433	1.00009956
45 16	6216593.944	30.87426	1.00009416
45 17	6214741.488	30.87418	1.00008885
45 18	6212889.037	30.87411	1.00008362
45 19	6211036.590	30.87405	1.00007847
45 20	6209184.148	30.87398	1.00007340
45 21	6207331.709	30.87392	1.00006842
45 22	6205479.274	30.87386	1.00006352
45 23	6203626.842	30.87380	1.00005871
45 24	6201774.414	30.87375	1.00005397
45 25	6199921.989	30.87370	1.00004932
45 26	6198069.567	30.87365	1.00004476
45 27	6196217.148	30.87360	1.00004027
45 28	6194364.732	30.87356	1.00003587
45 29	6192512.319	30.87352	1.00003155
45 30	6190659.908	30.87348	1.00002732
45 31	6188807.499	30.87344	1.00002317
45 32	6186955.093	30.87341	1.00001910
45 33	6185102.688	30.87338	1.00001511
45 34	6183250.286	30.87335	1.00001121
45 35	6181397.885	30.87332	1.00000739
45 36	6179545.486	30.87330	1.00000365
45 37	6177693.088	30.87328	1.00000000
45 38	6175840.691	30.87326	0.99999643
45 39	6173988.296	30.87324	0.99999294

Lambert conformal conic projection tables
MINNESOTA CENTRAL

Lat	R (meters)	tab diff.	k
45° 40'	6172135.901	30.87323	0.99998954
45 41	6170283.508	30.87322	0.99998622
45 42	6168431.115	30.87321	0.99998299
45 43	6166578.722	30.87320	0.99997983
45 44	6164726.330	30.87320	0.99997676
45 45	6162873.938	30.87320	0.99997378
45 46	6161021.546	30.87320	0.99997087
45 47	6159169.154	30.87321	0.99996806
45 48	6157316.761	30.87321	0.99996532
45 49	6155464.369	30.87322	0.99996267
45 50	6153611.975	30.87324	0.99996010
45 51	6151759.581	30.87325	0.99995761
45 52	6149907.186	30.87327	0.99995521
45 53	6148054.790	30.87329	0.99995290
45 54	6146202.392	30.87331	0.99995066
45 55	6144349.994	30.87334	0.99994851
45 56	6142497.593	30.87337	0.99994645
45 57	6140645.191	30.87340	0.99994446
45 58	6138792.788	30.87343	0.99994256
45 59	6136940.382	30.87346	0.99994075
46 0	6135087.974	30.87350	0.99993902
46 1	6133235.564	30.87354	0.99993737
46 2	6131383.151	30.87359	0.99993580
46 3	6129530.736	30.87363	0.99993432
46 4	6127678.318	30.87368	0.99993293
46 5	6125825.897	30.87373	0.99993162
46 6	6123973.473	30.87379	0.99993039
46 7	6122121.046	30.87384	0.99992924
46 8	6120268.615	30.87390	0.99992818
46 9	6118416.181	30.87396	0.99992721
46 10	6116563.743	30.87403	0.99992632
46 11	6114711.302	30.87409	0.99992551
46 12	6112858.856	30.87416	0.99992478
46 13	6111006.406	30.87424	0.99992414
46 14	6109153.952	30.87431	0.99992359
46 15	6107301.493	30.87439	0.99992312
46 16	6105449.030	30.87447	0.99992273
46 17	6103596.562	30.87455	0.99992243
46 18	6101744.089	30.87463	0.99992221
46 19	6099891.611	30.87472	0.99992207

Lambert conformal conic projection tables
MINNESOTA CENTRAL

Lat	R (meters)	tab diff.	k
46° 20'	6098039.128	30.87481	0.99992202
46 21	6096186.639	30.87491	0.99992206
46 22	6094334.144	30.87500	0.99992218
46 23	6092481.644	30.87510	0.99992238
46 24	6090629.138	30.87520	0.99992267
46 25	6088776.627	30.87530	0.99992304
46 26	6086924.108	30.87541	0.99992349
46 27	6085071.584	30.87552	0.99992403
46 28	6083219.053	30.87563	0.99992466
46 29	6081366.515	30.87574	0.99992537
46 30	6079513.971	30.87586	0.99992616
46 31	6077661.419	30.87598	0.99992704
46 32	6075808.861	30.87610	0.99992801
46 33	6073956.295	30.87622	0.99992905
46 34	6072103.722	30.87635	0.99993019
46 35	6070251.141	30.87648	0.99993141
46 36	6068398.552	30.87661	0.99993271
46 37	6066545.955	30.87674	0.99993409
46 38	6064693.351	30.87688	0.99993557
46 39	6062840.738	30.87702	0.99993712
46 40	6060988.117	30.87716	0.99993876
46 41	6059135.487	30.87731	0.99994049
46 42	6057282.848	30.87746	0.99994230
46 43	6055430.201	30.87761	0.99994420
46 44	6053577.545	30.87776	0.99994618
46 45	6051724.879	30.87791	0.99994825
46 46	6049872.204	30.87807	0.99995040
46 47	6048019.520	30.87823	0.99995263
46 48	6046166.826	30.87840	0.99995495
46 49	6044314.122	30.87856	0.99995736
46 50	6042461.408	30.87873	0.99995985
46 51	6040608.684	30.87890	0.99996243
46 52	6038755.950	30.87908	0.99996509
46 53	6036903.206	30.87925	0.99996784
46 54	6035050.451	30.87943	0.99997067
46 55	6033197.685	30.87961	0.99997359
46 56	6031344.908	30.87980	0.99997659
46 57	6029492.120	30.87998	0.99997968
46 58	6027639.321	30.88017	0.99998285
46 59	6025786.510	30.88037	0.99998611

Lambert conformal conic projection tables
MINNESOTA CENTRAL

Lat	R (meters)	tab diff.	k
47° 0'	6023933.688	30.88056	0.99998945
47 1	6022080.855	30.88076	0.99999288
47 2	6020228.009	30.88096	0.99999640
47 3	6018375.152	30.88116	1.00000000
47 4	6016522.282	30.88137	1.00000369
47 5	6014669.400	30.88158	1.00000746
47 6	6012816.505	30.88179	1.00001131
47 7	6010963.598	30.88200	1.00001526
47 8	6009110.678	30.88222	1.00001929
47 9	6007257.745	30.88243	1.00002340
47 10	6005404.799	30.88266	1.00002760
47 11	6003551.840	30.88288	1.00003189
47 12	6001698.867	30.88311	1.00003626
47 13	5999845.881	30.88334	1.00004071
47 14	5997992.881	30.88357	1.00004526
47 15	5996139.867	30.88380	1.00004988
47 16	5994286.838	30.88404	1.00005460
47 17	5992433.796	30.88428	1.00005940
47 18	5990580.739	30.88452	1.00006429
47 19	5988727.668	30.88477	1.00006926
47 20	5986874.582	30.88501	1.00007432
47 21	5985021.481	30.88526	1.00007946
47 22	5983168.365	30.88552	1.00008469
47 23	5981315.234	30.88577	1.00009001
47 24	5979462.088	30.88603	1.00009541
47 25	5977608.926	30.88629	1.00010090
47 26	5975755.749	30.88656	1.00010647
47 27	5973902.555	30.88682	1.00011213
47 28	5972049.346	30.88709	1.00011788
47 29	5970196.120	30.88736	1.00012371
47 30	5968342.878	30.88764	1.00012963

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MINNESOTA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 46° 30' (latitude of grid origin)
λ_{CM} = 93 6 (longitude of origin and Central Meridian, CM)
ϕ_s = 47 2 (southern standard parallel)
ϕ_n = 48 38 (northern standard parallel)
E_o = 800000.0000 m (easting coordinate of origin)
N_b = 100000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.741219640371 = $\sin(\phi_o)$
K = 11685145.4281 m (mapping radius at the equator)
R_b = 5934713.4739 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	47 50 0.00000 93 36 0.00000	5786482.447 m -0 22 14.19535	-0.0064683165 0.9999790802	762571.200 m 248352.079 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	840000.000 m 250000.000 m	40000.000 m 5784713.474 m	5784851.7678 m 0 23 46.25228	47 50 52.8030 92 33 55.8034

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MINNESOTA NORTH

Lat	R (meters)	tab diff.	k
46° 30'	5934713.474	30.88331	1.00017134
46 31	5932860.475	30.88320	1.00016470
46 32	5931007.483	30.88309	1.00015815
46 33	5929154.498	30.88298	1.00015168
46 34	5927301.519	30.88287	1.00014529
46 35	5925448.547	30.88277	1.00013899
46 36	5923595.580	30.88267	1.00013277
46 37	5921742.620	30.88257	1.00012663
46 38	5919889.666	30.88248	1.00012057
46 39	5918036.717	30.88238	1.00011459
46 40	5916183.774	30.88229	1.00010870
46 41	5914330.836	30.88221	1.00010289
46 42	5912477.904	30.88212	1.00009716
46 43	5910624.977	30.88204	1.00009152
46 44	5908772.054	30.88196	1.00008596
46 45	5906919.137	30.88188	1.00008048
46 46	5905066.224	30.88181	1.00007508
46 47	5903213.316	30.88173	1.00006977
46 48	5901360.412	30.88166	1.00006454
46 49	5899507.512	30.88160	1.00005939
46 50	5897654.616	30.88153	1.00005432
46 51	5895801.724	30.88147	1.00004934
46 52	5893948.836	30.88141	1.00004444
46 53	5892095.951	30.88135	1.00003962
46 54	5890243.070	30.88130	1.00003489
46 55	5888390.192	30.88125	1.00003024
46 56	5886537.318	30.88120	1.00002567
46 57	5884684.446	30.88115	1.00002118
46 58	5882831.577	30.88111	1.00001678
46 59	5880978.711	30.88106	1.00001246
47 0	5879125.847	30.88102	1.00000822
47 1	5877272.985	30.88099	1.00000407
47 2	5875420.126	30.88095	1.00000000
47 3	5873567.269	30.88092	0.99999601
47 4	5871714.414	30.88089	0.99999211
47 5	5869861.560	30.88087	0.99998829
47 6	5868008.708	30.88084	0.99998455
47 7	5866155.857	30.88082	0.99998090
47 8	5864303.008	30.88080	0.99997732
47 9	5862450.160	30.88079	0.99997384

Lambert conformal conic projection tables
MINNESOTA NORTH

Lat	R (meters)	tab diff.	k
47° 10'	5860597.313	30.88077	0.99997043
47 11	5858744.466	30.88076	0.99996711
47 12	5856891.621	30.88075	0.99996387
47 13	5855038.776	30.88075	0.99996072
47 14	5853185.931	30.88074	0.99995765
47 15	5851333.086	30.88074	0.99995466
47 16	5849480.242	30.88075	0.99995175
47 17	5847627.397	30.88075	0.99994893
47 18	5845774.552	30.88076	0.99994619
47 19	5843921.706	30.88077	0.99994354
47 20	5842068.860	30.88078	0.99994097
47 21	5840216.014	30.88079	0.99993848
47 22	5838363.166	30.88081	0.99993608
47 23	5836510.318	30.88083	0.99993376
47 24	5834657.468	30.88085	0.99993152
47 25	5832804.617	30.88088	0.99992937
47 26	5830951.764	30.88091	0.99992730
47 27	5829098.910	30.88094	0.99992531
47 28	5827246.054	30.88097	0.99992341
47 29	5825393.195	30.88100	0.99992160
47 30	5823540.335	30.88104	0.99991986
47 31	5821687.473	30.88108	0.99991821
47 32	5819834.608	30.88112	0.99991664
47 33	5817981.740	30.88117	0.99991516
47 34	5816128.870	30.88122	0.99991376
47 35	5814275.997	30.88127	0.99991245
47 36	5812423.121	30.88132	0.99991122
47 37	5810570.241	30.88138	0.99991007
47 38	5808717.359	30.88144	0.99990901
47 39	5806864.472	30.88150	0.99990803
47 40	5805011.582	30.88156	0.99990714
47 41	5803158.689	30.88163	0.99990632
47 42	5801305.791	30.88170	0.99990560
47 43	5799452.889	30.88177	0.99990496
47 44	5797599.983	30.88184	0.99990440
47 45	5795747.072	30.88192	0.99990392
47 46	5793894.157	30.88200	0.99990353
47 47	5792041.237	30.88208	0.99990323
47 48	5790188.312	30.88217	0.99990301
47 49	5788335.382	30.88225	0.99990287

Lambert conformal conic projection tables
MINNESOTA NORTH

Lat	R (meters)	tab diff.	k
47° 50'	5786482.447	30.88234	0.99990282
47 51	5784629.506	30.88244	0.99990285
47 52	5782776.560	30.88253	0.99990296
47 53	5780923.608	30.88263	0.99990317
47 54	5779070.650	30.88273	0.99990345
47 55	5777217.687	30.88283	0.99990382
47 56	5775364.717	30.88294	0.99990427
47 57	5773511.741	30.88304	0.99990481
47 58	5771658.758	30.88316	0.99990543
47 59	5769805.769	30.88327	0.99990614
48 0	5767952.772	30.88338	0.99990693
48 1	5766099.769	30.88350	0.99990781
48 2	5764246.759	30.88362	0.99990877
48 3	5762393.742	30.88375	0.99990982
48 4	5760540.717	30.88387	0.99991095
48 5	5758687.684	30.88400	0.99991216
48 6	5756834.644	30.88413	0.99991346
48 7	5754981.596	30.88427	0.99991485
48 8	5753128.540	30.88441	0.99991632
48 9	5751275.476	30.88454	0.99991787
48 10	5749422.403	30.88469	0.99991951
48 11	5747569.322	30.88483	0.99992124
48 12	5745716.232	30.88498	0.99992305
48 13	5743863.133	30.88513	0.99992494
48 14	5742010.026	30.88528	0.99992692
48 15	5740156.909	30.88544	0.99992899
48 16	5738303.783	30.88559	0.99993113
48 17	5736450.647	30.88575	0.99993337
48 18	5734597.502	30.88592	0.99993569
48 19	5732744.347	30.88608	0.99993809
48 20	5730891.182	30.88625	0.99994058
48 21	5729038.007	30.88642	0.99994316
48 22	5727184.822	30.88659	0.99994582
48 23	5725331.626	30.88677	0.99994856
48 24	5723478.420	30.88695	0.99995140
48 25	5721625.203	30.88713	0.99995431
48 26	5719771.975	30.88731	0.99995731
48 27	5717918.736	30.88750	0.99996040
48 28	5716065.486	30.88769	0.99996357
48 29	5714212.225	30.88788	0.99996683

Lambert conformal conic projection tables
MINNESOTA NORTH

Lat	R (meters)	tab diff.	k
48° 30'	5712358.952	30.88808	0.99997017
48 31	5710505.667	30.88827	0.99997360
48 32	5708652.371	30.88847	0.99997712
48 33	5706799.063	30.88868	0.99998072
48 34	5704945.742	30.88888	0.99998440
48 35	5703092.409	30.88909	0.99998817
48 36	5701239.064	30.88930	0.99999203
48 37	5699385.706	30.88951	0.99999597
48 38	5697532.335	30.88973	1.00000000
48 39	5695678.952	30.88995	1.00000411
48 40	5693825.555	30.89017	1.00000831
48 41	5691972.145	30.89039	1.00001260
48 42	5690118.722	30.89062	1.00001697
48 43	5688265.285	30.89084	1.00002143
48 44	5686411.834	30.89108	1.00002597
48 45	5684558.369	30.89131	1.00003060
48 46	5682704.891	30.89155	1.00003531
48 47	5680851.398	30.89179	1.00004011
48 48	5678997.891	30.89203	1.00004500
48 49	5677144.369	30.89227	1.00004997
48 50	5675290.833	30.89252	1.00005503
48 51	5673437.281	30.89277	1.00006018
48 52	5671583.715	30.89302	1.00006541
48 53	5669730.134	30.89328	1.00007073
48 54	5667876.537	30.89354	1.00007613
48 55	5666022.925	30.89380	1.00008162
48 56	5664169.297	30.89406	1.00008720
48 57	5662315.653	30.89433	1.00009286
48 58	5660461.994	30.89460	1.00009861
48 59	5658608.318	30.89487	1.00010444
49 0	5656754.626	30.89514	1.00011036
49 1	5654900.917	30.89542	1.00011637
49 2	5653047.192	30.89570	1.00012247
49 3	5651193.451	30.89598	1.00012865
49 4	5649339.692	30.89626	1.00013491
49 5	5647485.916	30.89655	1.00014127
49 6	5645632.123	30.89684	1.00014771
49 7	5643778.313	30.89713	1.00015423
49 8	5641924.485	30.89743	1.00016085
49 9	5640070.639	30.89773	1.00016755

Lambert conformal conic projection tables
MINNESOTA NORTH

Lat	R (meters)	tab diff.	k
49° 10'	5638216.775	30.89803	1.00017434
49 11	5636362.894	30.89833	1.00018121
49 12	5634508.994	30.89864	1.00018817
49 13	5632655.076	30.89894	1.00019522
49 14	5630801.139	30.89926	1.00020235
49 15	5628947.184	30.89957	1.00020957
49 16	5627093.210	30.89989	1.00021688
49 17	5625239.216	30.90021	1.00022428
49 18	5623385.204	30.90053	1.00023176
49 19	5621531.172	30.90085	1.00023933
49 20	5619677.121	30.90118	1.00024698
49 21	5617823.050	30.90151	1.00025473
49 22	5615968.960	30.90184	1.00026256
49 23	5614114.849	30.90218	1.00027047
49 24	5612260.718	30.90252	1.00027848
49 25	5610406.567	30.90286	1.00028657
49 26	5608552.396	30.90320	1.00029475
49 27	5606698.203	30.90355	1.00030302
49 28	5604843.991	30.90390	1.00031137
49 29	5602989.757	30.90425	1.00031981
49 30	5601135.502	30.90460	1.00032834

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MINNESOTA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 43° 0' (latitude of grid origin)
λ_{CM} = 94 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 43 47 (southern standard parallel)
ϕ_n = 45 13 (northern standard parallel)
$E_.$ = 800000.0000 m (easting coordinate of origin)
N_b = 100000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.700927792687 = $\sin(\phi_.)$
K = 11914387.7514 m (mapping radius at the equator)
R_b = 6667126.8494 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	44 30 0.00000 94 30 0.00000	6500459.887 m -0 21 1.67003	-0.0061167108 0.9999812927	760238.567 m 266788.568 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	840000.000 m 270000.000 m	40000.000 m 6497126.849 m	6497249.9796 m 0 21 9.86716	44 31 43.9986 93 29 48.3053

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MINNESOTA SOUTH

Lat	R (meters)	tab diff.	k
43° 0'	6667126.849	30.86709	1.00026139
43 1	6665274.824	30.86695	1.00025393
43 2	6663422.807	30.86681	1.00024655
43 3	6661570.798	30.86668	1.00023925
43 4	6659718.797	30.86655	1.00023203
43 5	6657866.804	30.86642	1.00022490
43 6	6656014.819	30.86629	1.00021785
43 7	6654162.841	30.86617	1.00021088
43 8	6652310.871	30.86605	1.00020399
43 9	6650458.908	30.86593	1.00019719
43 10	6648606.952	30.86582	1.00019047
43 11	6646755.003	30.86570	1.00018383
43 12	6644903.061	30.86559	1.00017728
43 13	6643051.126	30.86548	1.00017080
43 14	6641199.197	30.86538	1.00016441
43 15	6639347.274	30.86527	1.00015810
43 16	6637495.357	30.86517	1.00015188
43 17	6635643.447	30.86508	1.00014574
43 18	6633791.542	30.86498	1.00013968
43 19	6631939.643	30.86489	1.00013370
43 20	6630087.750	30.86480	1.00012781
43 21	6628235.862	30.86471	1.00012199
43 22	6626383.980	30.86462	1.00011626
43 23	6624532.102	30.86454	1.00011062
43 24	6622680.230	30.86446	1.00010506
43 25	6620828.362	30.86438	1.00009957
43 26	6618976.499	30.86431	1.00009418
43 27	6617124.640	30.86424	1.00008886
43 28	6615272.786	30.86417	1.00008363
43 29	6613420.936	30.86410	1.00007848
43 30	6611569.090	30.86403	1.00007341
43 31	6609717.248	30.86397	1.00006843
43 32	6607865.410	30.86391	1.00006353
43 33	6606013.575	30.86386	1.00005871
43 34	6604161.744	30.86380	1.00005398
43 35	6602309.916	30.86375	1.00004933
43 36	6600458.091	30.86370	1.00004476
43 37	6598606.269	30.86365	1.00004028
43 38	6596754.449	30.86361	1.00003587
43 39	6594902.633	30.86357	1.00003156

Lambert conformal conic projection tables
MINNESOTA SOUTH

Lat	R (meters)	tab diff.	k
43° 40'	6593050.819	30.86353	1.00002732
43 41	6591199.007	30.86349	1.00002317
43 42	6589347.198	30.86346	1.00001910
43 43	6587495.390	30.86343	1.00001511
43 44	6585643.585	30.86340	1.00001121
43 45	6583791.781	30.86337	1.00000739
43 46	6581939.978	30.86335	1.00000365
43 47	6580088.178	30.86333	1.00000000
43 48	6578236.378	30.86331	0.99999643
43 49	6576384.579	30.86329	0.99999294
43 50	6574532.782	30.86328	0.99998954
43 51	6572680.985	30.86327	0.99998622
43 52	6570829.189	30.86326	0.99998299
43 53	6568977.393	30.86325	0.99997983
43 54	6567125.598	30.86325	0.99997676
43 55	6565273.803	30.86325	0.99997378
43 56	6563422.008	30.86325	0.99997087
43 57	6561570.213	30.86326	0.99996806
43 58	6559718.418	30.86326	0.99996532
43 59	6557866.622	30.86327	0.99996267
44 0	6556014.825	30.86329	0.99996010
44 1	6554163.028	30.86330	0.99995762
44 2	6552311.230	30.86332	0.99995522
44 3	6550459.431	30.86334	0.99995290
44 4	6548607.630	30.86336	0.99995066
44 5	6546755.829	30.86339	0.99994851
44 6	6544904.025	30.86342	0.99994645
44 7	6543052.220	30.86345	0.99994447
44 8	6541200.414	30.86348	0.99994257
44 9	6539348.605	30.86351	0.99994075
44 10	6537496.794	30.86355	0.99993902
44 11	6535644.981	30.86359	0.99993737
44 12	6533793.165	30.86364	0.99993581
44 13	6531941.347	30.86368	0.99993433
44 14	6530089.526	30.86373	0.99993294
44 15	6528237.702	30.86378	0.99993163
44 16	6526385.875	30.86384	0.99993040
44 17	6524534.045	30.86389	0.99992925
44 18	6522682.211	30.86395	0.99992819
44 19	6520830.374	30.86401	0.99992722

Lambert conformal conic projection tables
MINNESOTA SOUTH

Lat	R (meters)	tab diff.	k
44° 20'	6518978.533	30.86408	0.99992633
44 21	6517126.688	30.86415	0.99992552
44 22	6515274.840	30.86421	0.99992480
44 23	6513422.987	30.86429	0.99992416
44 24	6511571.130	30.86436	0.99992360
44 25	6509719.268	30.86444	0.99992313
44 26	6507867.402	30.86452	0.99992274
44 27	6506015.531	30.86460	0.99992244
44 28	6504163.654	30.86469	0.99992222
44 29	6502311.773	30.86477	0.99992209
44 30	6500459.887	30.86486	0.99992204
44 31	6498607.995	30.86496	0.99992207
44 32	6496756.098	30.86505	0.99992219
44 33	6494904.195	30.86515	0.99992240
44 34	6493052.286	30.86525	0.99992268
44 35	6491200.371	30.86535	0.99992306
44 36	6489348.449	30.86546	0.99992351
44 37	6487496.522	30.86557	0.99992405
44 38	6485644.588	30.86568	0.99992468
44 39	6483792.647	30.86579	0.99992539
44 40	6481940.700	30.86591	0.99992618
44 41	6480088.745	30.86603	0.99992706
44 42	6478236.783	30.86615	0.99992803
44 43	6476384.814	30.86627	0.99992908
44 44	6474532.838	30.86640	0.99993021
44 45	6472680.854	30.86653	0.99993143
44 46	6470828.862	30.86666	0.99993273
44 47	6468976.863	30.86680	0.99993412
44 48	6467124.855	30.86693	0.99993559
44 49	6465272.839	30.86707	0.99993714
44 50	6463420.814	30.86722	0.99993879
44 51	6461568.781	30.86736	0.99994051
44 52	6459716.740	30.86751	0.99994232
44 53	6457864.689	30.86766	0.99994422
44 54	6456012.630	30.86781	0.99994620
44 55	6454160.561	30.86797	0.99994827
44 56	6452308.483	30.86813	0.99995042
44 57	6450456.396	30.86829	0.99995265
44 58	6448604.298	30.86845	0.99995497
44 59	6446752.191	30.86862	0.99995738

Lambert conformal conic projection tables
MINNESOTA SOUTH

Lat	R (meters)	tab diff.	k
45° 0'	6444900.075	30.86878	0.99995987
45 1	6443047.947	30.86896	0.99996244
45 2	6441195.810	30.86913	0.99996511
45 3	6439343.662	30.86931	0.99996785
45 4	6437491.504	30.86949	0.99997068
45 5	6435639.335	30.86967	0.99997360
45 6	6433787.155	30.86985	0.99997660
45 7	6431934.964	30.87004	0.99997969
45 8	6430082.762	30.87023	0.99998286
45 9	6428230.548	30.87042	0.99998612
45 10	6426378.323	30.87062	0.99998946
45 11	6424526.086	30.87081	0.99999289
45 12	6422673.837	30.87101	0.99999640
45 13	6420821.576	30.87122	1.00000000
45 14	6418969.303	30.87142	1.00000368
45 15	6417117.018	30.87163	1.00000745
45 16	6415264.720	30.87184	1.00001131
45 17	6413412.410	30.87205	1.00001525
45 18	6411560.086	30.87227	1.00001928
45 19	6409707.750	30.87249	1.00002339
45 20	6407855.401	30.87271	1.00002758
45 21	6406003.038	30.87293	1.00003187
45 22	6404150.662	30.87316	1.00003624
45 23	6402298.272	30.87339	1.00004069
45 24	6400445.869	30.87362	1.00004523
45 25	6398593.452	30.87386	1.00004986
45 26	6396741.020	30.87409	1.00005457
45 27	6394888.575	30.87433	1.00005936
45 28	6393036.115	30.87458	1.00006425
45 29	6391183.640	30.87482	1.00006922
45 30	6389331.151	30.87507	1.00007427
45 31	6387478.646	30.87532	1.00007941
45 32	6385626.127	30.87557	1.00008464
45 33	6383773.593	30.87583	1.00008995
45 34	6381921.043	30.87609	1.00009535
45 35	6380068.478	30.87635	1.00010083
45 36	6378215.897	30.87661	1.00010640
45 37	6376363.300	30.87688	1.00011206
45 38	6374510.687	30.87715	1.00011780
45 39	6372658.058	30.87742	1.00012363

Lambert conformal conic projection tables
MINNESOTA SOUTH

Lat	R (meters)	tab diff.	k
45° 40'	6370805.413	30.87769	1.00012955
45 41	6368952.752	30.87797	1.00013555
45 42	6367100.073	30.87825	1.00014163
45 43	6365247.378	30.87853	1.00014781
45 44	6363394.666	30.87882	1.00015407
45 45	6361541.937	30.87911	1.00016041
45 46	6359689.191	30.87940	1.00016685
45 47	6357836.427	30.87969	1.00017336
45 48	6355983.646	30.87999	1.00017997
45 49	6354130.846	30.88028	1.00018666
45 50	6352278.029	30.88059	1.00019344
45 51	6350425.194	30.88089	1.00020030
45 52	6348572.341	30.88120	1.00020725
45 53	6346719.469	30.88150	1.00021429
45 54	6344866.579	30.88182	1.00022141
45 55	6343013.670	30.88213	1.00022862
45 56	6341160.742	30.88245	1.00023592
45 57	6339307.795	30.88277	1.00024331
45 58	6337454.829	30.88309	1.00025078
45 59	6335601.844	30.88341	1.00025833
46 0	6333748.839	30.88374	1.00026598

TRANSVERSE MERCATOR PROJECTION

TABLES FOR MISSISSIPPI COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MISSISSIPPI EAST
ZONE CODE: 2301

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 29°30' (latitude of grid origin)
λ_b = 88°50' (longitude of origin and Central Meridian, CM)
E_0 = 300000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999950 (scale along Central Meridian)
latitude range from ϕ_{min} = 29°30' to ϕ_{max} = 35°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  30°15'23".54600
  LONGITUDE:  89°12'43".75500

     p = 10^-4 Δλ  =  -0.13637550
TABULAR  (   I) =   83133.6031
   23.54600 sec =     725.0289
   SECOND DIFF  =      -0.0006
         (   I) =   83858.6314
TABULAR  (  II) =    3264.5843
   23.54600 sec =       0.4226
         (  II) =    3265.0070
TABULAR  ( III) =       2.2451
 N = (I) + (II)p^2 + (III)p^4 =  83919.356 m


TABULAR  (  IV) =  267329.7440
   23.54600 sec =     -17.7123
   SECOND DIFF  =       0.0027
         (  IV) =  267312.0344
TABULAR  (   V) =      51.9615
   23.54600 sec =      -0.0244
         (   V) =      51.9372
TABULAR  (  VI) =      -0.0071
 E' = (IV)p +(V)p^3 + (VI)p^5 = -36454.944 m
 E = E0 + E' =                 263545.056 m


TABULAR  ( XII) =    5037.7398
   23.54600 sec =       0.9860
         ( XII) =    5038.7258
TABULAR  (XIII) =       2.9899
C = (XII)p + (XIII)p^3 =     -687".17


  q  = 10^-6 E'   =  -0.03645494
TABULAR  ( XVI) =     0.012331
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99996639
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.03645494$
$\phi' = 30°15'25''.51808$

TABULAR	(VII) =	1483.5279
25.51808 sec	=	0.4197
	(VII) =	1483.9476
TABULAR	(VIII) =	18.2345
25.51808 sec	=	0.0069
	(VIII) =	18.2414

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 30°15'23''.54600$

TABULAR	(IX) =	37406.9860
25.51808 sec	=	2.6865
SECOND DIFF	=	-0.0006
	(IX) =	37409.6719
TABULAR	(X) =	257.8569
25.51808 sec	=	0.0774
	(X) =	257.9344
TABULAR	(XI) =	3.2563
25.51808 sec	=	0.0018
	(XI) =	3.2581

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 89°12'43''.75500$

TABULAR	(XIV) =	18844.6661
25.51808 sec	=	5.3514
SECOND DIFF	=	-0.0005
	(XIV) =	18850.0170
TABULAR	(XV) =	205.8131
25.51808 sec	=	0.0883
	(XV) =	205.9014

$C = (XIV)q - (XV)q^3 = -687''.17$

TABULAR (XVI) = 0.012331

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99996639$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MISSISSIPPI WEST
ZONE CODE: 2302

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 29°30' (latitude of grid origin)
λ_b = 90°20' (longitude of origin and Central Meridian, CM)
E_0 = 700000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999950 (scale along Central Meridian)
latitude range from ϕ_{min} = 29°30' to ϕ_{max} = 35°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  30°15'23".54600
  LONGITUDE:  91°12'43".75500

     p = 10^-4 Δλ  =  -0.31637550
TABULAR  (   I) =   83133.6031
   23.54600 sec =     725.0289
   SECOND DIFF  =      -0.0006
         (   I) =   83858.6314
TABULAR  (  II) =    3264.5843
   23.54600 sec =       0.4226
         (  II) =    3265.0070
TABULAR  ( III) =       2.2451
 N = (I) + (II)p^2 + (III)p^4 =  84185.460 m


TABULAR  (  IV) =  267329.7440
   23.54600 sec =     -17.7123
   SECOND DIFF  =       0.0027
         (  IV) =  267312.0344
TABULAR  (   V) =      51.9615
   23.54600 sec =      -0.0244
         (   V) =      51.9372
TABULAR  (  VI) =      -0.0071
 E' = (IV)p +(V)p^3 + (VI)p^5 = -84572.623 m
 E = E0 + E' =                 615427.377 m


TABULAR  ( XII) =    5037.7398
   23.54600 sec =       0.9860
         ( XII) =    5038.7258
TABULAR  (XIII) =       2.9899
   23.54600 sec =       0.0002
         (XIII) =       2.9900
C = (XII)p + (XIII)p^3 =    -1594".22


  q  = 10^-6 E'   =  -0.08457262
TABULAR  ( XVI) =     0.012333
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  1.00003821
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.08457262$
$\phi' = 30°15'34''.16006$

TABULAR	(VII) =	1483.5279
34.16006 sec	=	0.5618
	(VII) =	1484.0897
TABULAR	(VIII) =	18.2345
34.16006 sec	=	0.0092
	(VIII) =	18.2438

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 30°15'23''.54600$

TABULAR	(IX) =	37406.9860
34.16006 sec	=	3.5963
SECOND DIFF	=	-0.0006
	(IX) =	37410.5817
TABULAR	(X) =	257.8569
34.16006 sec	=	0.1037
	(X) =	257.9606
TABULAR	(XI) =	3.2563
34.16006 sec	=	0.0025
	(XI) =	3.2588

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 91°12'43''.75497$

TABULAR	(XIV) =	18844.6661
34.16006 sec	=	7.1637
SECOND DIFF	=	-0.0005
	(XIV) =	18851.8293
TABULAR	(XV) =	205.8131
34.16006 sec	=	0.1181
	(XV) =	205.9313

$C = (XIV)q - (XV)q^3 = -1594''.22$

TABULAR (XVI) = 0.012333

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00003821$

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
29°30'	-0.0000	30.788516	3214.9945	0.018767	2.254
	269337.3257	-0.735215	54.7499	-0.001031	-0.005
29°31'	1847.3109	30.788593	3216.1205	0.018749	2.254
	269293.2129	-0.735594	54.6880	-0.001031	-0.005
29°32'	3694.6265	30.788670	3217.2454	0.018730	2.254
	269249.0772	-0.735974	54.6262	-0.001031	-0.005
29°33'	5541.9467	30.788747	3218.3693	0.018712	2.254
	269204.9188	-0.736353	54.5643	-0.001031	-0.005
29°34'	7389.2716	30.788825	3219.4920	0.018694	2.254
	269160.7376	-0.736733	54.5024	-0.001031	-0.005
29°35'	9236.6010	30.788902	3220.6137	0.018676	2.254
	269116.5336	-0.737112	54.4406	-0.001031	-0.005
29°36'	11083.9352	30.788979	3221.7342	0.018658	2.253
	269072.3069	-0.737492	54.3787	-0.001031	-0.005
29°37'	12931.2739	30.789057	3222.8537	0.018640	2.253
	269028.0574	-0.737871	54.3168	-0.001032	-0.005
29°38'	14778.6173	30.789134	3223.9721	0.018622	2.253
	268983.7851	-0.738250	54.2549	-0.001032	-0.005
29°39'	16625.9654	30.789212	3225.0894	0.018604	2.253
	268939.4901	-0.738630	54.1930	-0.001032	-0.005
29°40'	18473.3181	30.789289	3226.2056	0.018585	2.253
	268895.1723	-0.739009	54.1311	-0.001032	-0.005
29°41'	20320.6754	30.789367	3227.3207	0.018567	2.252
	268850.8318	-0.739388	54.0692	-0.001032	-0.005
29°42'	22168.0374	30.789444	3228.4348	0.018549	2.252
	268806.4685	-0.739767	54.0073	-0.001032	-0.005
29°43'	24015.4041	30.789522	3229.5477	0.018531	2.252
	268762.0825	-0.740146	53.9454	-0.001032	-0.006
29°44'	25862.7754	30.789599	3230.6596	0.018513	2.252
	268717.6737	-0.740525	53.8835	-0.001032	-0.006
29°45'	27710.1514	30.789677	3231.7703	0.018495	2.252
	268673.2423	-0.740904	53.8215	-0.001032	-0.006
29°46'	29557.5320	30.789755	3232.8800	0.018476	2.252
	268628.7880	-0.741282	53.7596	-0.001032	-0.006
29°47'	31404.9173	30.789832	3233.9886	0.018458	2.251
	268584.3111	-0.741661	53.6977	-0.001032	-0.006
29°48'	33252.3072	30.789910	3235.0961	0.018440	2.251
	268539.8114	-0.742040	53.6357	-0.001032	-0.006
29°49'	35099.7018	30.789988	3236.2025	0.018422	2.251
	268495.2890	-0.742418	53.5738	-0.001033	-0.006
29°50'	36947.1011	30.790066	3237.3078	0.018404	2.251
	268450.7439	-0.742797	53.5118	-0.001033	-0.006
29°51'	38794.5050	30.790143	3238.4120	0.018385	2.251
	268406.1761	-0.743175	53.4499	-0.001033	-0.006

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
29°52'	40641.9136	30.790221	3239.5151	0.018367	2.250
	268361.5856	-0.743554	53.3879	-0.001033	-0.006
29°53'	42489.3269	30.790299	3240.6172	0.018349	2.250
	268316.9724	-0.743932	53.3259	-0.001033	-0.006
29°54'	44336.7448	30.790377	3241.7181	0.018331	2.250
	268272.3364	-0.744311	53.2640	-0.001033	-0.006
29°55'	46184.1674	30.790455	3242.8179	0.018312	2.250
	268227.6778	-0.744689	53.2020	-0.001033	-0.006
29°56'	48031.5947	30.790533	3243.9167	0.018294	2.249
	268182.9965	-0.745067	53.1400	-0.001033	-0.006
29°57'	49879.0267	30.790611	3245.0143	0.018276	2.249
	268138.2924	-0.745445	53.0780	-0.001033	-0.006
29°58'	51726.4633	30.790689	3246.1109	0.018258	2.249
	268093.5657	-0.745823	53.0160	-0.001033	-0.006
29°59'	53573.9046	30.790767	3247.2063	0.018239	2.249
	268048.8163	-0.746201	52.9540	-0.001033	-0.006
30° 0'	55421.3506	30.790845	3248.3007	0.018221	2.249
	268004.0443	-0.746579	52.8920	-0.001033	-0.006
30° 1'	57268.8013	30.790923	3249.3939	0.018203	2.248
	267959.2495	-0.746957	52.8300	-0.001033	-0.006
30° 2'	59116.2566	30.791001	3250.4861	0.018184	2.248
	267914.4321	-0.747335	52.7680	-0.001034	-0.006
30° 3'	60963.7167	30.791079	3251.5772	0.018166	2.248
	267869.5920	-0.747713	52.7060	-0.001034	-0.007
30° 4'	62811.1814	30.791157	3252.6671	0.018148	2.248
	267824.7292	-0.748090	52.6440	-0.001034	-0.007
30° 5'	64658.6508	30.791235	3253.7560	0.018130	2.247
	267779.8438	-0.748468	52.5820	-0.001034	-0.007
30° 6'	66506.1249	30.791313	3254.8438	0.018111	2.247
	267734.9358	-0.748846	52.5199	-0.001034	-0.007
30° 7'	68353.6037	30.791391	3255.9305	0.018093	2.247
	267690.0050	-0.749223	52.4579	-0.001034	-0.007
30° 8'	70201.0872	30.791470	3257.0160	0.018075	2.247
	267645.0516	-0.749601	52.3959	-0.001034	-0.007
30° 9'	72048.5754	30.791548	3258.1005	0.018056	2.247
	267600.0756	-0.749978	52.3338	-0.001034	-0.007
30°10'	73896.0682	30.791626	3259.1839	0.018038	2.246
	267555.0769	-0.750355	52.2718	-0.001034	-0.007
30°11'	75743.5658	30.791705	3260.2662	0.018020	2.246
	267510.0556	-0.750733	52.2097	-0.001034	-0.007
30°12'	77591.0681	30.791783	3261.3474	0.018001	2.246
	267465.0117	-0.751110	52.1477	-0.001034	-0.007
30°13'	79438.5751	30.791861	3262.4274	0.017983	2.246
	267419.9451	-0.751487	52.0856	-0.001034	-0.007

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30°14'	81286.0867	30.791940	3263.5064	0.017965	2.245
	267374.8558	-0.751864	52.0236	-0.001034	-0.007
30°15'	83133.6031	30.792018	3264.5843	0.017946	2.245
	267329.7440	-0.752241	51.9615	-0.001034	-0.007
30°16'	84981.1242	30.792096	3265.6610	0.017928	2.245
	267284.6095	-0.752618	51.8994	-0.001035	-0.007
30°17'	86828.6500	30.792175	3266.7367	0.017909	2.245
	267239.4525	-0.752995	51.8374	-0.001035	-0.007
30°18'	88676.1805	30.792253	3267.8113	0.017891	2.244
	267194.2728	-0.753372	51.7753	-0.001035	-0.007
30°19'	90523.7157	30.792332	3268.8847	0.017873	2.244
	267149.0705	-0.753749	51.7132	-0.001035	-0.007
30°20'	92371.2556	30.792410	3269.9571	0.017854	2.244
	267103.8455	-0.754125	51.6511	-0.001035	-0.007
30°21'	94218.8002	30.792489	3271.0283	0.017836	2.244
	267058.5980	-0.754502	51.5891	-0.001035	-0.007
30°22'	96066.3496	30.792568	3272.0985	0.017817	2.243
	267013.3279	-0.754879	51.5270	-0.001035	-0.007
30°23'	97913.9036	30.792646	3273.1675	0.017799	2.243
	266968.0352	-0.755255	51.4649	-0.001035	-0.007
30°24'	99761.4624	30.792725	3274.2355	0.017781	2.243
	266922.7199	-0.755632	51.4028	-0.001035	-0.008
30°25'	101609.0259	30.792804	3275.3023	0.017762	2.243
	266877.3820	-0.756008	51.3407	-0.001035	-0.008
30°26'	103456.5941	30.792882	3276.3680	0.017744	2.242
	266832.0215	-0.756384	51.2786	-0.001035	-0.008
30°27'	105304.1670	30.792961	3277.4326	0.017725	2.242
	266786.6384	-0.756761	51.2165	-0.001035	-0.008
30°28'	107151.7447	30.793040	3278.4962	0.017707	2.242
	266741.2328	-0.757137	51.1544	-0.001035	-0.008
30°29'	108999.3271	30.793119	3279.5586	0.017688	2.242
	266695.8046	-0.757513	51.0923	-0.001035	-0.008
30°30'	110846.9142	30.793197	3280.6199	0.017670	2.241
	266650.3538	-0.757889	51.0301	-0.001035	-0.008
30°31'	112694.5060	30.793276	3281.6801	0.017651	2.241
	266604.8804	-0.758265	50.9680	-0.001035	-0.008
30°32'	114542.1026	30.793355	3282.7391	0.017633	2.241
	266559.3845	-0.758641	50.9059	-0.001035	-0.008
30°33'	116389.7039	30.793434	3283.7971	0.017614	2.240
	266513.8660	-0.759017	50.8438	-0.001035	-0.008
30°34'	118237.3100	30.793513	3284.8540	0.017596	2.240
	266468.3250	-0.759393	50.7816	-0.001036	-0.008
30°35'	120084.9207	30.793592	3285.9097	0.017577	2.240
	266422.7614	-0.759769	50.7195	-0.001036	-0.008

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30°36'	121932.5362	30.793671	3286.9644	0.017559	2.240
	266377.1753	-0.760145	50.6574	-0.001036	-0.008
30°37'	123780.1565	30.793750	3288.0179	0.017540	2.239
	266331.5666	-0.760520	50.5952	-0.001036	-0.008
30°38'	125627.7815	30.793829	3289.0704	0.017522	2.239
	266285.9354	-0.760896	50.5331	-0.001036	-0.008
30°39'	127475.4112	30.793908	3290.1217	0.017503	2.239
	266240.2816	-0.761271	50.4709	-0.001036	-0.008
30°40'	129323.0456	30.793987	3291.1719	0.017485	2.238
	266194.6053	-0.761647	50.4088	-0.001036	-0.008
30°41'	131170.6848	30.794066	3292.2210	0.017466	2.238
	266148.9065	-0.762022	50.3467	-0.001036	-0.008
30°42'	133018.3288	30.794145	3293.2690	0.017448	2.238
	266103.1852	-0.762398	50.2845	-0.001036	-0.008
30°43'	134865.9775	30.794224	3294.3158	0.017429	2.238
	266057.4413	-0.762773	50.2223	-0.001036	-0.008
30°44'	136713.6310	30.794303	3295.3616	0.017411	2.237
	266011.6749	-0.763148	50.1602	-0.001036	-0.008
30°45'	138561.2891	30.794382	3296.4062	0.017392	2.237
	265965.8860	-0.763524	50.0980	-0.001036	-0.009
30°46'	140408.9521	30.794462	3297.4498	0.017374	2.237
	265920.0746	-0.763899	50.0359	-0.001036	-0.009
30°47'	142256.6198	30.794541	3298.4922	0.017355	2.236
	265874.2407	-0.764274	49.9737	-0.001036	-0.009
30°48'	144104.2923	30.794620	3299.5335	0.017337	2.236
	265828.3843	-0.764649	49.9115	-0.001036	-0.009
30°49'	145951.9695	30.794699	3300.5737	0.017318	2.236
	265782.5053	-0.765024	49.8494	-0.001036	-0.009
30°50'	147799.6514	30.794779	3301.6128	0.017299	2.236
	265736.6039	-0.765399	49.7872	-0.001036	-0.009
30°51'	149647.3382	30.794858	3302.6507	0.017281	2.235
	265690.6800	-0.765773	49.7250	-0.001036	-0.009
30°52'	151495.0297	30.794938	3303.6876	0.017262	2.235
	265644.7336	-0.766148	49.6628	-0.001036	-0.009
30°53'	153342.7259	30.795017	3304.7233	0.017244	2.235
	265598.7647	-0.766523	49.6007	-0.001036	-0.009
30°54'	155190.4269	30.795096	3305.7579	0.017225	2.234
	265552.7733	-0.766897	49.5385	-0.001036	-0.009
30°55'	157038.1327	30.795176	3306.7914	0.017206	2.234
	265506.7595	-0.767272	49.4763	-0.001036	-0.009
30°56'	158885.8432	30.795255	3307.8238	0.017188	2.234
	265460.7232	-0.767647	49.4141	-0.001036	-0.009
30°57'	160733.5586	30.795335	3308.8551	0.017169	2.233
	265414.6644	-0.768021	49.3519	-0.001037	-0.009

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
30°58'	162581.2786	30.795414	3309.8852	0.017151	2.233
	265368.5831	-0.768395	49.2897	-0.001037	-0.009
30°59'	164429.0035	30.795494	3310.9143	0.017132	2.233
	265322.4794	-0.768770	49.2275	-0.001037	-0.009
31° 0'	166276.7331	30.795573	3311.9422	0.017113	2.232
	265276.3532	-0.769144	49.1653	-0.001037	-0.009
31° 1'	168124.4675	30.795653	3312.9690	0.017095	2.232
	265230.2046	-0.769518	49.1031	-0.001037	-0.009
31° 2'	169972.2067	30.795733	3313.9947	0.017076	2.232
	265184.0335	-0.769892	49.0409	-0.001037	-0.009
31° 3'	171819.9507	30.795812	3315.0192	0.017057	2.231
	265137.8400	-0.770266	48.9787	-0.001037	-0.009
31° 4'	173667.6994	30.795892	3316.0426	0.017039	2.231
	265091.6240	-0.770640	48.9165	-0.001037	-0.009
31° 5'	175515.4529	30.795972	3317.0650	0.017020	2.231
	265045.3856	-0.771014	48.8543	-0.001037	-0.009
31° 6'	177363.2112	30.796051	3318.0862	0.017001	2.230
	264999.1247	-0.771388	48.7921	-0.001037	-0.01
31° 7'	179210.9743	30.796131	3319.1062	0.016983	2.230
	264952.8414	-0.771762	48.7299	-0.001037	-0.01
31° 8'	181058.7421	30.796211	3320.1252	0.016964	2.230
	264906.5357	-0.772136	48.6677	-0.001037	-0.01
31° 9'	182906.5148	30.796291	3321.1430	0.016945	2.229
	264860.2076	-0.772509	48.6055	-0.001037	-0.01
31°10'	184754.2922	30.796370	3322.1598	0.016927	2.229
	264813.8570	-0.772883	48.5433	-0.001037	-0.01
31°11'	186602.0744	30.796450	3323.1753	0.016908	2.229
	264767.4840	-0.773257	48.4811	-0.001037	-0.01
31°12'	188449.8614	30.796530	3324.1898	0.016889	2.228
	264721.0886	-0.773630	48.4188	-0.001037	-0.01
31°13'	190297.6532	30.796610	3325.2032	0.016870	2.228
	264674.6708	-0.774003	48.3566	-0.001037	-0.01
31°14'	192145.4498	30.796690	3326.2154	0.016852	2.228
	264628.2306	-0.774377	48.2944	-0.001037	-0.01
31°15'	193993.2512	30.796770	3327.2265	0.016833	2.227
	264581.7680	-0.774750	48.2322	-0.001037	-0.01
31°16'	195841.0574	30.796850	3328.2365	0.016814	2.227
	264535.2830	-0.775123	48.1700	-0.001037	-0.01
31°17'	197688.8684	30.796930	3329.2453	0.016796	2.227
	264488.7756	-0.775497	48.1077	-0.001037	-0.010
31°18'	199536.6842	30.797010	3330.2531	0.016777	2.226
	264442.2458	-0.775870	48.0455	-0.001037	-0.010
31°19'	201384.5048	30.797090	3331.2597	0.016758	2.226
	264395.6936	-0.776243	47.9833	-0.001037	-0.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°20'	203232.3302	30.797170	3332.2652	0.016739	2.226
	264349.1190	-0.776616	47.9211	-0.001037	-0.010
31°21'	205080.1603	30.797250	3333.2695	0.016721	2.225
	264302.5221	-0.776989	47.8588	-0.001037	-0.010
31°22'	206927.9953	30.797330	3334.2727	0.016702	2.225
	264255.9028	-0.777362	47.7966	-0.001037	-0.010
31°23'	208775.8351	30.797410	3335.2748	0.016683	2.225
	264209.2611	-0.777734	47.7344	-0.001037	-0.010
31°24'	210623.6797	30.797490	3336.2758	0.016664	2.224
	264162.5970	-0.778107	47.6721	-0.001037	-0.010
31°25'	212471.5292	30.797570	3337.2757	0.016645	2.224
	264115.9106	-0.778480	47.6099	-0.001037	-0.010
31°26'	214319.3834	30.797651	3338.2744	0.016627	2.223
	264069.2018	-0.778852	47.5477	-0.001037	-0.010
31°27'	216167.2424	30.797731	3339.2720	0.016608	2.223
	264022.4706	-0.779225	47.4854	-0.001037	-0.010
31°28'	218015.1063	30.797811	3340.2685	0.016589	2.223
	263975.7171	-0.779597	47.4232	-0.001037	-0.011
31°29'	219862.9750	30.797891	3341.2638	0.016570	2.222
	263928.9413	-0.779970	47.3610	-0.001037	-0.011
31°30'	221710.8485	30.797972	3342.2580	0.016551	2.222
	263882.1431	-0.780342	47.2987	-0.001037	-0.011
31°31'	223558.7268	30.798052	3343.2511	0.016533	2.222
	263835.3226	-0.780715	47.2365	-0.001037	-0.011
31°32'	225406.6099	30.798132	3344.2431	0.016514	2.221
	263788.4797	-0.781087	47.1742	-0.001037	-0.011
31°33'	227254.4978	30.798213	3345.2339	0.016495	2.221
	263741.6145	-0.781459	47.1120	-0.001037	-0.011
31°34'	229102.3906	30.798293	3346.2236	0.016476	2.220
	263694.7269	-0.781831	47.0498	-0.001037	-0.011
31°35'	230950.2882	30.798374	3347.2122	0.016457	2.220
	263647.8171	-0.782203	46.9875	-0.001037	-0.011
31°36'	232798.1906	30.798454	3348.1996	0.016438	2.220
	263600.8849	-0.782575	46.9253	-0.001037	-0.011
31°37'	234646.0979	30.798535	3349.1859	0.016420	2.219
	263553.9304	-0.782947	46.8630	-0.001037	-0.011
31°38'	236494.0099	30.798615	3350.1711	0.016401	2.219
	263506.9535	-0.783319	46.8008	-0.001037	-0.011
31°39'	238341.9268	30.798696	3351.1551	0.016382	2.219
	263459.9544	-0.783691	46.7386	-0.001037	-0.011
31°40'	240189.8486	30.798776	3352.1380	0.016363	2.218
	263412.9330	-0.784062	46.6763	-0.001037	-0.011
31°41'	242037.7751	30.798857	3353.1198	0.016344	2.218
	263365.8892	-0.784434	46.6141	-0.001037	-0.011

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°42'	243885.7065	30.798937	3354.1005	0.016325	2.217
	263318.8232	-0.784806	46.5518	-0.001037	-0.011
31°43'	245733.6428	30.799018	3355.0800	0.016306	2.217
	263271.7348	-0.785177	46.4896	-0.001037	-0.011
31°44'	247581.5838	30.799099	3356.0584	0.016287	2.217
	263224.6242	-0.785549	46.4273	-0.001037	-0.011
31°45'	249429.5298	30.799179	3357.0356	0.016269	2.216
	263177.4913	-0.785920	46.3651	-0.001037	-0.011
31°46'	251277.4805	30.799260	3358.0117	0.016250	2.216
	263130.3361	-0.786291	46.3028	-0.001037	-0.011
31°47'	253125.4361	30.799341	3358.9867	0.016231	2.215
	263083.1586	-0.786663	46.2406	-0.001037	-0.011
31°48'	254973.3965	30.799421	3359.9606	0.016212	2.215
	263035.9588	-0.787034	46.1784	-0.001037	-0.011
31°49'	256821.3618	30.799502	3360.9333	0.016193	2.215
	262988.7368	-0.787405	46.1161	-0.001037	-0.011
31°50'	258669.3319	30.799583	3361.9049	0.016174	2.214
	262941.4925	-0.787776	46.0539	-0.001037	-0.012
31°51'	260517.3069	30.799664	3362.8753	0.016155	2.214
	262894.2259	-0.788147	45.9916	-0.001037	-0.012
31°52'	262365.2867	30.799744	3363.8446	0.016136	2.213
	262846.9371	-0.788518	45.9294	-0.001037	-0.012
31°53'	264213.2714	30.799825	3364.8128	0.016117	2.213
	262799.6260	-0.788889	45.8671	-0.001037	-0.012
31°54'	266061.2609	30.799906	3365.7798	0.016098	2.213
	262752.2926	-0.789260	45.8049	-0.001037	-0.012
31°55'	267909.2553	30.799987	3366.7457	0.016079	2.212
	262704.9371	-0.789631	45.7426	-0.001037	-0.012
31°56'	269757.2545	30.800068	3367.7105	0.016060	2.212
	262657.5592	-0.790001	45.6804	-0.001037	-0.012
31°57'	271605.2586	30.800149	3368.6741	0.016041	2.211
	262610.1591	-0.790372	45.6181	-0.001037	-0.012
31°58'	273453.2675	30.800230	3369.6366	0.016022	2.211
	262562.7368	-0.790743	45.5559	-0.001037	-0.012
31°59'	275301.2813	30.800311	3370.5979	0.016003	2.210
	262515.2923	-0.791113	45.4937	-0.001037	-0.012
32° 0'	277149.3000	30.800392	3371.5581	0.015985	2.210
	262467.8255	-0.791484	45.4314	-0.001037	-0.012
32° 1'	278997.3235	30.800473	3372.5172	0.015966	2.210
	262420.3365	-0.791854	45.3692	-0.001037	-0.012
32° 2'	280845.3519	30.800554	3373.4751	0.015947	2.209
	262372.8252	-0.792224	45.3069	-0.001037	-0.012
32° 3'	282693.3851	30.800635	3374.4319	0.015928	2.209
	262325.2918	-0.792594	45.2447	-0.001037	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32° 4'	284541.4232	30.800716	3375.3876	0.015909	2.208
	262277.7361	-0.792965	45.1825	-0.001037	-0.012
32° 5'	286389.4662	30.800797	3376.3421	0.015890	2.208
	262230.1582	-0.793335	45.1202	-0.001037	-0.012
32° 6'	288237.5140	30.800878	3377.2955	0.015871	2.207
	262182.5581	-0.793705	45.0580	-0.001037	-0.012
32° 7'	290085.5667	30.800960	3378.2477	0.015852	2.207
	262134.9358	-0.794075	44.9957	-0.001037	-0.012
32° 8'	291933.6243	30.801041	3379.1988	0.015833	2.207
	262087.2913	-0.794445	44.9335	-0.001037	-0.012
32° 9'	293781.6868	30.801122	3380.1487	0.015813	2.206
	262039.6247	-0.794815	44.8713	-0.001037	-0.012
32°10'	295629.7541	30.801203	3381.0975	0.015794	2.206
	261991.9358	-0.795184	44.8090	-0.001037	-0.012
32°11'	297477.8263	30.801285	3382.0452	0.015775	2.205
	261944.2247	-0.795554	44.7468	-0.001037	-0.012
32°12'	299325.9034	30.801366	3382.9917	0.015756	2.205
	261896.4915	-0.795924	44.6846	-0.001037	-0.013
32°13'	301173.9853	30.801447	3383.9371	0.015737	2.204
	261848.7360	-0.796293	44.6223	-0.001037	-0.013
32°14'	303022.0722	30.801529	3384.8814	0.015718	2.204
	261800.9584	-0.796663	44.5601	-0.001037	-0.013
32°15'	304870.1639	30.801610	3385.8245	0.015699	2.204
	261753.1586	-0.797032	44.4979	-0.001037	-0.013
32°16'	306718.2605	30.801691	3386.7664	0.015680	2.203
	261705.3367	-0.797402	44.4356	-0.001037	-0.013
32°17'	308566.3619	30.801773	3387.7072	0.015661	2.203
	261657.4926	-0.797771	44.3734	-0.001037	-0.013
32°18'	310414.4683	30.801854	3388.6469	0.015642	2.202
	261609.6263	-0.798141	44.3112	-0.001037	-0.013
32°19'	312262.5795	30.801936	3389.5854	0.015623	2.202
	261561.7379	-0.798510	44.2489	-0.001037	-0.013
32°20'	314110.6957	30.802017	3390.5228	0.015604	2.201
	261513.8273	-0.798879	44.1867	-0.001037	-0.013
32°21'	315958.8167	30.802099	3391.4590	0.015585	2.201
	261465.8946	-0.799248	44.1245	-0.001037	-0.013
32°22'	317806.9426	30.802180	3392.3941	0.015566	2.200
	261417.9397	-0.799617	44.0623	-0.001037	-0.013
32°23'	319655.0734	30.802262	3393.3280	0.015547	2.200
	261369.9627	-0.799986	44.0000	-0.001037	-0.013
32°24'	321503.2091	30.802343	3394.2608	0.015527	2.199
	261321.9635	-0.800355	43.9378	-0.001037	-0.013
32°25'	323351.3497	30.802425	3395.1925	0.015508	2.199
	261273.9422	-0.800724	43.8756	-0.001037	-0.013

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°26'	325199.4952	30.802506	3396.1230	0.015489	2.199
	261225.8988	-0.801092	43.8134	-0.001037	-0.013
32°27'	327047.6456	30.802588	3397.0523	0.015470	2.198
	261177.8333	-0.801461	43.7512	-0.001037	-0.013
32°28'	328895.8009	30.802670	3397.9805	0.015451	2.198
	261129.7456	-0.801830	43.6890	-0.001037	-0.013
32°29'	330743.9611	30.802751	3398.9076	0.015432	2.197
	261081.6358	-0.802198	43.6267	-0.001037	-0.013
32°30'	332592.1261	30.802833	3399.8335	0.015413	2.197
	261033.5039	-0.802567	43.5645	-0.001037	-0.013
32°31'	334440.2961	30.802915	3400.7583	0.015394	2.196
	260985.3499	-0.802935	43.5023	-0.001037	-0.013
32°32'	336288.4710	30.802997	3401.6819	0.015374	2.196
	260937.1738	-0.803304	43.4401	-0.001037	-0.013
32°33'	338136.6508	30.803078	3402.6043	0.015355	2.195
	260888.9756	-0.803672	43.3779	-0.001037	-0.013
32°34'	339984.8355	30.803160	3403.5256	0.015336	2.195
	260840.7553	-0.804040	43.3157	-0.001037	-0.013
32°35'	341833.0251	30.803242	3404.4458	0.015317	2.194
	260792.5129	-0.804408	43.2535	-0.001037	-0.014
32°36'	343681.2196	30.803324	3405.3648	0.015298	2.194
	260744.2484	-0.804776	43.1913	-0.001037	-0.014
32°37'	345529.4190	30.803406	3406.2827	0.015279	2.193
	260695.9618	-0.805144	43.1291	-0.001037	-0.014
32°38'	347377.6234	30.803487	3407.1994	0.015259	2.193
	260647.6531	-0.805512	43.0669	-0.001037	-0.014
32°39'	349225.8326	30.803569	3408.1150	0.015240	2.192
	260599.3224	-0.805880	43.0047	-0.001037	-0.014
32°40'	351074.0468	30.803651	3409.0294	0.015221	2.192
	260550.9695	-0.806248	42.9425	-0.001037	-0.014
32°41'	352922.2659	30.803733	3409.9426	0.015202	2.191
	260502.5947	-0.806616	42.8803	-0.001036	-0.014
32°42'	354770.4899	30.803815	3410.8548	0.015183	2.191
	260454.1977	-0.806984	42.8181	-0.001036	-0.014
32°43'	356618.7188	30.803897	3411.7657	0.015163	2.190
	260405.7787	-0.807351	42.7560	-0.001036	-0.014
32°44'	358466.9526	30.803979	3412.6755	0.015144	2.190
	260357.3376	-0.807719	42.6938	-0.001036	-0.014
32°45'	360315.1914	30.804061	3413.5842	0.015125	2.189
	260308.8745	-0.808086	42.6316	-0.001036	-0.014
32°46'	362163.4351	30.804143	3414.4917	0.015106	2.189
	260260.3893	-0.808454	42.5694	-0.001036	-0.014
32°47'	364011.6837	30.804225	3415.3980	0.015087	2.188
	260211.8820	-0.808821	42.5072	-0.001036	-0.014

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0028

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°48'	365859.9372	30.804308	3416.3032	0.015067	2.188
	260163.3528	-0.809189	42.4451	-0.001036	-0.014
32°49'	367708.1956	30.804390	3417.2073	0.015048	2.187
	260114.8015	-0.809556	42.3829	-0.001036	-0.014
32°50'	369556.4590	30.804472	3418.1101	0.015029	2.187
	260066.2281	-0.809923	42.3207	-0.001036	-0.014
32°51'	371404.7273	30.804554	3419.0119	0.015010	2.186
	260017.6327	-0.810290	42.2586	-0.001036	-0.014
32°52'	373253.0006	30.804636	3419.9124	0.014990	2.186
	259969.0153	-0.810657	42.1964	-0.001036	-0.014
32°53'	375101.2787	30.804718	3420.8119	0.014971	2.185
	259920.3759	-0.811024	42.1342	-0.001036	-0.014
32°54'	376949.5618	30.804801	3421.7101	0.014952	2.185
	259871.7144	-0.811391	42.0721	-0.001036	-0.014
32°55'	378797.8499	30.804883	3422.6072	0.014933	2.184
	259823.0310	-0.811758	42.0099	-0.001036	-0.014
32°56'	380646.1428	30.804965	3423.5032	0.014913	2.184
	259774.3255	-0.812125	41.9478	-0.001036	-0.014
32°57'	382494.4407	30.805047	3424.3980	0.014894	2.183
	259725.5980	-0.812491	41.8856	-0.001036	-0.014
32°58'	384342.7436	30.805130	3425.2916	0.014875	2.183
	259676.8485	-0.812858	41.8235	-0.001036	-0.014
32°59'	386191.0514	30.805212	3426.1841	0.014855	2.182
	259628.0771	-0.813225	41.7613	-0.001036	-0.015
33° 0'	388039.3641	30.805294	3427.0754	0.014836	2.182
	259579.2836	-0.813591	41.6992	-0.001036	-0.015
33° 1'	389887.6818	30.805377	3427.9656	0.014817	2.181
	259530.4681	-0.813958	41.6370	-0.001036	-0.015
33° 2'	391736.0044	30.805459	3428.8546	0.014798	2.181
	259481.6306	-0.814324	41.5749	-0.001036	-0.015
33° 3'	393584.3319	30.805542	3429.7425	0.014778	2.180
	259432.7712	-0.814690	41.5128	-0.001036	-0.015
33° 4'	395432.6644	30.805624	3430.6292	0.014759	2.180
	259383.8898	-0.815057	41.4506	-0.001035	-0.015
33° 5'	397281.0019	30.805707	3431.5147	0.014740	2.179
	259334.9864	-0.815423	41.3885	-0.001035	-0.015
33° 6'	399129.3443	30.805789	3432.3991	0.014720	2.179
	259286.0610	-0.815789	41.3264	-0.001035	-0.015
33° 7'	400977.6916	30.805872	3433.2823	0.014701	2.178
	259237.1137	-0.816155	41.2643	-0.001035	-0.015
33° 8'	402826.0439	30.805954	3434.1644	0.014682	2.178
	259188.1444	-0.816521	41.2021	-0.001035	-0.015
33° 9'	404674.4012	30.806037	3435.0453	0.014662	2.177
	259139.1531	-0.816887	41.1400	-0.001035	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°10'	406522.7634	30.806119	3435.9250	0.014643	2.177
	259090.1399	-0.817253	41.0779	-0.001035	-0.015
33°11'	408371.1306	30.806202	3436.8036	0.014624	2.176
	259041.1047	-0.817619	41.0158	-0.001035	-0.015
33°12'	410219.5027	30.806285	3437.6810	0.014604	2.175
	258992.0476	-0.817984	40.9537	-0.001035	-0.015
33°13'	412067.8797	30.806367	3438.5572	0.014585	2.175
	258942.9686	-0.818350	40.8916	-0.001035	-0.015
33°14'	413916.2618	30.806450	3439.4323	0.014566	2.174
	258893.8676	-0.818716	40.8295	-0.001035	-0.015
33°15'	415764.6488	30.806533	3440.3063	0.014546	2.174
	258844.7446	-0.819081	40.7674	-0.001035	-0.015
33°16'	417613.0407	30.806615	3441.1790	0.014527	2.173
	258795.5998	-0.819447	40.7053	-0.001035	-0.015
33°17'	419461.4376	30.806698	3442.0506	0.014507	2.173
	258746.4330	-0.819812	40.6432	-0.001035	-0.015
33°18'	421309.8395	30.806781	3442.9211	0.014488	2.172
	258697.2442	-0.820177	40.5811	-0.001035	-0.015
33°19'	423158.2464	30.806864	3443.7904	0.014469	2.172
	258648.0336	-0.820543	40.5191	-0.001035	-0.015
33°20'	425006.6582	30.806946	3444.6585	0.014449	2.171
	258598.8011	-0.820908	40.4570	-0.001035	-0.015
33°21'	426855.0750	30.807029	3445.5254	0.014430	2.171
	258549.5466	-0.821273	40.3949	-0.001034	-0.015
33°22'	428703.4967	30.807112	3446.3912	0.014410	2.170
	258500.2702	-0.821638	40.3328	-0.001034	-0.015
33°23'	430551.9234	30.807195	3447.2559	0.014391	2.169
	258450.9720	-0.822003	40.2708	-0.001034	-0.016
33°24'	432400.3551	30.807278	3448.1193	0.014372	2.169
	258401.6518	-0.822368	40.2087	-0.001034	-0.016
33°25'	434248.7918	30.807361	3448.9816	0.014352	2.168
	258352.3097	-0.822733	40.1467	-0.001034	-0.016
33°26'	436097.2334	30.807444	3449.8427	0.014333	2.168
	258302.9458	-0.823097	40.0846	-0.001034	-0.016
33°27'	437945.6800	30.807526	3450.7027	0.014313	2.167
	258253.5599	-0.823462	40.0226	-0.001034	-0.016
33°28'	439794.1316	30.807609	3451.5615	0.014294	2.167
	258204.1522	-0.823827	39.9605	-0.001034	-0.016
33°29'	441642.5882	30.807692	3452.4191	0.014274	2.166
	258154.7226	-0.824191	39.8985	-0.001034	-0.016
33°30'	443491.0497	30.807775	3453.2756	0.014255	2.166
	258105.2711	-0.824556	39.8364	-0.001034	-0.016
33°31'	445339.5162	30.807858	3454.1309	0.014236	2.165
	258055.7977	-0.824920	39.7744	-0.001034	-0.016

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°32'	447187.9877	30.807941	3454.9851	0.014216	2.164
	258006.3025	-0.825285	39.7124	-0.001034	-0.016
33°33'	449036.4642	30.808025	3455.8380	0.014197	2.164
	257956.7854	-0.825649	39.6503	-0.001034	-0.016
33°34'	450884.9457	30.808108	3456.6898	0.014177	2.163
	257907.2465	-0.826013	39.5883	-0.001034	-0.016
33°35'	452733.4322	30.808191	3457.5405	0.014158	2.163
	257857.6857	-0.826378	39.5263	-0.001034	-0.016
33°36'	454581.9236	30.808274	3458.3899	0.014138	2.162
	257808.1030	-0.826742	39.4643	-0.001033	-0.016
33°37'	456430.4200	30.808357	3459.2382	0.014119	2.162
	257758.4985	-0.827106	39.4023	-0.001033	-0.016
33°38'	458278.9215	30.808440	3460.0854	0.014099	2.161
	257708.8722	-0.827470	39.3403	-0.001033	-0.016
33°39'	460127.4279	30.808523	3460.9313	0.014080	2.160
	257659.2240	-0.827834	39.2783	-0.001033	-0.016
33°40'	461975.9393	30.808607	3461.7761	0.014060	2.160
	257609.5540	-0.828197	39.2163	-0.001033	-0.016
33°41'	463824.4557	30.808690	3462.6197	0.014041	2.159
	257559.8621	-0.828561	39.1543	-0.001033	-0.016
33°42'	465672.9771	30.808773	3463.4622	0.014021	2.159
	257510.1485	-0.828925	39.0923	-0.001033	-0.016
33°43'	467521.5034	30.808856	3464.3035	0.014002	2.158
	257460.4130	-0.829289	39.0303	-0.001033	-0.016
33°44'	469370.0348	30.808940	3465.1436	0.013982	2.157
	257410.6557	-0.829652	38.9684	-0.001033	-0.016
33°45'	471218.5712	30.809023	3465.9825	0.013963	2.157
	257360.8765	-0.830016	38.9064	-0.001033	-0.016
33°46'	473067.1126	30.809106	3466.8203	0.013943	2.156
	257311.0756	-0.830379	38.8444	-0.001033	-0.016
33°47'	474915.6590	30.809190	3467.6569	0.013924	2.156
	257261.2528	-0.830742	38.7825	-0.001033	-0.016
33°48'	476764.2103	30.809273	3468.4923	0.013904	2.155
	257211.4083	-0.831106	38.7205	-0.001033	-0.016
33°49'	478612.7667	30.809356	3469.3266	0.013885	2.155
	257161.5420	-0.831469	38.6586	-0.001032	-0.017
33°50'	480461.3281	30.809440	3470.1596	0.013865	2.154
	257111.6538	-0.831832	38.5966	-0.001032	-0.017
33°51'	482309.8945	30.809523	3470.9916	0.013846	2.153
	257061.7439	-0.832195	38.5347	-0.001032	-0.017
33°52'	484158.4659	30.809607	3471.8223	0.013826	2.153
	257011.8122	-0.832558	38.4727	-0.001032	-0.017
33°53'	486007.0423	30.809690	3472.6519	0.013807	2.152
	256961.8587	-0.832921	38.4108	-0.001032	-0.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°54'	487855.6237	30.809774	3473.4803	0.013787	2.152
	256911.8834	-0.833284	38.3489	-0.001032	-0.017
33°55'	489704.2101	30.809857	3474.3075	0.013767	2.151
	256861.8863	-0.833647	38.2870	-0.001032	-0.017
33°56'	491552.8016	30.809941	3475.1335	0.013748	2.150
	256811.8675	-0.834010	38.2250	-0.001032	-0.017
33°57'	493401.3980	30.810024	3475.9584	0.013728	2.150
	256761.8269	-0.834372	38.1631	-0.001032	-0.017
33°58'	495249.9995	30.810108	3476.7821	0.013709	2.149
	256711.7646	-0.834735	38.1012	-0.001032	-0.017
33°59'	497098.6059	30.810191	3477.6046	0.013689	2.148
	256661.6805	-0.835098	38.0393	-0.001032	-0.017
34° 0'	498947.2174	30.810275	3478.4260	0.013670	2.148
	256611.5746	-0.835460	37.9774	-0.001032	-0.017
34° 1'	500795.8339	30.810359	3479.2461	0.013650	2.147
	256561.4470	-0.835823	37.9155	-0.001031	-0.017
34° 2'	502644.4555	30.810442	3480.0651	0.013630	2.147
	256511.2977	-0.836185	37.8536	-0.001031	-0.017
34° 3'	504493.0820	30.810526	3480.8830	0.013611	2.146
	256461.1266	-0.836547	37.7918	-0.001031	-0.017
34° 4'	506341.7136	30.810610	3481.6996	0.013591	2.145
	256410.9337	-0.836909	37.7299	-0.001031	-0.017
34° 5'	508190.3502	30.810693	3482.5151	0.013572	2.145
	256360.7192	-0.837272	37.6680	-0.001031	-0.017
34° 6'	510038.9918	30.810777	3483.3294	0.013552	2.144
	256310.4829	-0.837634	37.6062	-0.001031	-0.017
34° 7'	511887.6384	30.810861	3484.1425	0.013532	2.144
	256260.2249	-0.837996	37.5443	-0.001031	-0.017
34° 8'	513736.2901	30.810945	3484.9544	0.013513	2.143
	256209.9451	-0.838358	37.4825	-0.001031	-0.017
34° 9'	515584.9467	30.811029	3485.7652	0.013493	2.142
	256159.6437	-0.838719	37.4206	-0.001031	-0.017
34°10'	517433.6085	30.811112	3486.5748	0.013473	2.142
	256109.3205	-0.839081	37.3588	-0.001031	-0.017
34°11'	519282.2752	30.811196	3487.3832	0.013454	2.141
	256058.9756	-0.839443	37.2969	-0.001030	-0.017
34°12'	521130.9470	30.811280	3488.1904	0.013434	2.140
	256008.6091	-0.839805	37.2351	-0.001030	-0.017
34°13'	522979.6238	30.811364	3488.9965	0.013415	2.140
	255958.2208	-0.840166	37.1733	-0.001030	-0.017
34°14'	524828.3056	30.811448	3489.8013	0.013395	2.139
	255907.8108	-0.840528	37.1115	-0.001030	-0.017
34°15'	526676.9925	30.811532	3490.6050	0.013375	2.139
	255857.3791	-0.840889	37.0497	-0.001030	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°16'	528525.6844	30.811616	3491.4075	0.013356	2.138
	255806.9258	-0.841251	36.9878	-0.001030	-0.018
34°17'	530374.3813	30.811700	3492.2089	0.013336	2.137
	255756.4507	-0.841612	36.9260	-0.001030	-0.018
34°18'	532223.0833	30.811784	3493.0090	0.013316	2.137
	255705.9540	-0.841973	36.8643	-0.001030	-0.018
34°19'	534071.7903	30.811868	3493.8080	0.013297	2.136
	255655.4356	-0.842334	36.8025	-0.001030	-0.018
34°20'	535920.5024	30.811952	3494.6058	0.013277	2.135
	255604.8956	-0.842696	36.7407	-0.001030	-0.018
34°21'	537769.2195	30.812036	3495.4024	0.013257	2.135
	255554.3338	-0.843057	36.6789	-0.001029	-0.018
34°22'	539617.9416	30.812120	3496.1978	0.013238	2.134
	255503.7504	-0.843418	36.6171	-0.001029	-0.018
34°23'	541466.6688	30.812204	3496.9921	0.013218	2.133
	255453.1454	-0.843778	36.5554	-0.001029	-0.018
34°24'	543315.4010	30.812288	3497.7852	0.013198	2.133
	255402.5187	-0.844139	36.4936	-0.001029	-0.018
34°25'	545164.1383	30.812372	3498.5770	0.013178	2.132
	255351.8703	-0.844500	36.4319	-0.001029	-0.018
34°26'	547012.8806	30.812456	3499.3678	0.013159	2.131
	255301.2003	-0.844861	36.3701	-0.001029	-0.018
34°27'	548861.6280	30.812540	3500.1573	0.013139	2.131
	255250.5087	-0.845221	36.3084	-0.001029	-0.018
34°28'	550710.3804	30.812624	3500.9456	0.013119	2.130
	255199.7954	-0.845582	36.2467	-0.001029	-0.018
34°29'	552559.1379	30.812709	3501.7328	0.013100	2.130
	255149.0605	-0.845943	36.1849	-0.001029	-0.018
34°30'	554407.9004	30.812793	3502.5188	0.013080	2.129
	255098.3039	-0.846303	36.1232	-0.001029	-0.018
34°31'	556256.6680	30.812877	3503.3035	0.013060	2.128
	255047.5257	-0.846663	36.0615	-0.001028	-0.018
34°32'	558105.4406	30.812961	3504.0872	0.013040	2.128
	254996.7259	-0.847024	35.9998	-0.001028	-0.018
34°33'	559954.2183	30.813046	3504.8696	0.013021	2.127
	254945.9045	-0.847384	35.9381	-0.001028	-0.018
34°34'	561803.0010	30.813130	3505.6508	0.013001	2.126
	254895.0615	-0.847744	35.8764	-0.001028	-0.018
34°35'	563651.7888	30.813214	3506.4309	0.012981	2.126
	254844.1968	-0.848104	35.8147	-0.001028	-0.018
34°36'	565500.5816	30.813298	3507.2097	0.012961	2.125
	254793.3106	-0.848464	35.7531	-0.001028	-0.018
34°37'	567349.3795	30.813383	3507.9874	0.012942	2.124
	254742.4028	-0.848824	35.6914	-0.001028	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°38'	569198.1825	30.813467	3508.7639	0.012922	2.124
	254691.4733	-0.849184	35.6297	-0.001028	-0.018
34°39'	571046.9905	30.813552	3509.5392	0.012902	2.123
	254640.5223	-0.849544	35.5681	-0.001027	-0.018
34°40'	572895.8036	30.813636	3510.3134	0.012882	2.122
	254589.5497	-0.849903	35.5064	-0.001027	-0.018
34°41'	574744.6218	30.813720	3511.0863	0.012863	2.122
	254538.5555	-0.850263	35.4448	-0.001027	-0.019
34°42'	576593.4450	30.813805	3511.8581	0.012843	2.121
	254487.5397	-0.850623	35.3831	-0.001027	-0.019
34°43'	578442.2733	30.813889	3512.6287	0.012823	2.120
	254436.5023	-0.850982	35.3215	-0.001027	-0.019
34°44'	580291.1067	30.813974	3513.3980	0.012803	2.120
	254385.4434	-0.851342	35.2599	-0.001027	-0.019
34°45'	582139.9451	30.814058	3514.1662	0.012784	2.119
	254334.3629	-0.851701	35.1983	-0.001027	-0.019
34°46'	583988.7886	30.814143	3514.9332	0.012764	2.118
	254283.2608	-0.852060	35.1367	-0.001027	-0.019
34°47'	585837.6371	30.814227	3515.6991	0.012744	2.118
	254232.1372	-0.852420	35.0751	-0.001027	-0.019
34°48'	587686.4908	30.814312	3516.4637	0.012724	2.117
	254180.9920	-0.852779	35.0135	-0.001026	-0.019
34°49'	589535.3495	30.814396	3517.2271	0.012704	2.116
	254129.8253	-0.853138	34.9519	-0.001026	-0.019
34°50'	591384.2133	30.814481	3517.9894	0.012684	2.115
	254078.6370	-0.853497	34.8903	-0.001026	-0.019
34°51'	593233.0821	30.814566	3518.7505	0.012665	2.115
	254027.4272	-0.853856	34.8287	-0.001026	-0.019
34°52'	595081.9560	30.814650	3519.5104	0.012645	2.114
	253976.1958	-0.854215	34.7672	-0.001026	-0.019
34°53'	596930.8351	30.814735	3520.2690	0.012625	2.113
	253924.9429	-0.854574	34.7056	-0.001026	-0.019
34°54'	598779.7191	30.814819	3521.0265	0.012605	2.113
	253873.6685	-0.854932	34.6441	-0.001026	-0.019
34°55'	600628.6083	30.814904	3521.7829	0.012585	2.112
	253822.3726	-0.855291	34.5825	-0.001026	-0.019
34°56'	602477.5026	30.814989	3522.5380	0.012566	2.111
	253771.0551	-0.855650	34.5210	-0.001025	-0.019
34°57'	604326.4019	30.815074	3523.2919	0.012546	2.111
	253719.7161	-0.856008	34.4595	-0.001025	-0.019
34°58'	606175.3063	30.815158	3524.0447	0.012526	2.110
	253668.3556	-0.856367	34.3979	-0.001025	-0.019
34°59'	608024.2158	30.815243	3524.7962	0.012506	2.109
	253616.9736	-0.856725	34.3364	-0.001025	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35° 0'	609873.1304	30.815328	3525.5466	0.012486	2.109
	253565.5701	-0.857084	34.2749	-0.001025	-0.019
35° 1'	611722.0500	30.815413	3526.2957	0.012466	2.108
	253514.1451	-0.857442	34.2134	-0.001025	-0.019
35° 2'	613570.9748	30.815497	3527.0437	0.012446	2.107
	253462.6986	-0.857800	34.1520	-0.001025	-0.019
35° 3'	615419.9046	30.815582	3527.7905	0.012427	2.106
	253411.2306	-0.858158	34.0905	-0.001025	-0.019
35° 4'	617268.8396	30.815667	3528.5361	0.012407	2.106
	253359.7411	-0.858516	34.0290	-0.001024	-0.019
35° 5'	619117.7796	30.815752	3529.2805	0.012387	2.105
	253308.2301	-0.858874	33.9675	-0.001024	-0.019
35° 6'	620966.7247	30.815837	3530.0237	0.012367	2.104
	253256.6977	-0.859232	33.9061	-0.001024	-0.019
35° 7'	622815.6749	30.815922	3530.7657	0.012347	2.104
	253205.1437	-0.859590	33.8446	-0.001024	-0.019
35° 8'	624664.6302	30.816007	3531.5065	0.012327	2.103
	253153.5683	-0.859948	33.7832	-0.001024	-0.019
35° 9'	626513.5906	30.816092	3532.2462	0.012307	2.102
	253101.9715	-0.860305	33.7218	-0.001024	-0.020
35°10'	628362.5561	30.816176	3532.9846	0.012287	2.101
	253050.3532	-0.860663	33.6603	-0.001024	-0.020
35°11'	630211.5267	30.816261	3533.7219	0.012267	2.101
	252998.7134	-0.861021	33.5989	-0.001023	-0.020
35°12'	632060.5024	30.816346	3534.4579	0.012248	2.100
	252947.0521	-0.861378	33.5375	-0.001023	-0.020
35°13'	633909.4832	30.816431	3535.1928	0.012228	2.099
	252895.3694	-0.861736	33.4761	-0.001023	-0.020
35°14'	635758.4691	30.816516	3535.9264	0.012208	2.099
	252843.6653	-0.862093	33.4147	-0.001023	-0.020
35°15'	637607.4601	30.816602	3536.6589	0.012188	2.098
	252791.9397	-0.862450	33.3533	-0.001023	-0.020
35°16'	639456.4561	30.816687	3537.3902	0.012168	2.097
	252740.1927	-0.862807	33.2920	-0.001023	-0.020
35°17'	641305.4573	30.816772	3538.1202	0.012148	2.096
	252688.4243	-0.863165	33.2306	-0.001023	-0.020
35°18'	643154.4636	30.816857	3538.8491	0.012128	2.096
	252636.6344	-0.863522	33.1692	-0.001022	-0.020
35°19'	645003.4750	30.816942	3539.5768	0.012108	2.095
	252584.8231	-0.863879	33.1079	-0.001022	-0.020
35°20'	646852.4916	30.817027	3540.3033	0.012088	2.094
	252532.9904	-0.864236	33.0466	-0.001022	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
29°30'	-0.0000	30.788516	1439.4578	0.016206	17.520
	37128.1625	0.101366	249.8897	0.002872	3.069
29°31'	1847.3109	30.788593	1440.4302	0.016211	17.535
	37134.2445	0.101452	250.0620	0.002876	3.073
29°32'	3694.6265	30.788670	1441.4028	0.016216	17.551
	37140.3316	0.101537	250.2345	0.002879	3.077
29°33'	5541.9467	30.788747	1442.3758	0.016221	17.567
	37146.4238	0.101623	250.4073	0.002883	3.081
29°34'	7389.2716	30.788825	1443.3490	0.016226	17.582
	37152.5212	0.101709	250.5803	0.002886	3.085
29°35'	9236.6010	30.788902	1444.3226	0.016232	17.598
	37158.6237	0.101794	250.7535	0.002890	3.089
29°36'	11083.9352	30.788979	1445.2965	0.016237	17.614
	37164.7314	0.101880	250.9268	0.002893	3.093
29°37'	12931.2739	30.789057	1446.2707	0.016242	17.629
	37170.8442	0.101966	251.1004	0.002897	3.097
29°38'	14778.6173	30.789134	1447.2453	0.016248	17.645
	37176.9622	0.102052	251.2743	0.002900	3.101
29°39'	16625.9654	30.789212	1448.2201	0.016253	17.661
	37183.0853	0.102138	251.4483	0.002904	3.105
29°40'	18473.3181	30.789289	1449.1953	0.016258	17.676
	37189.2136	0.102225	251.6225	0.002908	3.109
29°41'	20320.6754	30.789367	1450.1708	0.016263	17.692
	37195.3471	0.102311	251.7970	0.002911	3.113
29°42'	22168.0374	30.789444	1451.1466	0.016269	17.708
	37201.4857	0.102397	251.9716	0.002915	3.118
29°43'	24015.4041	30.789522	1452.1227	0.016274	17.724
	37207.6295	0.102483	252.1465	0.002918	3.122
29°44'	25862.7754	30.789599	1453.0991	0.016279	17.739
	37213.7785	0.102570	252.3216	0.002922	3.126
29°45'	27710.1514	30.789677	1454.0759	0.016285	17.755
	37219.9327	0.102656	252.4969	0.002925	3.130
29°46'	29557.5320	30.789755	1455.0530	0.016290	17.771
	37226.0921	0.102743	252.6724	0.002929	3.134
29°47'	31404.9173	30.789832	1456.0304	0.016295	17.787
	37232.2566	0.102829	252.8482	0.002932	3.138
29°48'	33252.3072	30.789910	1457.0081	0.016300	17.802
	37238.4264	0.102916	253.0241	0.002936	3.142
29°49'	35099.7018	30.789988	1457.9861	0.016306	17.818
	37244.6013	0.103002	253.2003	0.002940	3.146
29°50'	36947.1011	30.790066	1458.9644	0.016311	17.834
	37250.7815	0.103089	253.3767	0.002943	3.150
29°51'	38794.5050	30.790143	1459.9431	0.016316	17.850
	37256.9668	0.103176	253.5533	0.002947	3.155

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
29°52'	40641.9136	30.790221	1460.9221	0.016322	17.866
	37263.1574	0.103263	253.7301	0.002950	3.159
29°53'	42489.3269	30.790299	1461.9014	0.016327	17.882
	37269.3532	0.103350	253.9071	0.002954	3.163
29°54'	44336.7448	30.790377	1462.8810	0.016332	17.898
	37275.5541	0.103437	254.0843	0.002958	3.167
29°55'	46184.1674	30.790455	1463.8610	0.016338	17.914
	37281.7603	0.103524	254.2618	0.002961	3.171
29°56'	48031.5947	30.790533	1464.8412	0.016343	17.929
	37287.9718	0.103611	254.4395	0.002965	3.175
29°57'	49879.0267	30.790611	1465.8218	0.016349	17.945
	37294.1884	0.103698	254.6174	0.002969	3.180
29°58'	51726.4633	30.790689	1466.8028	0.016354	17.961
	37300.4103	0.103785	254.7955	0.002972	3.184
29°59'	53573.9046	30.790767	1467.7840	0.016359	17.977
	37306.6374	0.103873	254.9738	0.002976	3.188
30° 0'	55421.3506	30.790845	1468.7655	0.016365	17.993
	37312.8698	0.103960	255.1524	0.002979	3.192
30° 1'	57268.8013	30.790923	1469.7474	0.016370	18.009
	37319.1074	0.104047	255.3311	0.002983	3.196
30° 2'	59116.2566	30.791001	1470.7296	0.016376	18.025
	37325.3502	0.104135	255.5101	0.002987	3.201
30° 3'	60963.7167	30.791079	1471.7122	0.016381	18.041
	37331.5983	0.104222	255.6893	0.002990	3.205
30° 4'	62811.1814	30.791157	1472.6950	0.016386	18.057
	37337.8516	0.104310	255.8687	0.002994	3.209
30° 5'	64658.6508	30.791235	1473.6782	0.016392	18.073
	37344.1102	0.104398	256.0484	0.002998	3.213
30° 6'	66506.1249	30.791313	1474.6617	0.016397	18.089
	37350.3741	0.104485	256.2282	0.003001	3.218
30° 7'	68353.6037	30.791391	1475.6455	0.016403	18.106
	37356.6432	0.104573	256.4083	0.003005	3.222
30° 8'	70201.0872	30.791470	1476.6297	0.016408	18.122
	37362.9176	0.104661	256.5886	0.003009	3.226
30° 9'	72048.5754	30.791548	1477.6142	0.016413	18.138
	37369.1972	0.104749	256.7691	0.003012	3.230
30°10'	73896.0682	30.791626	1478.5990	0.016419	18.154
	37375.4821	0.104837	256.9499	0.003016	3.235
30°11'	75743.5658	30.791705	1479.5841	0.016424	18.170
	37381.7724	0.104925	257.1308	0.003020	3.239
30°12'	77591.0681	30.791783	1480.5696	0.016430	18.186
	37388.0678	0.105013	257.3120	0.003023	3.243
30°13'	79438.5751	30.791861	1481.5553	0.016435	18.202
	37394.3686	0.105101	257.4934	0.003027	3.248

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30°14'	81286.0867	30.791940	1482.5415	0.016441	18.218
	37400.6747	0.105189	257.6751	0.003031	3.252
30°15'	83133.6031	30.792018	1483.5279	0.016446	18.235
	37406.9860	0.105278	257.8569	0.003035	3.256
30°16'	84981.1242	30.792096	1484.5147	0.016452	18.251
	37413.3027	0.105366	258.0390	0.003038	3.261
30°17'	86828.6500	30.792175	1485.5018	0.016457	18.267
	37419.6246	0.105454	258.2213	0.003042	3.265
30°18'	88676.1805	30.792253	1486.4892	0.016463	18.283
	37425.9519	0.105543	258.4038	0.003046	3.269
30°19'	90523.7157	30.792332	1487.4770	0.016468	18.299
	37432.2845	0.105631	258.5866	0.003049	3.274
30°20'	92371.2556	30.792410	1488.4650	0.016474	18.316
	37438.6223	0.105720	258.7695	0.003053	3.278
30°21'	94218.8002	30.792489	1489.4535	0.016479	18.332
	37444.9655	0.105809	258.9527	0.003057	3.282
30°22'	96066.3496	30.792568	1490.4422	0.016485	18.348
	37451.3141	0.105897	259.1361	0.003061	3.287
30°23'	97913.9036	30.792646	1491.4313	0.016490	18.364
	37457.6679	0.105986	259.3198	0.003064	3.291
30°24'	99761.4624	30.792725	1492.4207	0.016496	18.381
	37464.0271	0.106075	259.5036	0.003068	3.296
30°25'	101609.0259	30.792804	1493.4104	0.016501	18.397
	37470.3916	0.106164	259.6877	0.003072	3.300
30°26'	103456.5941	30.792882	1494.4005	0.016507	18.413
	37476.7614	0.106253	259.8721	0.003076	3.304
30°27'	105304.1670	30.792961	1495.3909	0.016512	18.430
	37483.1366	0.106342	260.0566	0.003080	3.309
30°28'	107151.7447	30.793040	1496.3816	0.016518	18.446
	37489.5171	0.106431	260.2414	0.003083	3.313
30°29'	108999.3271	30.793119	1497.3727	0.016523	18.462
	37495.9029	0.106520	260.4264	0.003087	3.318
30°30'	110846.9142	30.793197	1498.3641	0.016529	18.479
	37502.2941	0.106609	260.6116	0.003091	3.322
30°31'	112694.5060	30.793276	1499.3558	0.016534	18.495
	37508.6907	0.106699	260.7971	0.003095	3.326
30°32'	114542.1026	30.793355	1500.3479	0.016540	18.512
	37515.0926	0.106788	260.9827	0.003098	3.331
30°33'	116389.7039	30.793434	1501.3403	0.016546	18.528
	37521.4999	0.106877	261.1686	0.003102	3.335
30°34'	118237.3100	30.793513	1502.3330	0.016551	18.544
	37527.9126	0.106967	261.3548	0.003106	3.340
30°35'	120084.9207	30.793592	1503.3261	0.016557	18.561
	37534.3306	0.107057	261.5411	0.003110	3.344

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30°36'	121932.5362	30.793671	1504.3195	0.016562	18.577
	37540.7540	0.107146	261.7277	0.003114	3.349
30°37'	123780.1565	30.793750	1505.3132	0.016568	18.594
	37547.1827	0.107236	261.9146	0.003118	3.353
30°38'	125627.7815	30.793829	1506.3073	0.016573	18.610
	37553.6169	0.107326	262.1016	0.003121	3.358
30°39'	127475.4112	30.793908	1507.3017	0.016579	18.627
	37560.0564	0.107415	262.2889	0.003125	3.362
30°40'	129323.0456	30.793987	1508.2964	0.016585	18.643
	37566.5013	0.107505	262.4764	0.003129	3.367
30°41'	131170.6848	30.794066	1509.2915	0.016590	18.660
	37572.9517	0.107595	262.6642	0.003133	3.371
30°42'	133018.3288	30.794145	1510.2869	0.016596	18.676
	37579.4074	0.107685	262.8521	0.003137	3.376
30°43'	134865.9775	30.794224	1511.2827	0.016602	18.693
	37585.8685	0.107775	263.0403	0.003141	3.380
30°44'	136713.6310	30.794303	1512.2788	0.016607	18.710
	37592.3350	0.107865	263.2288	0.003144	3.385
30°45'	138561.2891	30.794382	1513.2752	0.016613	18.726
	37598.8069	0.107956	263.4174	0.003148	3.389
30°46'	140408.9521	30.794462	1514.2720	0.016618	18.743
	37605.2843	0.108046	263.6063	0.003152	3.394
30°47'	142256.6198	30.794541	1515.2691	0.016624	18.759
	37611.7670	0.108136	263.7955	0.003156	3.399
30°48'	144104.2923	30.794620	1516.2665	0.016630	18.776
	37618.2552	0.108227	263.9848	0.003160	3.403
30°49'	145951.9695	30.794699	1517.2643	0.016635	18.793
	37624.7488	0.108317	264.1744	0.003164	3.408
30°50'	147799.6514	30.794779	1518.2624	0.016641	18.809
	37631.2478	0.108408	264.3642	0.003168	3.412
30°51'	149647.3382	30.794858	1519.2609	0.016647	18.826
	37637.7523	0.108498	264.5543	0.003172	3.417
30°52'	151495.0297	30.794938	1520.2597	0.016652	18.843
	37644.2622	0.108589	264.7446	0.003176	3.421
30°53'	153342.7259	30.795017	1521.2588	0.016658	18.859
	37650.7775	0.108680	264.9351	0.003179	3.426
30°54'	155190.4269	30.795096	1522.2583	0.016664	18.876
	37657.2983	0.108770	265.1259	0.003183	3.431
30°55'	157038.1327	30.795176	1523.2582	0.016669	18.893
	37663.8245	0.108861	265.3169	0.003187	3.435
30°56'	158885.8432	30.795255	1524.2583	0.016675	18.910
	37670.3562	0.108952	265.5081	0.003191	3.440
30°57'	160733.5586	30.795335	1525.2588	0.016681	18.926
	37676.8933	0.109043	265.6996	0.003195	3.445

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
30°58'	162581.2786	30.795414	1526.2597	0.016687	18.943
	37683.4359	0.109134	265.8913	0.003199	3.449
30°59'	164429.0035	30.795494	1527.2609	0.016692	18.960
	37689.9840	0.109225	266.0833	0.003203	3.454
31° 0'	166276.7331	30.795573	1528.2624	0.016698	18.977
	37696.5375	0.109317	266.2754	0.003207	3.459
31° 1'	168124.4675	30.795653	1529.2643	0.016704	18.994
	37703.0965	0.109408	266.4678	0.003211	3.463
31° 2'	169972.2067	30.795733	1530.2665	0.016710	19.010
	37709.6610	0.109499	266.6605	0.003215	3.468
31° 3'	171819.9507	30.795812	1531.2691	0.016715	19.027
	37716.2309	0.109591	266.8534	0.003219	3.473
31° 4'	173667.6994	30.795892	1532.2720	0.016721	19.044
	37722.8064	0.109682	267.0465	0.003223	3.477
31° 5'	175515.4529	30.795972	1533.2753	0.016727	19.061
	37729.3873	0.109774	267.2399	0.003227	3.482
31° 6'	177363.2112	30.796051	1534.2789	0.016733	19.078
	37735.9737	0.109865	267.4335	0.003231	3.487
31° 7'	179210.9743	30.796131	1535.2828	0.016738	19.095
	37742.5656	0.109957	267.6273	0.003235	3.491
31° 8'	181058.7421	30.796211	1536.2871	0.016744	19.112
	37749.1630	0.110049	267.8214	0.003239	3.496
31° 9'	182906.5148	30.796291	1537.2918	0.016750	19.129
	37755.7659	0.110140	268.0157	0.003243	3.501
31°10'	184754.2922	30.796370	1538.2968	0.016756	19.146
	37762.3743	0.110232	268.2103	0.003247	3.506
31°11'	186602.0744	30.796450	1539.3021	0.016761	19.163
	37768.9883	0.110324	268.4051	0.003251	3.510
31°12'	188449.8614	30.796530	1540.3078	0.016767	19.180
	37775.6077	0.110416	268.6001	0.003255	3.515
31°13'	190297.6532	30.796610	1541.3138	0.016773	19.197
	37782.2327	0.110508	268.7954	0.003259	3.520
31°14'	192145.4498	30.796690	1542.3202	0.016779	19.214
	37788.8632	0.110600	268.9909	0.003263	3.525
31°15'	193993.2512	30.796770	1543.3269	0.016785	19.231
	37795.4992	0.110692	269.1867	0.003267	3.530
31°16'	195841.0574	30.796850	1544.3340	0.016790	19.248
	37802.1407	0.110785	269.3827	0.003271	3.534
31°17'	197688.8684	30.796930	1545.3414	0.016796	19.265
	37808.7878	0.110877	269.5789	0.003275	3.539
31°18'	199536.6842	30.797010	1546.3492	0.016802	19.282
	37815.4405	0.110969	269.7754	0.003279	3.544
31°19'	201384.5048	30.797090	1547.3573	0.016808	19.299
	37822.0986	0.111062	269.9722	0.003283	3.549

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°20'	203232.3302	30.797170	1548.3658	0.016814	19.316
	37828.7623	0.111154	270.1691	0.003287	3.554
31°21'	205080.1603	30.797250	1549.3746	0.016820	19.333
	37835.4316	0.111247	270.3663	0.003291	3.558
31°22'	206927.9953	30.797330	1550.3838	0.016825	19.350
	37842.1064	0.111340	270.5638	0.003295	3.563
31°23'	208775.8351	30.797410	1551.3933	0.016831	19.367
	37848.7868	0.111433	270.7615	0.003299	3.568
31°24'	210623.6797	30.797490	1552.4032	0.016837	19.385
	37855.4728	0.111525	270.9595	0.003303	3.573
31°25'	212471.5292	30.797570	1553.4135	0.016843	19.402
	37862.1643	0.111618	271.1576	0.003307	3.578
31°26'	214319.3834	30.797651	1554.4240	0.016849	19.419
	37868.8614	0.111711	271.3561	0.003311	3.583
31°27'	216167.2424	30.797731	1555.4350	0.016855	19.436
	37875.5641	0.111804	271.5548	0.003315	3.588
31°28'	218015.1063	30.797811	1556.4463	0.016861	19.453
	37882.2723	0.111897	271.7537	0.003320	3.593
31°29'	219862.9750	30.797891	1557.4579	0.016867	19.471
	37888.9861	0.111990	271.9529	0.003324	3.597
31°30'	221710.8485	30.797972	1558.4699	0.016873	19.488
	37895.7056	0.112084	272.1523	0.003328	3.602
31°31'	223558.7268	30.798052	1559.4823	0.016878	19.505
	37902.4306	0.112177	272.3520	0.003332	3.607
31°32'	225406.6099	30.798132	1560.4950	0.016884	19.522
	37909.1612	0.112270	272.5519	0.003336	3.612
31°33'	227254.4978	30.798213	1561.5080	0.016890	19.540
	37915.8974	0.112364	272.7520	0.003340	3.617
31°34'	229102.3906	30.798293	1562.5214	0.016896	19.557
	37922.6392	0.112457	272.9524	0.003344	3.622
31°35'	230950.2882	30.798374	1563.5352	0.016902	19.574
	37929.3867	0.112551	273.1531	0.003348	3.627
31°36'	232798.1906	30.798454	1564.5493	0.016908	19.592
	37936.1397	0.112644	273.3540	0.003353	3.632
31°37'	234646.0979	30.798535	1565.5638	0.016914	19.609
	37942.8984	0.112738	273.5552	0.003357	3.637
31°38'	236494.0099	30.798615	1566.5787	0.016920	19.626
	37949.6627	0.112832	273.7566	0.003361	3.642
31°39'	238341.9268	30.798696	1567.5939	0.016926	19.644
	37956.4326	0.112926	273.9582	0.003365	3.647
31°40'	240189.8486	30.798776	1568.6094	0.016932	19.661
	37963.2081	0.113020	274.1601	0.003369	3.652
31°41'	242037.7751	30.798857	1569.6253	0.016938	19.679
	37969.9893	0.113114	274.3623	0.003373	3.657

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°42'	243885.7065	30.798937	1570.6416	0.016944	19.696
	37976.7761	0.113208	274.5647	0.003378	3.662
31°43'	245733.6428	30.799018	1571.6582	0.016950	19.713
	37983.5686	0.113302	274.7673	0.003382	3.667
31°44'	247581.5838	30.799099	1572.6752	0.016956	19.731
	37990.3667	0.113396	274.9702	0.003386	3.672
31°45'	249429.5298	30.799179	1573.6926	0.016962	19.748
	37997.1705	0.113490	275.1734	0.003390	3.677
31°46'	251277.4805	30.799260	1574.7103	0.016968	19.766
	38003.9799	0.113585	275.3768	0.003394	3.682
31°47'	253125.4361	30.799341	1575.7283	0.016974	19.783
	38010.7950	0.113679	275.5804	0.003398	3.687
31°48'	254973.3965	30.799421	1576.7468	0.016980	19.801
	38017.6157	0.113774	275.7843	0.003403	3.692
31°49'	256821.3618	30.799502	1577.7655	0.016986	19.818
	38024.4421	0.113868	275.9885	0.003407	3.697
31°50'	258669.3319	30.799583	1578.7847	0.016992	19.836
	38031.2742	0.113963	276.1929	0.003411	3.702
31°51'	260517.3069	30.799664	1579.8042	0.016998	19.854
	38038.1120	0.114057	276.3976	0.003415	3.708
31°52'	262365.2867	30.799744	1580.8241	0.017004	19.871
	38044.9554	0.114152	276.6025	0.003420	3.713
31°53'	264213.2714	30.799825	1581.8443	0.017010	19.889
	38051.8045	0.114247	276.8077	0.003424	3.718
31°54'	266061.2609	30.799906	1582.8649	0.017016	19.906
	38058.6594	0.114342	277.0131	0.003428	3.723
31°55'	267909.2553	30.799987	1583.8859	0.017022	19.924
	38065.5199	0.114437	277.2188	0.003432	3.728
31°56'	269757.2545	30.800068	1584.9072	0.017028	19.942
	38072.3861	0.114532	277.4247	0.003437	3.733
31°57'	271605.2586	30.800149	1585.9289	0.017034	19.959
	38079.2580	0.114627	277.6309	0.003441	3.738
31°58'	273453.2675	30.800230	1586.9509	0.017040	19.977
	38086.1356	0.114722	277.8374	0.003445	3.744
31°59'	275301.2813	30.800311	1587.9733	0.017046	19.995
	38093.0189	0.114817	278.0441	0.003449	3.749
32° 0'	277149.3000	30.800392	1588.9961	0.017052	20.012
	38099.9080	0.114913	278.2511	0.003454	3.754
32° 1'	278997.3235	30.800473	1590.0193	0.017058	20.030
	38106.8028	0.115008	278.4583	0.003458	3.759
32° 2'	280845.3519	30.800554	1591.0428	0.017065	20.048
	38113.7032	0.115104	278.6658	0.003462	3.764
32° 3'	282693.3851	30.800635	1592.0666	0.017071	20.066
	38120.6095	0.115199	278.8735	0.003467	3.769

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32° 4'	284541.4232	30.800716	1593.0909	0.017077	20.083
	38127.5214	0.115295	279.0815	0.003471	3.775
32° 5'	286389.4662	30.800797	1594.1155	0.017083	20.101
	38134.4391	0.115391	279.2898	0.003475	3.780
32° 6'	288237.5140	30.800878	1595.1405	0.017089	20.119
	38141.3625	0.115486	279.4983	0.003480	3.785
32° 7'	290085.5667	30.800960	1596.1658	0.017095	20.137
	38148.2917	0.115582	279.7070	0.003484	3.790
32° 8'	291933.6243	30.801041	1597.1915	0.017101	20.155
	38155.2266	0.115678	279.9161	0.003488	3.796
32° 9'	293781.6868	30.801122	1598.2176	0.017107	20.172
	38162.1673	0.115774	280.1254	0.003493	3.801
32°10'	295629.7541	30.801203	1599.2440	0.017114	20.190
	38169.1138	0.115870	280.3349	0.003497	3.806
32°11'	297477.8263	30.801285	1600.2709	0.017120	20.208
	38176.0660	0.115966	280.5447	0.003501	3.811
32°12'	299325.9034	30.801366	1601.2980	0.017126	20.226
	38183.0239	0.116062	280.7548	0.003506	3.817
32°13'	301173.9853	30.801447	1602.3256	0.017132	20.244
	38189.9877	0.116159	280.9651	0.003510	3.822
32°14'	303022.0722	30.801529	1603.3535	0.017138	20.262
	38196.9572	0.116255	281.1757	0.003514	3.827
32°15'	304870.1639	30.801610	1604.3818	0.017144	20.280
	38203.9325	0.116351	281.3866	0.003519	3.833
32°16'	306718.2605	30.801691	1605.4105	0.017151	20.298
	38210.9136	0.116448	281.5977	0.003523	3.838
32°17'	308566.3619	30.801773	1606.4395	0.017157	20.316
	38217.9004	0.116544	281.8091	0.003527	3.843
32°18'	310414.4683	30.801854	1607.4689	0.017163	20.334
	38224.8931	0.116641	282.0207	0.003532	3.849
32°19'	312262.5795	30.801936	1608.4987	0.017169	20.352
	38231.8916	0.116738	282.2326	0.003536	3.854
32°20'	314110.6957	30.802017	1609.5289	0.017175	20.370
	38238.8958	0.116835	282.4448	0.003541	3.859
32°21'	315958.8167	30.802099	1610.5594	0.017182	20.388
	38245.9059	0.116931	282.6573	0.003545	3.865
32°22'	317806.9426	30.802180	1611.5903	0.017188	20.406
	38252.9218	0.117028	282.8700	0.003549	3.870
32°23'	319655.0734	30.802262	1612.6216	0.017194	20.424
	38259.9435	0.117125	283.0829	0.003554	3.876
32°24'	321503.2091	30.802343	1613.6532	0.017200	20.442
	38266.9710	0.117222	283.2962	0.003558	3.881
32°25'	323351.3497	30.802425	1614.6852	0.017207	20.460
	38274.0043	0.117320	283.5097	0.003563	3.886

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°26'	325199.4952	30.802506	1615.7176	0.017213	20.478
	38281.0435	0.117417	283.7234	0.003567	3.892
32°27'	327047.6456	30.802588	1616.7504	0.017219	20.497
	38288.0885	0.117514	283.9374	0.003572	3.897
32°28'	328895.8009	30.802670	1617.7835	0.017225	20.515
	38295.1394	0.117611	284.1517	0.003576	3.903
32°29'	330743.9611	30.802751	1618.8171	0.017232	20.533
	38302.1960	0.117709	284.3663	0.003581	3.908
32°30'	332592.1261	30.802833	1619.8510	0.017238	20.551
	38309.2586	0.117806	284.5811	0.003585	3.914
32°31'	334440.2961	30.802915	1620.8852	0.017244	20.569
	38316.3270	0.117904	284.7962	0.003589	3.919
32°32'	336288.4710	30.802997	1621.9199	0.017250	20.588
	38323.4012	0.118002	285.0116	0.003594	3.924
32°33'	338136.6508	30.803078	1622.9549	0.017257	20.606
	38330.4813	0.118099	285.2272	0.003598	3.930
32°34'	339984.8355	30.803160	1623.9903	0.017263	20.624
	38337.5673	0.118197	285.4432	0.003603	3.935
32°35'	341833.0251	30.803242	1625.0261	0.017269	20.642
	38344.6591	0.118295	285.6593	0.003607	3.941
32°36'	343681.2196	30.803324	1626.0623	0.017276	20.661
	38351.7568	0.118393	285.8758	0.003612	3.946
32°37'	345529.4190	30.803406	1627.0988	0.017282	20.679
	38358.8604	0.118491	286.0925	0.003616	3.952
32°38'	347377.6234	30.803487	1628.1357	0.017288	20.697
	38365.9698	0.118589	286.3095	0.003621	3.958
32°39'	349225.8326	30.803569	1629.1730	0.017295	20.716
	38373.0852	0.118687	286.5267	0.003625	3.963
32°40'	351074.0468	30.803651	1630.2107	0.017301	20.734
	38380.2064	0.118786	286.7443	0.003630	3.969
32°41'	352922.2659	30.803733	1631.2487	0.017307	20.752
	38387.3336	0.118884	286.9621	0.003635	3.974
32°42'	354770.4899	30.803815	1632.2872	0.017314	20.771
	38394.4666	0.118982	287.1801	0.003639	3.980
32°43'	356618.7188	30.803897	1633.3260	0.017320	20.789
	38401.6056	0.119081	287.3985	0.003644	3.985
32°44'	358466.9526	30.803979	1634.3652	0.017326	20.808
	38408.7504	0.119179	287.6171	0.003648	3.991
32°45'	360315.1914	30.804061	1635.4048	0.017333	20.826
	38415.9012	0.119278	287.8360	0.003653	3.997
32°46'	362163.4351	30.804143	1636.4448	0.017339	20.844
	38423.0579	0.119377	288.0551	0.003657	4.002
32°47'	364011.6837	30.804225	1637.4851	0.017346	20.863
	38430.2205	0.119476	288.2746	0.003662	4.008

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°48'	365859.9372	30.804308	1638.5258	0.017352	20.881
	38437.3890	0.119574	288.4943	0.003666	4.013
32°49'	367708.1956	30.804390	1639.5670	0.017358	20.900
	38444.5635	0.119673	288.7143	0.003671	4.019
32°50'	369556.4590	30.804472	1640.6085	0.017365	20.918
	38451.7439	0.119772	288.9345	0.003676	4.025
32°51'	371404.7273	30.804554	1641.6503	0.017371	20.937
	38458.9302	0.119872	289.1551	0.003680	4.030
32°52'	373253.0006	30.804636	1642.6926	0.017378	20.956
	38466.1225	0.119971	289.3759	0.003685	4.036
32°53'	375101.2787	30.804718	1643.7353	0.017384	20.974
	38473.3208	0.120070	289.5970	0.003689	4.042
32°54'	376949.5618	30.804801	1644.7783	0.017390	20.993
	38480.5250	0.120169	289.8184	0.003694	4.047
32°55'	378797.8499	30.804883	1645.8217	0.017397	21.011
	38487.7351	0.120269	290.0400	0.003699	4.053
32°56'	380646.1428	30.804965	1646.8655	0.017403	21.030
	38494.9513	0.120368	290.2619	0.003703	4.059
32°57'	382494.4407	30.805047	1647.9097	0.017410	21.049
	38502.1734	0.120468	290.4841	0.003708	4.065
32°58'	384342.7436	30.805130	1648.9543	0.017416	21.067
	38509.4014	0.120567	290.7066	0.003713	4.070
32°59'	386191.0514	30.805212	1649.9993	0.017423	21.086
	38516.6355	0.120667	290.9293	0.003717	4.076
33° 0'	388039.3641	30.805294	1651.0447	0.017429	21.105
	38523.8755	0.120767	291.1524	0.003722	4.082
33° 1'	389887.6818	30.805377	1652.0904	0.017436	21.123
	38531.1215	0.120867	291.3757	0.003727	4.088
33° 2'	391736.0044	30.805459	1653.1366	0.017442	21.142
	38538.3735	0.120967	291.5993	0.003731	4.093
33° 3'	393584.3319	30.805542	1654.1831	0.017449	21.161
	38545.6315	0.121067	291.8232	0.003736	4.099
33° 4'	395432.6644	30.805624	1655.2300	0.017455	21.180
	38552.8955	0.121167	292.0473	0.003741	4.105
33° 5'	397281.0019	30.805707	1656.2773	0.017462	21.198
	38560.1655	0.121267	292.2718	0.003745	4.111
33° 6'	399129.3443	30.805789	1657.3250	0.017468	21.217
	38567.4415	0.121367	292.4965	0.003750	4.117
33° 7'	400977.6916	30.805872	1658.3731	0.017475	21.236
	38574.7236	0.121468	292.7215	0.003755	4.122
33° 8'	402826.0439	30.805954	1659.4216	0.017481	21.255
	38582.0116	0.121568	292.9468	0.003759	4.128
33° 9'	404674.4012	30.806037	1660.4704	0.017488	21.274
	38589.3057	0.121668	293.1723	0.003764	4.134

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°10'	406522.7634	30.806119	1661.5197	0.017494	21.293
	38596.6058	0.121769	293.3982	0.003769	4.140
33°11'	408371.1306	30.806202	1662.5693	0.017501	21.311
	38603.9120	0.121870	293.6243	0.003774	4.146
33°12'	410219.5027	30.806285	1663.6194	0.017507	21.330
	38611.2241	0.121970	293.8507	0.003778	4.152
33°13'	412067.8797	30.806367	1664.6698	0.017514	21.349
	38618.5424	0.122071	294.0774	0.003783	4.158
33°14'	413916.2618	30.806450	1665.7207	0.017520	21.368
	38625.8666	0.122172	294.3044	0.003788	4.164
33°15'	415764.6488	30.806533	1666.7719	0.017527	21.387
	38633.1970	0.122273	294.5317	0.003793	4.169
33°16'	417613.0407	30.806615	1667.8235	0.017534	21.406
	38640.5333	0.122374	294.7592	0.003797	4.175
33°17'	419461.4376	30.806698	1668.8755	0.017540	21.425
	38647.8758	0.122475	294.9871	0.003802	4.181
33°18'	421309.8395	30.806781	1669.9279	0.017547	21.444
	38655.2243	0.122576	295.2152	0.003807	4.187
33°19'	423158.2464	30.806864	1670.9807	0.017553	21.463
	38662.5789	0.122678	295.4436	0.003812	4.193
33°20'	425006.6582	30.806946	1672.0339	0.017560	21.482
	38669.9395	0.122779	295.6723	0.003816	4.199
33°21'	426855.0750	30.807029	1673.0875	0.017567	21.501
	38677.3063	0.122880	295.9013	0.003821	4.205
33°22'	428703.4967	30.807112	1674.1415	0.017573	21.520
	38684.6791	0.122982	296.1306	0.003826	4.211
33°23'	430551.9234	30.807195	1675.1959	0.017580	21.540
	38692.0580	0.123084	296.3602	0.003831	4.217
33°24'	432400.3551	30.807278	1676.2507	0.017586	21.559
	38699.4430	0.123185	296.5900	0.003836	4.223
33°25'	434248.7918	30.807361	1677.3059	0.017593	21.578
	38706.8341	0.123287	296.8201	0.003841	4.229
33°26'	436097.2334	30.807444	1678.3615	0.017600	21.597
	38714.2313	0.123389	297.0506	0.003845	4.235
33°27'	437945.6800	30.807526	1679.4175	0.017606	21.616
	38721.6347	0.123491	297.2813	0.003850	4.241
33°28'	439794.1316	30.807609	1680.4739	0.017613	21.635
	38729.0441	0.123593	297.5123	0.003855	4.247
33°29'	441642.5882	30.807692	1681.5306	0.017620	21.655
	38736.4597	0.123695	297.7436	0.003860	4.253
33°30'	443491.0497	30.807775	1682.5878	0.017626	21.674
	38743.8814	0.123797	297.9752	0.003865	4.259
33°31'	445339.5162	30.807858	1683.6454	0.017633	21.693
	38751.3092	0.123899	298.2071	0.003870	4.265

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°32'	447187.9877	30.807941	1684.7034	0.017640	21.712
	38758.7431	0.124001	298.4393	0.003875	4.272
33°33'	449036.4642	30.808025	1685.7618	0.017646	21.732
	38766.1832	0.124104	298.6718	0.003879	4.278
33°34'	450884.9457	30.808108	1686.8206	0.017653	21.751
	38773.6294	0.124206	298.9045	0.003884	4.284
33°35'	452733.4322	30.808191	1687.8797	0.017660	21.770
	38781.0818	0.124309	299.1376	0.003889	4.290
33°36'	454581.9236	30.808274	1688.9393	0.017667	21.789
	38788.5403	0.124411	299.3709	0.003894	4.296
33°37'	456430.4200	30.808357	1689.9993	0.017673	21.809
	38796.0050	0.124514	299.6046	0.003899	4.302
33°38'	458278.9215	30.808440	1691.0597	0.017680	21.828
	38803.4759	0.124617	299.8385	0.003904	4.308
33°39'	460127.4279	30.808523	1692.1205	0.017687	21.848
	38810.9529	0.124720	300.0728	0.003909	4.315
33°40'	461975.9393	30.808607	1693.1817	0.017693	21.867
	38818.4361	0.124823	300.3073	0.003914	4.321
33°41'	463824.4557	30.808690	1694.2433	0.017700	21.886
	38825.9254	0.124926	300.5421	0.003919	4.327
33°42'	465672.9771	30.808773	1695.3054	0.017707	21.906
	38833.4210	0.125029	300.7772	0.003924	4.333
33°43'	467521.5034	30.808856	1696.3678	0.017714	21.925
	38840.9227	0.125132	301.0127	0.003929	4.339
33°44'	469370.0348	30.808940	1697.4306	0.017721	21.945
	38848.4306	0.125235	301.2484	0.003934	4.346
33°45'	471218.5712	30.809023	1698.4938	0.017727	21.964
	38855.9448	0.125339	301.4844	0.003939	4.352
33°46'	473067.1126	30.809106	1699.5575	0.017734	21.984
	38863.4651	0.125442	301.7207	0.003944	4.358
33°47'	474915.6590	30.809190	1700.6215	0.017741	22.003
	38870.9916	0.125546	301.9573	0.003949	4.364
33°48'	476764.2103	30.809273	1701.6860	0.017748	22.023
	38878.5243	0.125649	302.1942	0.003954	4.371
33°49'	478612.7667	30.809356	1702.7508	0.017754	22.042
	38886.0633	0.125753	302.4314	0.003958	4.377
33°50'	480461.3281	30.809440	1703.8161	0.017761	22.062
	38893.6085	0.125857	302.6689	0.003964	4.383
33°51'	482309.8945	30.809523	1704.8818	0.017768	22.082
	38901.1599	0.125961	302.9068	0.003969	4.389
33°52'	484158.4659	30.809607	1705.9479	0.017775	22.101
	38908.7175	0.126065	303.1449	0.003974	4.396
33°53'	486007.0423	30.809690	1707.0144	0.017782	22.121
	38916.2814	0.126169	303.3833	0.003979	4.402

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°54'	487855.6237	30.809774	1708.0813	0.017789	22.141
	38923.8515	0.126273	303.6220	0.003984	4.408
33°55'	489704.2101	30.809857	1709.1486	0.017795	22.160
	38931.4279	0.126377	303.8610	0.003989	4.415
33°56'	491552.8016	30.809941	1710.2163	0.017802	22.180
	38939.0105	0.126481	304.1003	0.003994	4.421
33°57'	493401.3980	30.810024	1711.2844	0.017809	22.200
	38946.5993	0.126585	304.3399	0.003999	4.428
33°58'	495249.9995	30.810108	1712.3530	0.017816	22.219
	38954.1945	0.126690	304.5799	0.004004	4.434
33°59'	497098.6059	30.810191	1713.4220	0.017823	22.239
	38961.7959	0.126794	304.8201	0.004009	4.440
34° 0'	498947.2174	30.810275	1714.4913	0.017830	22.259
	38969.4035	0.126899	305.0606	0.004014	4.447
34° 1'	500795.8339	30.810359	1715.5611	0.017837	22.279
	38977.0175	0.127004	305.3015	0.004019	4.453
34° 2'	502644.4555	30.810442	1716.6313	0.017844	22.299
	38984.6377	0.127108	305.5426	0.004024	4.460
34° 3'	504493.0820	30.810526	1717.7019	0.017850	22.318
	38992.2642	0.127213	305.7841	0.004029	4.466
34° 4'	506341.7136	30.810610	1718.7730	0.017857	22.338
	38999.8970	0.127318	306.0258	0.004034	4.472
34° 5'	508190.3502	30.810693	1719.8444	0.017864	22.358
	39007.5361	0.127423	306.2679	0.004039	4.479
34° 6'	510038.9918	30.810777	1720.9163	0.017871	22.378
	39015.1815	0.127528	306.5102	0.004045	4.485
34° 7'	511887.6384	30.810861	1721.9885	0.017878	22.398
	39022.8332	0.127633	306.7529	0.004050	4.492
34° 8'	513736.2901	30.810945	1723.0612	0.017885	22.418
	39030.4912	0.127739	306.9959	0.004055	4.498
34° 9'	515584.9467	30.811029	1724.1343	0.017892	22.438
	39038.1555	0.127844	307.2392	0.004060	4.505
34°10'	517433.6085	30.811112	1725.2079	0.017899	22.458
	39045.8261	0.127950	307.4828	0.004065	4.511
34°11'	519282.2752	30.811196	1726.2818	0.017906	22.478
	39053.5031	0.128055	307.7267	0.004070	4.518
34°12'	521130.9470	30.811280	1727.3562	0.017913	22.498
	39061.1864	0.128161	307.9709	0.004075	4.525
34°13'	522979.6238	30.811364	1728.4309	0.017920	22.518
	39068.8760	0.128266	308.2154	0.004081	4.531
34°14'	524828.3056	30.811448	1729.5061	0.017927	22.538
	39076.5720	0.128372	308.4603	0.004086	4.538
34°15'	526676.9925	30.811532	1730.5817	0.017934	22.558
	39084.2743	0.128478	308.7054	0.004091	4.544

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°16'	528525.6844	30.811616	1731.6578	0.017941	22.578
	39091.9830	0.128584	308.9509	0.004096	4.551
34°17'	530374.3813	30.811700	1732.7342	0.017948	22.598
	39099.6981	0.128690	309.1966	0.004101	4.557
34°18'	532223.0833	30.811784	1733.8111	0.017955	22.618
	39107.4195	0.128796	309.4427	0.004107	4.564
34°19'	534071.7903	30.811868	1734.8884	0.017962	22.638
	39115.1472	0.128902	309.6891	0.004112	4.571
34°20'	535920.5024	30.811952	1735.9661	0.017969	22.658
	39122.8813	0.129008	309.9358	0.004117	4.577
34°21'	537769.2195	30.812036	1737.0442	0.017976	22.679
	39130.6219	0.129115	310.1828	0.004122	4.584
34°22'	539617.9416	30.812120	1738.1228	0.017983	22.699
	39138.3687	0.129221	310.4302	0.004127	4.591
34°23'	541466.6688	30.812204	1739.2018	0.017990	22.719
	39146.1220	0.129328	310.6778	0.004133	4.597
34°24'	543315.4010	30.812288	1740.2812	0.017997	22.739
	39153.8817	0.129434	310.9258	0.004138	4.604
34°25'	545164.1383	30.812372	1741.3610	0.018004	22.760
	39161.6478	0.129541	311.1741	0.004143	4.611
34°26'	547012.8806	30.812456	1742.4413	0.018011	22.780
	39169.4202	0.129648	311.4227	0.004149	4.617
34°27'	548861.6280	30.812540	1743.5219	0.018018	22.800
	39177.1991	0.129755	311.6716	0.004154	4.624
34°28'	550710.3804	30.812624	1744.6030	0.018025	22.820
	39184.9844	0.129862	311.9208	0.004159	4.631
34°29'	552559.1379	30.812709	1745.6846	0.018032	22.841
	39192.7761	0.129969	312.1703	0.004164	4.638
34°30'	554407.9004	30.812793	1746.7665	0.018040	22.861
	39200.5742	0.130076	312.4202	0.004170	4.644
34°31'	556256.6680	30.812877	1747.8489	0.018047	22.882
	39208.3788	0.130183	312.6704	0.004175	4.651
34°32'	558105.4406	30.812961	1748.9317	0.018054	22.902
	39216.1898	0.130291	312.9209	0.004180	4.658
34°33'	559954.2183	30.813046	1750.0149	0.018061	22.922
	39224.0072	0.130398	313.1717	0.004186	4.665
34°34'	561803.0010	30.813130	1751.0986	0.018068	22.943
	39231.8311	0.130505	313.4229	0.004191	4.672
34°35'	563651.7888	30.813214	1752.1827	0.018075	22.963
	39239.6614	0.130613	313.6743	0.004196	4.679
34°36'	565500.5816	30.813298	1753.2672	0.018082	22.984
	39247.4982	0.130721	313.9261	0.004202	4.685
34°37'	567349.3795	30.813383	1754.3521	0.018089	23.004
	39255.3414	0.130828	314.1782	0.004207	4.692

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°38'	569198.1825	30.813467	1755.4375	0.018097	23.025
	39263.1911	0.130936	314.4306	0.004212	4.699
34°39'	571046.9905	30.813552	1756.5233	0.018104	23.045
	39271.0473	0.131044	314.6834	0.004218	4.706
34°40'	572895.8036	30.813636	1757.6095	0.018111	23.066
	39278.9100	0.131152	314.9364	0.004223	4.713
34°41'	574744.6218	30.813720	1758.6962	0.018118	23.086
	39286.7791	0.131260	315.1898	0.004229	4.720
34°42'	576593.4450	30.813805	1759.7832	0.018125	23.107
	39294.6547	0.131368	315.4435	0.004234	4.727
34°43'	578442.2733	30.813889	1760.8708	0.018133	23.128
	39302.5368	0.131477	315.6976	0.004239	4.734
34°44'	580291.1067	30.813974	1761.9587	0.018140	23.148
	39310.4254	0.131585	315.9519	0.004245	4.741
34°45'	582139.9451	30.814058	1763.0471	0.018147	23.169
	39318.3205	0.131694	316.2066	0.004250	4.747
34°46'	583988.7886	30.814143	1764.1359	0.018154	23.189
	39326.2221	0.131802	316.4616	0.004256	4.754
34°47'	585837.6371	30.814227	1765.2252	0.018161	23.210
	39334.1303	0.131911	316.7170	0.004261	4.761
34°48'	587686.4908	30.814312	1766.3149	0.018169	23.231
	39342.0449	0.132019	316.9726	0.004266	4.768
34°49'	589535.3495	30.814396	1767.4050	0.018176	23.252
	39349.9661	0.132128	317.2286	0.004272	4.775
34°50'	591384.2133	30.814481	1768.4955	0.018183	23.272
	39357.8938	0.132237	317.4849	0.004277	4.782
34°51'	593233.0821	30.814566	1769.5865	0.018190	23.293
	39365.8280	0.132346	317.7416	0.004283	4.789
34°52'	595081.9560	30.814650	1770.6779	0.018198	23.314
	39373.7687	0.132455	317.9985	0.004288	4.797
34°53'	596930.8351	30.814735	1771.7698	0.018205	23.335
	39381.7160	0.132564	318.2559	0.004294	4.804
34°54'	598779.7191	30.814819	1772.8621	0.018212	23.356
	39389.6699	0.132674	318.5135	0.004299	4.811
34°55'	600628.6083	30.814904	1773.9548	0.018219	23.376
	39397.6303	0.132783	318.7714	0.004305	4.818
34°56'	602477.5026	30.814989	1775.0480	0.018227	23.397
	39405.5973	0.132892	319.0297	0.004310	4.825
34°57'	604326.4019	30.815074	1776.1416	0.018234	23.418
	39413.5708	0.133002	319.2884	0.004316	4.832
34°58'	606175.3063	30.815158	1777.2356	0.018241	23.439
	39421.5509	0.133111	319.5473	0.004321	4.839
34°59'	608024.2158	30.815243	1778.3301	0.018249	23.460
	39429.5376	0.133221	319.8066	0.004327	4.846

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35° 0'	609873.1304	30.815328	1779.4250	0.018256	23.481
	39437.5309	0.133331	320.0662	0.004332	4.853
35° 1'	611722.0500	30.815413	1780.5204	0.018263	23.502
	39445.5307	0.133441	320.3262	0.004338	4.860
35° 2'	613570.9748	30.815497	1781.6162	0.018271	23.523
	39453.5372	0.133551	320.5864	0.004344	4.868
35° 3'	615419.9046	30.815582	1782.7124	0.018278	23.544
	39461.5502	0.133661	320.8470	0.004349	4.875
35° 4'	617268.8396	30.815667	1783.8091	0.018285	23.565
	39469.5699	0.133771	321.1080	0.004355	4.882
35° 5'	619117.7796	30.815752	1784.9062	0.018293	23.586
	39477.5961	0.133881	321.3693	0.004360	4.889
35° 6'	620966.7247	30.815837	1786.0038	0.018300	23.607
	39485.6290	0.133991	321.6309	0.004366	4.896
35° 7'	622815.6749	30.815922	1787.1018	0.018307	23.628
	39493.6685	0.134102	321.8929	0.004371	4.904
35° 8'	624664.6302	30.816007	1788.2002	0.018315	23.649
	39501.7146	0.134212	322.1551	0.004377	4.911
35° 9'	626513.5906	30.816092	1789.2991	0.018322	23.671
	39509.7673	0.134323	322.4178	0.004383	4.918
35°10'	628362.5561	30.816176	1790.3985	0.018330	23.692
	39517.8267	0.134434	322.6807	0.004388	4.926
35°11'	630211.5267	30.816261	1791.4982	0.018337	23.713
	39525.8927	0.134544	322.9440	0.004394	4.933
35°12'	632060.5024	30.816346	1792.5985	0.018344	23.734
	39533.9654	0.134655	323.2077	0.004400	4.940
35°13'	633909.4832	30.816431	1793.6991	0.018352	23.755
	39542.0447	0.134766	323.4716	0.004405	4.947
35°14'	635758.4691	30.816516	1794.8002	0.018359	23.777
	39550.1307	0.134877	323.7360	0.004411	4.955
35°15'	637607.4601	30.816602	1795.9018	0.018367	23.798
	39558.2233	0.134988	324.0006	0.004417	4.962
35°16'	639456.4561	30.816687	1797.0038	0.018374	23.819
	39566.3226	0.135100	324.2656	0.004422	4.969
35°17'	641305.4573	30.816772	1798.1063	0.018382	23.840
	39574.4286	0.135211	324.5310	0.004428	4.977
35°18'	643154.4636	30.816857	1799.2092	0.018389	23.862
	39582.5412	0.135322	324.7966	0.004434	4.984
35°19'	645003.4750	30.816942	1800.3125	0.018397	23.883
	39590.6606	0.135434	325.0626	0.004439	4.992
35°20'	646852.4916	30.817027	1801.4163	0.018404	23.905
	39598.7866	0.135546	325.3290	0.004445	4.999

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
29°30'	-0.0000	30.788516	4924.2356	0.042193	2.967	
			18282.7820	0.206594	196.688	0.012335
29°31'	1847.3109	30.788593	4926.7672	0.042186	2.968	
			18295.1776	0.206662	196.886	0.012335
29°32'	3694.6265	30.788670	4929.2983	0.042179	2.969	
			18307.5773	0.206729	197.085	0.012335
29°33'	5541.9467	30.788747	4931.8290	0.042172	2.969	
			18319.9811	0.206797	197.284	0.012335
29°34'	7389.2716	30.788825	4934.3593	0.042165	2.970	
			18332.3889	0.206865	197.482	0.012335
29°35'	9236.6010	30.788902	4936.8892	0.042158	2.970	
			18344.8008	0.206933	197.682	0.012335
29°36'	11083.9352	30.788979	4939.4187	0.042151	2.971	
			18357.2168	0.207001	197.881	0.012335
29°37'	12931.2739	30.789057	4941.9477	0.042144	2.971	
			18369.6368	0.207069	198.081	0.012335
29°38'	14778.6173	30.789134	4944.4763	0.042137	2.972	
			18382.0610	0.207137	198.280	0.012334
29°39'	16625.9654	30.789212	4947.0046	0.042130	2.972	
			18394.4892	0.207206	198.480	0.012334
29°40'	18473.3181	30.789289	4949.5324	0.042123	2.973	
			18406.9216	0.207274	198.680	0.012334
29°41'	20320.6754	30.789367	4952.0597	0.042116	2.973	
			18419.3580	0.207342	198.881	0.012334
29°42'	22168.0374	30.789444	4954.5867	0.042109	2.974	
			18431.7986	0.207411	199.081	0.012334
29°43'	24015.4041	30.789522	4957.1132	0.042102	2.974	
			18444.2432	0.207479	199.282	0.012334
29°44'	25862.7754	30.789599	4959.6393	0.042095	2.975	
			18456.6920	0.207548	199.483	0.012334
29°45'	27710.1514	30.789677	4962.1650	0.042088	2.975	
			18469.1449	0.207617	199.684	0.012334
29°46'	29557.5320	30.789755	4964.6903	0.042081	2.976	
			18481.6019	0.207685	199.885	0.012334
29°47'	31404.9173	30.789832	4967.2152	0.042074	2.976	
			18494.0630	0.207754	200.087	0.012334
29°48'	33252.3072	30.789910	4969.7396	0.042067	2.977	
			18506.5283	0.207823	200.289	0.012334
29°49'	35099.7018	30.789988	4972.2636	0.042060	2.977	
			18518.9977	0.207892	200.491	0.012334
29°50'	36947.1011	30.790066	4974.7872	0.042053	2.978	
			18531.4712	0.207961	200.693	0.012334
29°51'	38794.5050	30.790143	4977.3104	0.042046	2.978	
			18543.9488	0.208030	200.895	0.012334

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0005

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
29°52'	40641.9136	30.790221	4979.8332	0.042039	2.979	
			18556.4307	0.208099	201.098	0.012334
29°53'	42489.3269	30.790299	4982.3555	0.042032	2.979	
			18568.9166	0.208169	201.300	0.012334
29°54'	44336.7448	30.790377	4984.8774	0.042025	2.980	
			18581.4067	0.208238	201.503	0.012334
29°55'	46184.1674	30.790455	4987.3989	0.042018	2.980	
			18593.9010	0.208307	201.707	0.012334
29°56'	48031.5947	30.790533	4989.9200	0.042011	2.981	
			18606.3994	0.208377	201.910	0.012334
29°57'	49879.0267	30.790611	4992.4406	0.042004	2.981	
			18618.9020	0.208446	202.113	0.012334
29°58'	51726.4633	30.790689	4994.9608	0.041997	2.982	
			18631.4088	0.208516	202.317	0.012334
29°59'	53573.9046	30.790767	4997.4806	0.041990	2.982	
			18643.9198	0.208585	202.521	0.012334
30° 0'	55421.3506	30.790845	5000.0000	0.041983	2.983	
			18656.4349	0.208655	202.725	0.012334
30° 1'	57268.8013	30.790923	5002.5190	0.041976	2.983	
			18668.9542	0.208725	202.930	0.012334
30° 2'	59116.2566	30.791001	5005.0375	0.041968	2.984	
			18681.4777	0.208795	203.134	0.012333
30° 3'	60963.7167	30.791079	5007.5556	0.041961	2.984	
			18694.0054	0.208865	203.339	0.012333
30° 4'	62811.1814	30.791157	5010.0733	0.041954	2.985	
			18706.5373	0.208935	203.544	0.012333
30° 5'	64658.6508	30.791235	5012.5905	0.041947	2.985	
			18719.0733	0.209005	203.749	0.012333
30° 6'	66506.1249	30.791313	5015.1074	0.041940	2.986	
			18731.6136	0.209075	203.955	0.012333
30° 7'	68353.6037	30.791391	5017.6238	0.041933	2.986	
			18744.1581	0.209145	204.161	0.012333
30° 8'	70201.0872	30.791470	5020.1398	0.041926	2.987	
			18756.7068	0.209215	204.366	0.012333
30° 9'	72048.5754	30.791548	5022.6553	0.041919	2.987	
			18769.2598	0.209286	204.572	0.012333
30°10'	73896.0682	30.791626	5025.1705	0.041912	2.988	
			18781.8169	0.209356	204.779	0.012333
30°11'	75743.5658	30.791705	5027.6852	0.041905	2.988	
			18794.3783	0.209427	204.985	0.012333
30°12'	77591.0681	30.791783	5030.1995	0.041898	2.988	
			18806.9439	0.209497	205.192	0.012333
30°13'	79438.5751	30.791861	5032.7133	0.041891	2.989	
			18819.5137	0.209568	205.399	0.012333

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0005

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30°14'	81286.0867	30.791940	5035.2268	0.041883	2.989	
			18832.0878	0.209639	205.606	0.012333
30°15'	83133.6031	30.792018	5037.7398	0.041876	2.990	
			18844.6661	0.209709	205.813	0.012333
30°16'	84981.1242	30.792096	5040.2524	0.041869	2.990	
			18857.2487	0.209780	206.021	0.012333
30°17'	86828.6500	30.792175	5042.7645	0.041862	2.991	
			18869.8355	0.209851	206.228	0.012333
30°18'	88676.1805	30.792253	5045.2762	0.041855	2.991	
			18882.4266	0.209922	206.436	0.012333
30°19'	90523.7157	30.792332	5047.7875	0.041848	2.992	
			18895.0219	0.209993	206.644	0.012333
30°20'	92371.2556	30.792410	5050.2984	0.041841	2.992	
			18907.6215	0.210064	206.853	0.012333
30°21'	94218.8002	30.792489	5052.8089	0.041834	2.993	
			18920.2254	0.210136	207.061	0.012333
30°22'	96066.3496	30.792568	5055.3189	0.041827	2.993	
			18932.8335	0.210207	207.270	0.012333
30°23'	97913.9036	30.792646	5057.8285	0.041819	2.994	
			18945.4459	0.210278	207.479	0.012333
30°24'	99761.4624	30.792725	5060.3376	0.041812	2.994	
			18958.0626	0.210350	207.688	0.012333
30°25'	101609.0259	30.792804	5062.8464	0.041805	2.994	
			18970.6836	0.210421	207.898	0.012333
30°26'	103456.5941	30.792882	5065.3547	0.041798	2.995	
			18983.3089	0.210493	208.107	0.012332
30°27'	105304.1670	30.792961	5067.8626	0.041791	2.995	
			18995.9385	0.210564	208.317	0.012332
30°28'	107151.7447	30.793040	5070.3700	0.041784	2.996	
			19008.5723	0.210636	208.527	0.012332
30°29'	108999.3271	30.793119	5072.8770	0.041777	2.996	
			19021.2105	0.210708	208.738	0.012332
30°30'	110846.9142	30.793197	5075.3836	0.041769	2.997	
			19033.8530	0.210780	208.948	0.012332
30°31'	112694.5060	30.793276	5077.8898	0.041762	2.997	
			19046.4998	0.210852	209.159	0.012332
30°32'	114542.1026	30.793355	5080.3955	0.041755	2.997	
			19059.1509	0.210924	209.370	0.012332
30°33'	116389.7039	30.793434	5082.9008	0.041748	2.998	
			19071.8063	0.210996	209.581	0.012332
30°34'	118237.3100	30.793513	5085.4057	0.041741	2.998	
			19084.4661	0.211068	209.792	0.012332
30°35'	120084.9207	30.793592	5087.9101	0.041734	2.999	
			19097.1301	0.211140	210.004	0.012332

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0005

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30°36'	121932.5362	30.793671	5090.4142	0.041726	2.999	
			19109.7985	0.211213	210.216	0.012332
30°37'	123780.1565	30.793750	5092.9177	0.041719	3.000	
			19122.4713	0.211285	210.428	0.012332
30°38'	125627.7815	30.793829	5095.4209	0.041712	3.000	
			19135.1484	0.211357	210.640	0.012332
30°39'	127475.4112	30.793908	5097.9236	0.041705	3.000	
			19147.8298	0.211430	210.852	0.012332
30°40'	129323.0456	30.793987	5100.4259	0.041698	3.001	
			19160.5156	0.211503	211.065	0.012332
30°41'	131170.6848	30.794066	5102.9278	0.041690	3.001	
			19173.2058	0.211575	211.278	0.012332
30°42'	133018.3288	30.794145	5105.4292	0.041683	3.002	
			19185.9003	0.211648	211.491	0.012332
30°43'	134865.9775	30.794224	5107.9302	0.041676	3.002	
			19198.5992	0.211721	211.704	0.012332
30°44'	136713.6310	30.794303	5110.4307	0.041669	3.003	
			19211.3024	0.211794	211.918	0.012332
30°45'	138561.2891	30.794382	5112.9309	0.041662	3.003	
			19224.0100	0.211867	212.131	0.012332
30°46'	140408.9521	30.794462	5115.4306	0.041654	3.003	
			19236.7220	0.211940	212.345	0.012332
30°47'	142256.6198	30.794541	5117.9298	0.041647	3.004	
			19249.4384	0.212013	212.560	0.012332
30°48'	144104.2923	30.794620	5120.4286	0.041640	3.004	
			19262.1592	0.212086	212.774	0.012332
30°49'	145951.9695	30.794699	5122.9270	0.041633	3.005	
			19274.8843	0.212159	212.989	0.012331
30°50'	147799.6514	30.794779	5125.4250	0.041625	3.005	
			19287.6139	0.212233	213.203	0.012331
30°51'	149647.3382	30.794858	5127.9225	0.041618	3.005	
			19300.3478	0.212306	213.419	0.012331
30°52'	151495.0297	30.794938	5130.4196	0.041611	3.006	
			19313.0862	0.212379	213.634	0.012331
30°53'	153342.7259	30.795017	5132.9163	0.041604	3.006	
			19325.8289	0.212453	213.849	0.012331
30°54'	155190.4269	30.795096	5135.4125	0.041597	3.007	
			19338.5761	0.212527	214.065	0.012331
30°55'	157038.1327	30.795176	5137.9083	0.041589	3.007	
			19351.3277	0.212600	214.281	0.012331
30°56'	158885.8432	30.795255	5140.4037	0.041582	3.007	
			19364.0837	0.212674	214.497	0.012331
30°57'	160733.5586	30.795335	5142.8986	0.041575	3.008	
			19376.8442	0.212748	214.714	0.012331

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
30°58'	162581.2786	30.795414	5145.3931	0.041568	3.008	
			19389.6090	0.212822	214.930	0.012331
30°59'	164429.0035	30.795494	5147.8871	0.041560	3.009	
			19402.3784	0.212896	215.147	0.012331
31° 0'	166276.7331	30.795573	5150.3807	0.041553	3.009	
			19415.1521	0.212970	215.364	0.012331
31° 1'	168124.4675	30.795653	5152.8739	0.041546	3.009	
			19427.9303	0.213044	215.582	0.012331
31° 2'	169972.2067	30.795733	5155.3667	0.041538	3.010	
			19440.7130	0.213118	215.799	0.012331
31° 3'	171819.9507	30.795812	5157.8590	0.041531	3.010	
			19453.5000	0.213193	216.017	0.012331
31° 4'	173667.6994	30.795892	5160.3509	0.041524	3.011	
			19466.2916	0.213267	216.235	0.012331
31° 5'	175515.4529	30.795972	5162.8423	0.041517	3.011	
			19479.0876	0.213341	216.453	0.012331
31° 6'	177363.2112	30.796051	5165.3333	0.041509	3.011	
			19491.8881	0.213416	216.671	0.012331
31° 7'	179210.9743	30.796131	5167.8239	0.041502	3.012	
			19504.6931	0.213491	216.890	0.012331
31° 8'	181058.7421	30.796211	5170.3140	0.041495	3.012	
			19517.5025	0.213565	217.109	0.012331
31° 9'	182906.5148	30.796291	5172.8037	0.041487	3.012	
			19530.3164	0.213640	217.328	0.012331
31°10'	184754.2922	30.796370	5175.2929	0.041480	3.013	
			19543.1348	0.213715	217.547	0.012331
31°11'	186602.0744	30.796450	5177.7817	0.041473	3.013	
			19555.9577	0.213790	217.767	0.012331
31°12'	188449.8614	30.796530	5180.2701	0.041466	3.014	
			19568.7851	0.213865	217.987	0.012331
31°13'	190297.6532	30.796610	5182.7580	0.041458	3.014	
			19581.6170	0.213940	218.207	0.012330
31°14'	192145.4498	30.796690	5185.2455	0.041451	3.014	
			19594.4534	0.214015	218.427	0.012330
31°15'	193993.2512	30.796770	5187.7326	0.041444	3.015	
			19607.2943	0.214090	218.648	0.012330
31°16'	195841.0574	30.796850	5190.2192	0.041436	3.015	
			19620.1397	0.214165	218.868	0.012330
31°17'	197688.8684	30.796930	5192.7054	0.041429	3.015	
			19632.9896	0.214241	219.089	0.012330
31°18'	199536.6842	30.797010	5195.1911	0.041422	3.016	
			19645.8440	0.214316	219.310	0.012330
31°19'	201384.5048	30.797090	5197.6764	0.041414	3.016	
			19658.7030	0.214392	219.532	0.012330

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°20'	203232.3302	30.797170	5200.1613	0.041407	3.016	
			19671.5665	0.214467	219.753	0.012330
31°21'	205080.1603	30.797250	5202.6457	0.041400	3.017	
			19684.4346	0.214543	219.975	0.012330
31°22'	206927.9953	30.797330	5205.1297	0.041392	3.017	
			19697.3071	0.214619	220.197	0.012330
31°23'	208775.8351	30.797410	5207.6132	0.041385	3.018	
			19710.1843	0.214695	220.420	0.012330
31°24'	210623.6797	30.797490	5210.0963	0.041378	3.018	
			19723.0659	0.214770	220.642	0.012330
31°25'	212471.5292	30.797570	5212.5790	0.041370	3.018	
			19735.9522	0.214846	220.865	0.012330
31°26'	214319.3834	30.797651	5215.0612	0.041363	3.019	
			19748.8429	0.214922	221.088	0.012330
31°27'	216167.2424	30.797731	5217.5430	0.041356	3.019	
			19761.7383	0.214999	221.311	0.012330
31°28'	218015.1063	30.797811	5220.0243	0.041348	3.019	
			19774.6382	0.215075	221.535	0.012330
31°29'	219862.9750	30.797891	5222.5052	0.041341	3.020	
			19787.5427	0.215151	221.758	0.012330
31°30'	221710.8485	30.797972	5224.9856	0.041333	3.020	
			19800.4518	0.215227	221.982	0.012330
31°31'	223558.7268	30.798052	5227.4657	0.041326	3.020	
			19813.3654	0.215304	222.207	0.012330
31°32'	225406.6099	30.798132	5229.9452	0.041319	3.021	
			19826.2837	0.215380	222.431	0.012330
31°33'	227254.4978	30.798213	5232.4243	0.041311	3.021	
			19839.2065	0.215457	222.656	0.012330
31°34'	229102.3906	30.798293	5234.9030	0.041304	3.021	
			19852.1339	0.215534	222.881	0.012330
31°35'	230950.2882	30.798374	5237.3813	0.041297	3.022	
			19865.0659	0.215610	223.106	0.012330
31°36'	232798.1906	30.798454	5239.8591	0.041289	3.022	
			19878.0025	0.215687	223.331	0.012329
31°37'	234646.0979	30.798535	5242.3364	0.041282	3.022	
			19890.9438	0.215764	223.557	0.012329
31°38'	236494.0099	30.798615	5244.8133	0.041274	3.023	
			19903.8896	0.215841	223.783	0.012329
31°39'	238341.9268	30.798696	5247.2898	0.041267	3.023	
			19916.8401	0.215918	224.009	0.012329
31°40'	240189.8486	30.798776	5249.7658	0.041260	3.023	
			19929.7952	0.215995	224.235	0.012329
31°41'	242037.7751	30.798857	5252.2414	0.041252	3.024	
			19942.7549	0.216073	224.462	0.012329

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°42'	243885.7065	30.798937	5254.7165	0.041245	3.024	
			19955.7193	0.216150	224.688	0.012329
31°43'	245733.6428	30.799018	5257.1912	0.041237	3.024	
			19968.6882	0.216227	224.915	0.012329
31°44'	247581.5838	30.799099	5259.6654	0.041230	3.025	
			19981.6619	0.216305	225.143	0.012329
31°45'	249429.5298	30.799179	5262.1392	0.041223	3.025	
			19994.6402	0.216382	225.370	0.012329
31°46'	251277.4805	30.799260	5264.6126	0.041215	3.025	
			20007.6231	0.216460	225.598	0.012329
31°47'	253125.4361	30.799341	5267.0855	0.041208	3.026	
			20020.6107	0.216537	225.826	0.012329
31°48'	254973.3965	30.799421	5269.5580	0.041200	3.026	
			20033.6029	0.216615	226.054	0.012329
31°49'	256821.3618	30.799502	5272.0300	0.041193	3.026	
			20046.5998	0.216693	226.283	0.012329
31°50'	258669.3319	30.799583	5274.5015	0.041185	3.026	
			20059.6014	0.216771	226.511	0.012329
31°51'	260517.3069	30.799664	5276.9727	0.041178	3.027	
			20072.6077	0.216849	226.740	0.012329
31°52'	262365.2867	30.799744	5279.4433	0.041170	3.027	
			20085.6186	0.216927	226.970	0.012329
31°53'	264213.2714	30.799825	5281.9136	0.041163	3.027	
			20098.6343	0.217005	227.199	0.012329
31°54'	266061.2609	30.799906	5284.3833	0.041156	3.028	
			20111.6546	0.217083	227.429	0.012329
31°55'	267909.2553	30.799987	5286.8527	0.041148	3.028	
			20124.6796	0.217162	227.659	0.012329
31°56'	269757.2545	30.800068	5289.3216	0.041141	3.028	
			20137.7093	0.217240	227.889	0.012329
31°57'	271605.2586	30.800149	5291.7900	0.041133	3.029	
			20150.7437	0.217319	228.119	0.012329
31°58'	273453.2675	30.800230	5294.2580	0.041126	3.029	
			20163.7828	0.217397	228.350	0.012329
31°59'	275301.2813	30.800311	5296.7255	0.041118	3.029	
			20176.8267	0.217476	228.581	0.012328
32° 0'	277149.3000	30.800392	5299.1926	0.041111	3.029	
			20189.8752	0.217555	228.812	0.012328
32° 1'	278997.3235	30.800473	5301.6593	0.041103	3.030	
			20202.9285	0.217633	229.043	0.012328
32° 2'	280845.3519	30.800554	5304.1255	0.041096	3.030	
			20215.9865	0.217712	229.275	0.012328
32° 3'	282693.3851	30.800635	5306.5912	0.041088	3.030	
			20229.0492	0.217791	229.507	0.012328

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32° 4'	284541.4232	30.800716	5309.0565	0.041081	3.031	
			20242.1167	0.217870	229.739	0.012328
32° 5'	286389.4662	30.800797	5311.5214	0.041073	3.031	
			20255.1889	0.217949	229.971	0.012328
32° 6'	288237.5140	30.800878	5313.9858	0.041066	3.031	
			20268.2659	0.218029	230.204	0.012328
32° 7'	290085.5667	30.800960	5316.4497	0.041058	3.031	
			20281.3476	0.218108	230.437	0.012328
32° 8'	291933.6243	30.801041	5318.9133	0.041051	3.032	
			20294.4341	0.218187	230.670	0.012328
32° 9'	293781.6868	30.801122	5321.3763	0.041043	3.032	
			20307.5253	0.218267	230.903	0.012328
32°10'	295629.7541	30.801203	5323.8389	0.041036	3.032	
			20320.6213	0.218346	231.137	0.012328
32°11'	297477.8263	30.801285	5326.3011	0.041028	3.033	
			20333.7221	0.218426	231.371	0.012328
32°12'	299325.9034	30.801366	5328.7628	0.041021	3.033	
			20346.8276	0.218505	231.605	0.012328
32°13'	301173.9853	30.801447	5331.2240	0.041013	3.033	
			20359.9379	0.218585	231.839	0.012328
32°14'	303022.0722	30.801529	5333.6848	0.041006	3.033	
			20373.0530	0.218665	232.074	0.012328
32°15'	304870.1639	30.801610	5336.1452	0.040998	3.034	
			20386.1729	0.218745	232.309	0.012328
32°16'	306718.2605	30.801691	5338.6051	0.040991	3.034	
			20399.2976	0.218825	232.544	0.012328
32°17'	308566.3619	30.801773	5341.0645	0.040983	3.034	
			20412.4271	0.218905	232.779	0.012328
32°18'	310414.4683	30.801854	5343.5235	0.040976	3.035	
			20425.5614	0.218985	233.015	0.012328
32°19'	312262.5795	30.801936	5345.9820	0.040968	3.035	
			20438.7005	0.219065	233.251	0.012328
32°20'	314110.6957	30.802017	5348.4401	0.040961	3.035	
			20451.8445	0.219146	233.487	0.012328
32°21'	315958.8167	30.802099	5350.8978	0.040953	3.035	
			20464.9932	0.219226	233.723	0.012328
32°22'	317806.9426	30.802180	5353.3549	0.040946	3.036	
			20478.1468	0.219307	233.960	0.012327
32°23'	319655.0734	30.802262	5355.8117	0.040938	3.036	
			20491.3052	0.219387	234.197	0.012327
32°24'	321503.2091	30.802343	5358.2679	0.040930	3.036	
			20504.4684	0.219468	234.434	0.012327
32°25'	323351.3497	30.802425	5360.7238	0.040923	3.036	
			20517.6365	0.219549	234.671	0.012327

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°26'	325199.4952	30.802506	5363.1791	0.040915	3.037	
			20530.8094	0.219629	234.909	0.012327
32°27'	327047.6456	30.802588	5365.6341	0.040908	3.037	
			20543.9872	0.219710	235.147	0.012327
32°28'	328895.8009	30.802670	5368.0885	0.040900	3.037	
			20557.1698	0.219791	235.385	0.012327
32°29'	330743.9611	30.802751	5370.5425	0.040893	3.037	
			20570.3573	0.219872	235.624	0.012327
32°30'	332592.1261	30.802833	5372.9961	0.040885	3.038	
			20583.5496	0.219954	235.862	0.012327
32°31'	334440.2961	30.802915	5375.4492	0.040877	3.038	
			20596.7468	0.220035	236.101	0.012327
32°32'	336288.4710	30.802997	5377.9018	0.040870	3.038	
			20609.9489	0.220116	236.340	0.012327
32°33'	338136.6508	30.803078	5380.3540	0.040862	3.038	
			20623.1559	0.220197	236.580	0.012327
32°34'	339984.8355	30.803160	5382.8057	0.040855	3.039	
			20636.3677	0.220279	236.820	0.012327
32°35'	341833.0251	30.803242	5385.2570	0.040847	3.039	
			20649.5845	0.220361	237.060	0.012327
32°36'	343681.2196	30.803324	5387.7079	0.040839	3.039	
			20662.8061	0.220442	237.300	0.012327
32°37'	345529.4190	30.803406	5390.1582	0.040832	3.039	
			20676.0326	0.220524	237.540	0.012327
32°38'	347377.6234	30.803487	5392.6081	0.040824	3.039	
			20689.2641	0.220606	237.781	0.012327
32°39'	349225.8326	30.803569	5395.0576	0.040817	3.040	
			20702.5004	0.220688	238.022	0.012327
32°40'	351074.0468	30.803651	5397.5066	0.040809	3.040	
			20715.7417	0.220770	238.263	0.012327
32°41'	352922.2659	30.803733	5399.9551	0.040801	3.040	
			20728.9879	0.220852	238.505	0.012327
32°42'	354770.4899	30.803815	5402.4032	0.040794	3.040	
			20742.2390	0.220934	238.747	0.012327
32°43'	356618.7188	30.803897	5404.8508	0.040786	3.041	
			20755.4950	0.221016	238.989	0.012327
32°44'	358466.9526	30.803979	5407.2980	0.040779	3.041	
			20768.7559	0.221098	239.231	0.012327
32°45'	360315.1914	30.804061	5409.7447	0.040771	3.041	
			20782.0218	0.221181	239.473	0.012326
32°46'	362163.4351	30.804143	5412.1910	0.040763	3.041	
			20795.2927	0.221263	239.716	0.012326
32°47'	364011.6837	30.804225	5414.6368	0.040756	3.041	
			20808.5685	0.221346	239.959	0.012326

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0006	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°48'	365859.9372	30.804308	5417.0821	0.040748	3.042	
			20821.8492	0.221428	240.203	0.012326
32°49'	367708.1956	30.804390	5419.5270	0.040740	3.042	
			20835.1349	0.221511	240.446	0.012326
32°50'	369556.4590	30.804472	5421.9714	0.040733	3.042	
			20848.4256	0.221594	240.690	0.012326
32°51'	371404.7273	30.804554	5424.4154	0.040725	3.042	
			20861.7212	0.221677	240.934	0.012326
32°52'	373253.0006	30.804636	5426.8589	0.040717	3.043	
			20875.0218	0.221760	241.179	0.012326
32°53'	375101.2787	30.804718	5429.3019	0.040710	3.043	
			20888.3274	0.221843	241.423	0.012326
32°54'	376949.5618	30.804801	5431.7445	0.040702	3.043	
			20901.6380	0.221926	241.668	0.012326
32°55'	378797.8499	30.804883	5434.1866	0.040694	3.043	
			20914.9536	0.222009	241.914	0.012326
32°56'	380646.1428	30.804965	5436.6283	0.040687	3.043	
			20928.2741	0.222093	242.159	0.012326
32°57'	382494.4407	30.805047	5439.0695	0.040679	3.044	
			20941.5997	0.222176	242.405	0.012326
32°58'	384342.7436	30.805130	5441.5102	0.040671	3.044	
			20954.9302	0.222259	242.651	0.012326
32°59'	386191.0514	30.805212	5443.9505	0.040664	3.044	
			20968.2658	0.222343	242.897	0.012326
33° 0'	388039.3641	30.805294	5446.3904	0.040656	3.044	
			20981.6064	0.222427	243.144	0.012326
33° 1'	389887.6818	30.805377	5448.8297	0.040648	3.044	
			20994.9520	0.222510	243.390	0.012326
33° 2'	391736.0044	30.805459	5451.2686	0.040641	3.045	
			21008.3026	0.222594	243.638	0.012326
33° 3'	393584.3319	30.805542	5453.7071	0.040633	3.045	
			21021.6583	0.222678	243.885	0.012326
33° 4'	395432.6644	30.805624	5456.1450	0.040625	3.045	
			21035.0189	0.222762	244.133	0.012326
33° 5'	397281.0019	30.805707	5458.5826	0.040618	3.045	
			21048.3847	0.222846	244.380	0.012326
33° 6'	399129.3443	30.805789	5461.0196	0.040610	3.045	
			21061.7555	0.222930	244.629	0.012326
33° 7'	400977.6916	30.805872	5463.4562	0.040602	3.046	
			21075.1313	0.223015	244.877	0.012326
33° 8'	402826.0439	30.805954	5465.8923	0.040594	3.046	
			21088.5122	0.223099	245.126	0.012325
33° 9'	404674.4012	30.806037	5468.3280	0.040587	3.046	
			21101.8981	0.223183	245.375	0.012325

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°10'	406522.7634	30.806119	5470.7632	0.040579	3.046	
			21115.2891	0.223268	245.624	0.012325
33°11'	408371.1306	30.806202	5473.1980	0.040571	3.046	
			21128.6852	0.223353	245.873	0.012325
33°12'	410219.5027	30.806285	5475.6322	0.040564	3.046	
			21142.0864	0.223437	246.123	0.012325
33°13'	412067.8797	30.806367	5478.0661	0.040556	3.047	
			21155.4926	0.223522	246.373	0.012325
33°14'	413916.2618	30.806450	5480.4994	0.040548	3.047	
			21168.9039	0.223607	246.624	0.012325
33°15'	415764.6488	30.806533	5482.9323	0.040540	3.047	
			21182.3203	0.223692	246.874	0.012325
33°16'	417613.0407	30.806615	5485.3647	0.040533	3.047	
			21195.7418	0.223777	247.125	0.012325
33°17'	419461.4376	30.806698	5487.7967	0.040525	3.047	
			21209.1685	0.223862	247.376	0.012325
33°18'	421309.8395	30.806781	5490.2282	0.040517	3.047	
			21222.6002	0.223947	247.628	0.012325
33°19'	423158.2464	30.806864	5492.6592	0.040509	3.048	
			21236.0370	0.224033	247.879	0.012325
33°20'	425006.6582	30.806946	5495.0898	0.040502	3.048	
			21249.4790	0.224118	248.131	0.012325
33°21'	426855.0750	30.807029	5497.5199	0.040494	3.048	
			21262.9260	0.224203	248.384	0.012325
33°22'	428703.4967	30.807112	5499.9495	0.040486	3.048	
			21276.3782	0.224289	248.636	0.012325
33°23'	430551.9234	30.807195	5502.3787	0.040478	3.048	
			21289.8356	0.224375	248.889	0.012325
33°24'	432400.3551	30.807278	5504.8074	0.040471	3.048	
			21303.2980	0.224460	249.142	0.012325
33°25'	434248.7918	30.807361	5507.2356	0.040463	3.049	
			21316.7657	0.224546	249.396	0.012325
33°26'	436097.2334	30.807444	5509.6634	0.040455	3.049	
			21330.2384	0.224632	249.649	0.012325
33°27'	437945.6800	30.807526	5512.0907	0.040447	3.049	
			21343.7163	0.224718	249.903	0.012325
33°28'	439794.1316	30.807609	5514.5176	0.040440	3.049	
			21357.1994	0.224804	250.157	0.012325
33°29'	441642.5882	30.807692	5516.9439	0.040432	3.049	
			21370.6877	0.224890	250.412	0.012325
33°30'	443491.0497	30.807775	5519.3699	0.040424	3.049	
			21384.1811	0.224976	250.667	0.012325
33°31'	445339.5162	30.807858	5521.7953	0.040416	3.050	
			21397.6797	0.225063	250.922	0.012324

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0006

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°32'	447187.9877	30.807941	5524.2203	0.040408	3.050	
			21411.1834	0.225149	251.177	0.012324
33°33'	449036.4642	30.808025	5526.6448	0.040401	3.050	
			21424.6924	0.225236	251.433	0.012324
33°34'	450884.9457	30.808108	5529.0688	0.040393	3.050	
			21438.2065	0.225322	251.689	0.012324
33°35'	452733.4322	30.808191	5531.4924	0.040385	3.050	
			21451.7259	0.225409	251.945	0.012324
33°36'	454581.9236	30.808274	5533.9155	0.040377	3.050	
			21465.2504	0.225496	252.201	0.012324
33°37'	456430.4200	30.808357	5536.3381	0.040369	3.050	
			21478.7802	0.225583	252.458	0.012324
33°38'	458278.9215	30.808440	5538.7603	0.040362	3.051	
			21492.3151	0.225670	252.715	0.012324
33°39'	460127.4279	30.808523	5541.1820	0.040354	3.051	
			21505.8553	0.225757	252.972	0.012324
33°40'	461975.9393	30.808607	5543.6032	0.040346	3.051	
			21519.4007	0.225844	253.230	0.012324
33°41'	463824.4557	30.808690	5546.0240	0.040338	3.051	
			21532.9514	0.225931	253.488	0.012324
33°42'	465672.9771	30.808773	5548.4443	0.040330	3.051	
			21546.5072	0.226018	253.746	0.012324
33°43'	467521.5034	30.808856	5550.8641	0.040323	3.051	
			21560.0683	0.226106	254.004	0.012324
33°44'	469370.0348	30.808940	5553.2834	0.040315	3.051	
			21573.6347	0.226193	254.263	0.012324
33°45'	471218.5712	30.809023	5555.7023	0.040307	3.051	
			21587.2063	0.226281	254.522	0.012324
33°46'	473067.1126	30.809106	5558.1207	0.040299	3.052	
			21600.7831	0.226369	254.781	0.012324
33°47'	474915.6590	30.809190	5560.5387	0.040291	3.052	
			21614.3653	0.226456	255.041	0.012324
33°48'	476764.2103	30.809273	5562.9562	0.040283	3.052	
			21627.9526	0.226544	255.301	0.012324
33°49'	478612.7667	30.809356	5565.3732	0.040275	3.052	
			21641.5453	0.226632	255.561	0.012324
33°50'	480461.3281	30.809440	5567.7897	0.040268	3.052	
			21655.1432	0.226720	255.822	0.012324
33°51'	482309.8945	30.809523	5570.2057	0.040260	3.052	
			21668.7464	0.226808	256.082	0.012324
33°52'	484158.4659	30.809607	5572.6213	0.040252	3.052	
			21682.3549	0.226897	256.343	0.012324
33°53'	486007.0423	30.809690	5575.0364	0.040244	3.052	
			21695.9687	0.226985	256.605	0.012323

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°54'	487855.6237	30.809774	5577.4511	0.040236	3.053	
			21709.5878	0.227073	256.866	0.012323
33°55'	489704.2101	30.809857	5579.8653	0.040228	3.053	
			21723.2122	0.227162	257.128	0.012323
33°56'	491552.8016	30.809941	5582.2790	0.040220	3.053	
			21736.8419	0.227250	257.391	0.012323
33°57'	493401.3980	30.810024	5584.6922	0.040213	3.053	
			21750.4769	0.227339	257.653	0.012323
33°58'	495249.9995	30.810108	5587.1049	0.040205	3.053	
			21764.1172	0.227428	257.916	0.012323
33°59'	497098.6059	30.810191	5589.5172	0.040197	3.053	
			21777.7629	0.227517	258.179	0.012323
34° 0'	498947.2174	30.810275	5591.9290	0.040189	3.053	
			21791.4139	0.227605	258.442	0.012323
34° 1'	500795.8339	30.810359	5594.3404	0.040181	3.053	
			21805.0702	0.227695	258.706	0.012323
34° 2'	502644.4555	30.810442	5596.7512	0.040173	3.053	
			21818.7319	0.227784	258.970	0.012323
34° 3'	504493.0820	30.810526	5599.1616	0.040165	3.053	
			21832.3989	0.227873	259.234	0.012323
34° 4'	506341.7136	30.810610	5601.5715	0.040157	3.054	
			21846.0713	0.227962	259.499	0.012323
34° 5'	508190.3502	30.810693	5603.9810	0.040149	3.054	
			21859.7490	0.228052	259.764	0.012323
34° 6'	510038.9918	30.810777	5606.3899	0.040142	3.054	
			21873.4321	0.228141	260.029	0.012323
34° 7'	511887.6384	30.810861	5608.7984	0.040134	3.054	
			21887.1206	0.228231	260.294	0.012323
34° 8'	513736.2901	30.810945	5611.2065	0.040126	3.054	
			21900.8144	0.228320	260.560	0.012323
34° 9'	515584.9467	30.811029	5613.6140	0.040118	3.054	
			21914.5136	0.228410	260.826	0.012323
34°10'	517433.6085	30.811112	5616.0211	0.040110	3.054	
			21928.2182	0.228500	261.092	0.012323
34°11'	519282.2752	30.811196	5618.4277	0.040102	3.054	
			21941.9282	0.228590	261.359	0.012323
34°12'	521130.9470	30.811280	5620.8338	0.040094	3.054	
			21955.6436	0.228680	261.626	0.012323
34°13'	522979.6238	30.811364	5623.2394	0.040086	3.054	
			21969.3644	0.228770	261.893	0.012323
34°14'	524828.3056	30.811448	5625.6446	0.040078	3.054	
			21983.0906	0.228860	262.161	0.012323
34°15'	526676.9925	30.811532	5628.0493	0.040070	3.055	
			21996.8222	0.228951	262.429	0.012323

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°16'	528525.6844	30.811616	5630.4535	0.040062	3.055	
			22010.5592	0.229041	262.697	0.012322
34°17'	530374.3813	30.811700	5632.8572	0.040054	3.055	
			22024.3017	0.229131	262.965	0.012322
34°18'	532223.0833	30.811784	5635.2605	0.040046	3.055	
			22038.0496	0.229222	263.234	0.012322
34°19'	534071.7903	30.811868	5637.6633	0.040038	3.055	
			22051.8029	0.229313	263.503	0.012322
34°20'	535920.5024	30.811952	5640.0656	0.040030	3.055	
			22065.5616	0.229403	263.772	0.012322
34°21'	537769.2195	30.812036	5642.4674	0.040023	3.055	
			22079.3259	0.229494	264.042	0.012322
34°22'	539617.9416	30.812120	5644.8688	0.040015	3.055	
			22093.0955	0.229585	264.312	0.012322
34°23'	541466.6688	30.812204	5647.2696	0.040007	3.055	
			22106.8706	0.229676	264.582	0.012322
34°24'	543315.4010	30.812288	5649.6700	0.039999	3.055	
			22120.6512	0.229767	264.853	0.012322
34°25'	545164.1383	30.812372	5652.0700	0.039991	3.055	
			22134.4373	0.229859	265.124	0.012322
34°26'	547012.8806	30.812456	5654.4694	0.039983	3.055	
			22148.2288	0.229950	265.395	0.012322
34°27'	548861.6280	30.812540	5656.8684	0.039975	3.055	
			22162.0258	0.230041	265.666	0.012322
34°28'	550710.3804	30.812624	5659.2668	0.039967	3.055	
			22175.8283	0.230133	265.938	0.012322
34°29'	552559.1379	30.812709	5661.6648	0.039959	3.055	
			22189.6363	0.230225	266.210	0.012322
34°30'	554407.9004	30.812793	5664.0624	0.039951	3.056	
			22203.4497	0.230316	266.483	0.012322
34°31'	556256.6680	30.812877	5666.4594	0.039943	3.056	
			22217.2687	0.230408	266.755	0.012322
34°32'	558105.4406	30.812961	5668.8560	0.039935	3.056	
			22231.0932	0.230500	267.029	0.012322
34°33'	559954.2183	30.813046	5671.2521	0.039927	3.056	
			22244.9232	0.230592	267.302	0.012322
34°34'	561803.0010	30.813130	5673.6477	0.039919	3.056	
			22258.7587	0.230684	267.575	0.012322
34°35'	563651.7888	30.813214	5676.0428	0.039911	3.056	
			22272.5998	0.230776	267.849	0.012322
34°36'	565500.5816	30.813298	5678.4375	0.039903	3.056	
			22286.4464	0.230869	268.124	0.012322
34°37'	567349.3795	30.813383	5680.8316	0.039895	3.056	
			22300.2985	0.230961	268.398	0.012322

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°38'	569198.1825	30.813467	5683.2253	0.039887	3.056	
			22314.1561	0.231053	268.673	0.012321
34°39'	571046.9905	30.813552	5685.6185	0.039879	3.056	
			22328.0193	0.231146	268.948	0.012321
34°40'	572895.8036	30.813636	5688.0112	0.039871	3.056	
			22341.8881	0.231239	269.224	0.012321
34°41'	574744.6218	30.813720	5690.4035	0.039863	3.056	
			22355.7624	0.231331	269.500	0.012321
34°42'	576593.4450	30.813805	5692.7952	0.039855	3.056	
			22369.6423	0.231424	269.776	0.012321
34°43'	578442.2733	30.813889	5695.1865	0.039847	3.056	
			22383.5278	0.231517	270.052	0.012321
34°44'	580291.1067	30.813974	5697.5773	0.039839	3.056	
			22397.4188	0.231610	270.329	0.012321
34°45'	582139.9451	30.814058	5699.9676	0.039831	3.056	
			22411.3154	0.231703	270.606	0.012321
34°46'	583988.7886	30.814143	5702.3575	0.039823	3.056	
			22425.2176	0.231797	270.883	0.012321
34°47'	585837.6371	30.814227	5704.7468	0.039814	3.056	
			22439.1254	0.231890	271.161	0.012321
34°48'	587686.4908	30.814312	5707.1357	0.039806	3.056	
			22453.0388	0.231983	271.439	0.012321
34°49'	589535.3495	30.814396	5709.5241	0.039798	3.056	
			22466.9578	0.232077	271.718	0.012321
34°50'	591384.2133	30.814481	5711.9120	0.039790	3.056	
			22480.8824	0.232170	271.996	0.012321
34°51'	593233.0821	30.814566	5714.2994	0.039782	3.056	
			22494.8126	0.232264	272.275	0.012321
34°52'	595081.9560	30.814650	5716.6863	0.039774	3.056	
			22508.7485	0.232358	272.554	0.012321
34°53'	596930.8351	30.814735	5719.0728	0.039766	3.056	
			22522.6900	0.232452	272.834	0.012321
34°54'	598779.7191	30.814819	5721.4587	0.039758	3.056	
			22536.6371	0.232546	273.114	0.012321
34°55'	600628.6083	30.814904	5723.8442	0.039750	3.056	
			22550.5898	0.232640	273.394	0.012321
34°56'	602477.5026	30.814989	5726.2292	0.039742	3.056	
			22564.5482	0.232734	273.675	0.012321
34°57'	604326.4019	30.815074	5728.6137	0.039734	3.056	
			22578.5123	0.232828	273.956	0.012321
34°58'	606175.3063	30.815158	5730.9978	0.039726	3.056	
			22592.4820	0.232923	274.237	0.012321
34°59'	608024.2158	30.815243	5733.3813	0.039718	3.056	
			22606.4574	0.233017	274.518	0.012321

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

MISSISSIPPI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35° 0'	609873.1304	30.815328	5735.7644	0.039710	3.056	
			22620.4384	0.233112	274.800	0.012320
35° 1'	611722.0500	30.815413	5738.1469	0.039701	3.056	
			22634.4251	0.233207	275.082	0.012320
35° 2'	613570.9748	30.815497	5740.5290	0.039693	3.056	
			22648.4175	0.233301	275.365	0.012320
35° 3'	615419.9046	30.815582	5742.9106	0.039685	3.056	
			22662.4156	0.233396	275.648	0.012320
35° 4'	617268.8396	30.815667	5745.2917	0.039677	3.056	
			22676.4194	0.233491	275.931	0.012320
35° 5'	619117.7796	30.815752	5747.6724	0.039669	3.056	
			22690.4289	0.233586	276.214	0.012320
35° 6'	620966.7247	30.815837	5750.0525	0.039661	3.056	
			22704.4440	0.233681	276.498	0.012320
35° 7'	622815.6749	30.815922	5752.4322	0.039653	3.056	
			22718.4649	0.233777	276.782	0.012320
35° 8'	624664.6302	30.816007	5754.8113	0.039645	3.056	
			22732.4915	0.233872	277.067	0.012320
35° 9'	626513.5906	30.816092	5757.1900	0.039637	3.056	
			22746.5239	0.233968	277.351	0.012320
35°10'	628362.5561	30.816176	5759.5682	0.039628	3.056	
			22760.5619	0.234063	277.637	0.012320
35°11'	630211.5267	30.816261	5761.9459	0.039620	3.056	
			22774.6057	0.234159	277.922	0.012320
35°12'	632060.5024	30.816346	5764.3232	0.039612	3.056	
			22788.6552	0.234255	278.208	0.012320
35°13'	633909.4832	30.816431	5766.6999	0.039604	3.056	
			22802.7105	0.234350	278.494	0.012320
35°14'	635758.4691	30.816516	5769.0761	0.039596	3.056	
			22816.7715	0.234446	278.780	0.012320
35°15'	637607.4601	30.816602	5771.4519	0.039588	3.056	
			22830.8383	0.234542	279.067	0.012320
35°16'	639456.4561	30.816687	5773.8272	0.039580	3.056	
			22844.9108	0.234639	279.354	0.012320
35°17'	641305.4573	30.816772	5776.2020	0.039572	3.056	
			22858.9892	0.234735	279.641	0.012320
35°18'	643154.4636	30.816857	5778.5762	0.039563	3.056	
			22873.0732	0.234831	279.929	0.012320
35°19'	645003.4750	30.816942	5780.9500	0.039555	3.056	
			22887.1631	0.234928	280.217	0.012320
35°20'	646852.4916	30.817027	5783.3234	0.039547	3.056	
			22901.2588	0.235024	280.506	0.012320

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

TRANSVERSE MERCATOR PROJECTION

TABLES FOR MISSOURI COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MISSOURI EAST
ZONE CODE: 2401

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 35°50' (latitude of grid origin)
λ_b = 90°30' (longitude of origin and Central Meridian, CM)
E_0 = 250000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999933 (scale along Central Meridian)
latitude range from ϕ_{min} = 35°50' to ϕ_{max} = 41°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 36°15'23".54600
LONGITUDE: 91°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 46230.1573
23.54600 sec = 725.7165
SECOND DIFF = -0.0006
(I) = 46955.8732
TABULAR (II) = 3578.3515
23.54600 sec = 0.2587
(II) = 3578.6103
TABULAR (III) = 2.0521
$N = (I) + (II)p^2 + (III)p^4$ = 47191.098 m

TABULAR (IV) = 249645.1670
23.54600 sec = -20.8086
SECOND DIFF = 0.0025
(IV) = 249624.3609
TABULAR (V) = 29.6866
23.54600 sec = -0.0239
(V) = 29.6628
TABULAR (VI) = -0.0217
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -63998.070 m
$E = E_0 + E'$ = 186001.930 m

TABULAR (XII) = 5913.0965
23.54600 sec = 0.9205
(XII) = 5914.0170
TABULAR (XIII) = 3.0527
$C = (XII)p + (XIII)p^3$ = -1516".26

$q = 10^{-6} E'$ = -0.06399807
TABULAR (XVI) = 0.012317
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99998378

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06399807$
$\phi' = 36°15'31''.17792$

```
TABULAR  ( VII) =    1862.8909
   31.17792 sec =       0.5870
         ( VII) =    1863.4779
TABULAR  (VIII) =      25.1153
   31.17792 sec =       0.0118
         (VIII) =      25.1270
```

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 36°15'23''.54600$

```
TABULAR  (  IX) =   40056.8540
   31.17792 sec =       4.4220
   SECOND DIFF  =      -0.0009
         (  IX) =   40061.2751
TABULAR  (   X) =     340.5379
   31.17792 sec =       0.1488
         (   X) =     340.6868
TABULAR  (  XI) =       5.4292
   31.17792 sec =       0.0043
         (  XI) =       5.4335
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 91°12'43''.75499$

```
TABULAR  ( XIV) =   23686.0042
   31.17792 sec =       7.4981
   SECOND DIFF  =      -0.0008
         ( XIV) =   23693.5016
TABULAR  (  XV) =     296.9090
   31.17792 sec =       0.1600
         (  XV) =     297.0690
```

$C = (XIV)q - (XV)q^3 = -1516''.26$

```
TABULAR  ( XVI) =     0.012317
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99998378$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MISSOURI CENTRAL
ZONE CODE: 2402

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 35°50' (latitude of grid origin)
λ_b = 92°30' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999933 (scale along Central Meridian)
latitude range from ϕ_{min} = 35°50' to ϕ_{max} = 41°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 36°15'23".54600
LONGITUDE: 93°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 46230.1573
23.54600 sec = 725.7165
SECOND DIFF = -0.0006
(I) = 46955.8732
TABULAR (II) = 3578.3515
23.54600 sec = 0.2587
(II) = 3578.6103
TABULAR (III) = 2.0521
$N = (I) + (II)p^2 + (III)p^4$ = 47191.098 m

TABULAR (IV) = 249645.1670
23.54600 sec = -20.8086
SECOND DIFF = 0.0025
(IV) = 249624.3609
TABULAR (V) = 29.6866
23.54600 sec = -0.0239
(V) = 29.6628
TABULAR (VI) = -0.0217
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -63998.070 m
$E = E_0 + E'$ = 436001.930 m

TABULAR (XII) = 5913.0965
23.54600 sec = 0.9205
(XII) = 5914.0170
TABULAR (XIII) = 3.0527
$C = (XII)p + (XIII)p^3$ = -1516".26

$q = 10^{-6} E'$ = -0.06399807
TABULAR (XVI) = 0.012317
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99998378

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06399807$
$\phi' = 36°15'31''.17792$

TABULAR	(VII) =	1862.8909
31.17792 sec	=	0.5870
	(VII) =	1863.4779
TABULAR	(VIII) =	25.1153
31.17792 sec	=	0.0118
	(VIII) =	25.1270

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 36°15'23''.54600$

TABULAR	(IX) =	40056.8540
31.17792 sec	=	4.4220
SECOND DIFF	=	-0.0009
	(IX) =	40061.2751
TABULAR	(X) =	340.5379
31.17792 sec	=	0.1488
	(X) =	340.6868
TABULAR	(XI) =	5.4292
31.17792 sec	=	0.0043
	(XI) =	5.4335

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 93°12'43''.75499$

TABULAR	(XIV) =	23686.0042
31.17792 sec	=	7.4981
SECOND DIFF	=	-0.0008
	(XIV) =	23693.5016
TABULAR	(XV) =	296.9090
31.17792 sec	=	0.1600
	(XV) =	297.0690

$C = (XIV)q - (XV)q^3 = -1516''.26$

TABULAR (XVI) = 0.012317
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99998378$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: MISSOURI WEST
ZONE CODE: 2403

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 36°10' (latitude of grid origin)
λ_b = 94°30' (longitude of origin and Central Meridian, CM)
E_0 = 850000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999941 (scale along Central Meridian)
latitude range from ϕ_{min} = 36°10' to ϕ_{max} = 40°50'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 36°15'23".54600
LONGITUDE: 95°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 9246.3617
23.54600 sec = 725.7222
SECOND DIFF = -0.0006
(I) = 9972.0832
TABULAR (II) = 3578.3796
23.54600 sec = 0.2587
(II) = 3578.6384
TABULAR (III) = 2.0521
$N = (I) + (II)p^2 + (III)p^4$ = 10207.310 m

TABULAR (IV) = 249647.1252
23.54600 sec = -20.8088
SECOND DIFF = 0.0025
(IV) = 249626.3189
TABULAR (V) = 29.6869
23.54600 sec = -0.0239
(V) = 29.6630
TABULAR (VI) = -0.0217
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -63998.572 m
$E = E_0 + E'$ = 786001.428 m

TABULAR (XII) = 5913.0965
23.54600 sec = 0.9205
(XII) = 5914.0170
TABULAR (XIII) = 3.0527
$C = (XII)p + (XIII)p^3$ = -1516".26

$q = 10^{-6} E'$ = -0.06399857
TABULAR (XVI) = 0.012317
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99999162

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06399857$
$\phi' = 36°15'31''.17792$

```
TABULAR  ( VII) =    1862.8617
   31.17792 sec =       0.5870
         ( VII) =    1863.4487
TABULAR  (VIII) =      25.1145
   31.17792 sec =       0.0118
         (VIII) =      25.1262
```

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 36°15'23''.54600$

```
TABULAR  (  IX) =   40056.5398
   31.17792 sec =       4.4220
   SECOND DIFF  =      -0.0009
         (  IX) =   40060.9609
TABULAR  (   X) =     340.5299
   31.17792 sec =       0.1488
         (   X) =     340.6787
TABULAR  (  XI) =       5.4290
   31.17792 sec =       0.0043
         (  XI) =       5.4333
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 95°12'43''.75499$

```
TABULAR  ( XIV) =   23685.8185
   31.17792 sec =       7.4981
   SECOND DIFF  =      -0.0008
         ( XIV) =   23693.3158
TABULAR  (  XV) =     296.9020
   31.17792 sec =       0.1600
         (  XV) =     297.0620
```

$C = (XIV)q - (XV)q^3 = -1516''.26$

```
TABULAR  ( XVI) =     0.012317
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99999162$

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°50'	-0.0000	30.819075	3561.4812	0.011488	2.072
	250963.8863	-0.874896	31.2100	-0.001018	-0.021
35°51'	1849.1445	30.819161	3562.1705	0.011468	2.071
	250911.3926	-0.875251	31.1489	-0.001017	-0.021
35°52'	3698.2942	30.819247	3562.8586	0.011448	2.070
	250858.8775	-0.875605	31.0879	-0.001017	-0.021
35°53'	5547.4490	30.819332	3563.5454	0.011428	2.069
	250806.3412	-0.875960	31.0269	-0.001017	-0.021
35°54'	7396.6089	30.819418	3564.2311	0.011408	2.069
	250753.7836	-0.876315	30.9658	-0.001017	-0.021
35°55'	9245.7740	30.819504	3564.9156	0.011388	2.068
	250701.2047	-0.876669	30.9048	-0.001017	-0.021
35°56'	11094.9442	30.819590	3565.5988	0.011368	2.067
	250648.6046	-0.877023	30.8438	-0.001017	-0.021
35°57'	12944.1196	30.819675	3566.2809	0.011347	2.066
	250595.9832	-0.877378	30.7828	-0.001016	-0.021
35°58'	14793.3001	30.819761	3566.9617	0.011327	2.066
	250543.3405	-0.877732	30.7218	-0.001016	-0.021
35°59'	16642.4858	30.819847	3567.6414	0.011307	2.065
	250490.6766	-0.878086	30.6608	-0.001016	-0.021
36° 0'	18491.6766	30.819933	3568.3198	0.011287	2.064
	250437.9914	-0.878440	30.5999	-0.001016	-0.021
36° 1'	20340.8726	30.820019	3568.9970	0.011267	2.063
	250385.2850	-0.878794	30.5389	-0.001016	-0.021
36° 2'	22190.0737	30.820104	3569.6730	0.011247	2.062
	250332.5574	-0.879148	30.4780	-0.001016	-0.021
36° 3'	24039.2800	30.820190	3570.3479	0.011227	2.062
	250279.8085	-0.879502	30.4170	-0.001015	-0.021
36° 4'	25888.4914	30.820276	3571.0215	0.011207	2.061
	250227.0384	-0.879856	30.3561	-0.001015	-0.021
36° 5'	27737.7080	30.820362	3571.6939	0.011187	2.060
	250174.2470	-0.880209	30.2952	-0.001015	-0.021
36° 6'	29586.9297	30.820448	3572.3651	0.011167	2.059
	250121.4345	-0.880563	30.2343	-0.001015	-0.021
36° 7'	31436.1566	30.820534	3573.0351	0.011146	2.058
	250068.6007	-0.880917	30.1734	-0.001015	-0.021
36° 8'	33285.3886	30.820620	3573.7039	0.011126	2.058
	250015.7457	-0.881270	30.1125	-0.001015	-0.021
36° 9'	35134.6258	30.820706	3574.3714	0.011106	2.057
	249962.8695	-0.881624	30.0516	-0.001014	-0.022
36°10'	36983.8681	30.820792	3575.0378	0.011086	2.056
	249909.9720	-0.881977	29.9908	-0.001014	-0.022
36°11'	38833.1156	30.820878	3575.7030	0.011066	2.055
	249857.0534	-0.882330	29.9299	-0.001014	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°12'	40682.3683	30.820964	3576.3669	0.011046	2.054
	249804.1136	-0.882683	29.8691	-0.001014	-0.022
36°13'	42531.6261	30.821050	3577.0296	0.011026	2.054
	249751.1526	-0.883037	29.8083	-0.001014	-0.022
36°14'	44380.8891	30.821136	3577.6912	0.011005	2.053
	249698.1704	-0.883390	29.7474	-0.001013	-0.022
36°15'	46230.1573	30.821222	3578.3515	0.010985	2.052
	249645.1670	-0.883743	29.6866	-0.001013	-0.022
36°16'	48079.4306	30.821308	3579.0106	0.010965	2.051
	249592.1425	-0.884096	29.6258	-0.001013	-0.022
36°17'	49928.7091	30.821394	3579.6685	0.010945	2.050
	249539.0967	-0.884448	29.5650	-0.001013	-0.022
36°18'	51777.9927	30.821480	3580.3252	0.010925	2.050
	249486.0298	-0.884801	29.5043	-0.001013	-0.022
36°19'	53627.2816	30.821566	3580.9807	0.010905	2.049
	249432.9418	-0.885154	29.4435	-0.001013	-0.022
36°20'	55476.5755	30.821653	3581.6350	0.010884	2.048
	249379.8325	-0.885507	29.3827	-0.001012	-0.022
36°21'	57325.8747	30.821739	3582.2880	0.010864	2.047
	249326.7021	-0.885859	29.3220	-0.001012	-0.022
36°22'	59175.1790	30.821825	3582.9399	0.010844	2.046
	249273.5506	-0.886212	29.2613	-0.001012	-0.022
36°23'	61024.4885	30.821911	3583.5905	0.010824	2.046
	249220.3779	-0.886564	29.2005	-0.001012	-0.022
36°24'	62873.8032	30.821997	3584.2400	0.010804	2.045
	249167.1840	-0.886916	29.1398	-0.001012	-0.022
36°25'	64723.1230	30.822083	3584.8882	0.010783	2.044
	249113.9691	-0.887269	29.0791	-0.001011	-0.022
36°26'	66572.4480	30.822170	3585.5352	0.010763	2.043
	249060.7329	-0.887621	29.0184	-0.001011	-0.022
36°27'	68421.7782	30.822256	3586.1810	0.010743	2.042
	249007.4757	-0.887973	28.9578	-0.001011	-0.022
36°28'	70271.1135	30.822342	3586.8256	0.010723	2.042
	248954.1973	-0.888325	28.8971	-0.001011	-0.022
36°29'	72120.4541	30.822429	3587.4690	0.010703	2.041
	248900.8978	-0.888677	28.8364	-0.001011	-0.022
36°30'	73969.7998	30.822515	3588.1111	0.010682	2.040
	248847.5772	-0.889029	28.7758	-0.001011	-0.022
36°31'	75819.1507	30.822601	3588.7521	0.010662	2.039
	248794.2355	-0.889381	28.7152	-0.001010	-0.022
36°32'	77668.5068	30.822687	3589.3918	0.010642	2.038
	248740.8726	-0.889733	28.6545	-0.001010	-0.022
36°33'	79517.8680	30.822774	3590.0303	0.010622	2.037
	248687.4887	-0.890084	28.5939	-0.001010	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°34'	81367.2344	30.822860	3590.6676	0.010602	2.037
	248634.0836	-0.890436	28.5333	-0.001010	-0.022
36°35'	83216.6060	30.822947	3591.3037	0.010581	2.036
	248580.6575	-0.890787	28.4727	-0.001010	-0.022
36°36'	85065.9828	30.823033	3591.9386	0.010561	2.035
	248527.2102	-0.891139	28.4122	-0.001009	-0.022
36°37'	86915.3648	30.823119	3592.5723	0.010541	2.034
	248473.7419	-0.891490	28.3516	-0.001009	-0.022
36°38'	88764.7520	30.823206	3593.2047	0.010521	2.033
	248420.2525	-0.891842	28.2911	-0.001009	-0.022
36°39'	90614.1443	30.823292	3593.8360	0.010500	2.032
	248366.7420	-0.892193	28.2305	-0.001009	-0.022
36°40'	92463.5419	30.823379	3594.4660	0.010480	2.032
	248313.2104	-0.892544	28.1700	-0.001009	-0.022
36°41'	94312.9446	30.823465	3595.0948	0.010460	2.031
	248259.6578	-0.892895	28.1095	-0.001008	-0.022
36°42'	96162.3525	30.823552	3595.7224	0.010440	2.030
	248206.0841	-0.893246	28.0490	-0.001008	-0.023
36°43'	98011.7656	30.823638	3596.3488	0.010419	2.029
	248152.4893	-0.893597	27.9885	-0.001008	-0.023
36°44'	99861.1839	30.823725	3596.9740	0.010399	2.028
	248098.8735	-0.893948	27.9280	-0.001008	-0.023
36°45'	101710.6074	30.823811	3597.5979	0.010379	2.027
	248045.2366	-0.894299	27.8675	-0.001008	-0.023
36°46'	103560.0360	30.823898	3598.2206	0.010359	2.027
	247991.5787	-0.894650	27.8071	-0.001007	-0.023
36°47'	105409.4699	30.823984	3598.8422	0.010338	2.026
	247937.8997	-0.895000	27.7466	-0.001007	-0.023
36°48'	107258.9090	30.824071	3599.4625	0.010318	2.025
	247884.1997	-0.895351	27.6862	-0.001007	-0.023
36°49'	109108.3532	30.824158	3600.0815	0.010298	2.024
	247830.4786	-0.895701	27.6257	-0.001007	-0.023
36°50'	110957.8027	30.824244	3600.6994	0.010278	2.023
	247776.7366	-0.896052	27.5653	-0.001007	-0.023
36°51'	112807.2573	30.824331	3601.3161	0.010257	2.022
	247722.9735	-0.896402	27.5049	-0.001006	-0.023
36°52'	114656.7172	30.824417	3601.9315	0.010237	2.021
	247669.1893	-0.896752	27.4446	-0.001006	-0.023
36°53'	116506.1822	30.824504	3602.5457	0.010217	2.021
	247615.3842	-0.897103	27.3842	-0.001006	-0.023
36°54'	118355.6525	30.824591	3603.1587	0.010196	2.020
	247561.5580	-0.897453	27.3238	-0.001006	-0.023
36°55'	120205.1279	30.824677	3603.7705	0.010176	2.019
	247507.7109	-0.897803	27.2635	-0.001006	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°56'	122054.6086	30.824764	3604.3810	0.010156	2.018
	247453.8427	-0.898153	27.2031	-0.001005	-0.023
36°57'	123904.0944	30.824851	3604.9904	0.010135	2.017
	247399.9535	-0.898503	27.1428	-0.001005	-0.023
36°58'	125753.5855	30.824938	3605.5985	0.010115	2.016
	247346.0434	-0.898853	27.0825	-0.001005	-0.023
36°59'	127603.0817	30.825024	3606.2054	0.010095	2.015
	247292.1122	-0.899202	27.0222	-0.001005	-0.023
37° 0'	129452.5832	30.825111	3606.8111	0.010074	2.015
	247238.1600	-0.899552	26.9619	-0.001005	-0.023
37° 1'	131302.0898	30.825198	3607.4156	0.010054	2.014
	247184.1869	-0.899902	26.9016	-0.001004	-0.023
37° 2'	133151.6017	30.825285	3608.0188	0.010034	2.013
	247130.1928	-0.900251	26.8414	-0.001004	-0.023
37° 3'	135001.1188	30.825371	3608.6209	0.010014	2.012
	247076.1777	-0.900601	26.7811	-0.001004	-0.023
37° 4'	136850.6411	30.825458	3609.2217	0.009993	2.011
	247022.1417	-0.900950	26.7209	-0.001004	-0.023
37° 5'	138700.1686	30.825545	3609.8213	0.009973	2.010
	246968.0847	-0.901300	26.6607	-0.001004	-0.023
37° 6'	140549.7013	30.825632	3610.4196	0.009952	2.009
	246914.0067	-0.901649	26.6004	-0.001003	-0.023
37° 7'	142399.2392	30.825719	3611.0168	0.009932	2.009
	246859.9078	-0.901998	26.5402	-0.001003	-0.023
37° 8'	144248.7823	30.825806	3611.6127	0.009912	2.008
	246805.7879	-0.902347	26.4801	-0.001003	-0.023
37° 9'	146098.3307	30.825893	3612.2074	0.009891	2.007
	246751.6470	-0.902696	26.4199	-0.001003	-0.023
37°10'	147947.8842	30.825980	3612.8009	0.009871	2.006
	246697.4853	-0.903045	26.3597	-0.001002	-0.023
37°11'	149797.4430	30.826066	3613.3932	0.009851	2.005
	246643.3025	-0.903394	26.2996	-0.001002	-0.023
37°12'	151647.0070	30.826153	3613.9842	0.009830	2.004
	246589.0989	-0.903743	26.2394	-0.001002	-0.023
37°13'	153496.5762	30.826240	3614.5740	0.009810	2.003
	246534.8743	-0.904092	26.1793	-0.001002	-0.023
37°14'	155346.1506	30.826327	3615.1626	0.009790	2.002
	246480.6288	-0.904440	26.1192	-0.001002	-0.023
37°15'	157195.7302	30.826414	3615.7500	0.009769	2.002
	246426.3624	-0.904789	26.0591	-0.001001	-0.023
37°16'	159045.3151	30.826501	3616.3362	0.009749	2.001
	246372.0751	-0.905137	25.9990	-0.001001	-0.024
37°17'	160894.9052	30.826588	3616.9211	0.009729	2.000
	246317.7668	-0.905486	25.9390	-0.001001	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°18'	162744.5005	30.826675	3617.5048	0.009708	1.999
	246263.4377	-0.905834	25.8789	-0.001001	-0.024
37°19'	164594.1010	30.826762	3618.0873	0.009688	1.998
	246209.0876	-0.906183	25.8188	-0.001001	-0.024
37°20'	166443.7067	30.826849	3618.6686	0.009667	1.997
	246154.7166	-0.906531	25.7588	-0.001000	-0.024
37°21'	168293.3177	30.826936	3619.2486	0.009647	1.996
	246100.3248	-0.906879	25.6988	-0.001000	-0.024
37°22'	170142.9339	30.827024	3619.8275	0.009627	1.995
	246045.9121	-0.907227	25.6388	-0.00100	-0.024
37°23'	171992.5553	30.827111	3620.4051	0.009606	1.994
	245991.4784	-0.907575	25.5788	-0.00100	-0.024
37°24'	173842.1819	30.827198	3620.9814	0.009586	1.994
	245937.0239	-0.907923	25.5188	-0.000999	-0.024
37°25'	175691.8138	30.827285	3621.5566	0.009565	1.993
	245882.5485	-0.908271	25.4589	-0.000999	-0.024
37°26'	177541.4509	30.827372	3622.1305	0.009545	1.992
	245828.0523	-0.908619	25.3989	-0.000999	-0.024
37°27'	179391.0932	30.827459	3622.7032	0.009525	1.991
	245773.5352	-0.908966	25.3390	-0.000999	-0.024
37°28'	181240.7408	30.827546	3623.2747	0.009504	1.990
	245718.9972	-0.909314	25.2791	-0.000999	-0.024
37°29'	183090.3935	30.827634	3623.8449	0.009484	1.989
	245664.4383	-0.909662	25.2191	-0.000998	-0.024
37°30'	184940.0516	30.827721	3624.4140	0.009463	1.988
	245609.8587	-0.910009	25.1592	-0.000998	-0.024
37°31'	186789.7148	30.827808	3624.9818	0.009443	1.987
	245555.2581	-0.910356	25.0994	-0.000998	-0.024
37°32'	188639.3833	30.827895	3625.5483	0.009423	1.986
	245500.6367	-0.910704	25.0395	-0.000998	-0.024
37°33'	190489.0570	30.827982	3626.1137	0.009402	1.985
	245445.9945	-0.911051	24.9796	-0.000997	-0.024
37°34'	192338.7359	30.828070	3626.6778	0.009382	1.985
	245391.3314	-0.911398	24.9198	-0.000997	-0.024
37°35'	194188.4201	30.828157	3627.2407	0.009361	1.984
	245336.6475	-0.911745	24.8600	-0.000997	-0.024
37°36'	196038.1095	30.828244	3627.8024	0.009341	1.983
	245281.9428	-0.912092	24.8002	-0.000997	-0.024
37°37'	197887.8042	30.828331	3628.3628	0.009320	1.982
	245227.2173	-0.912439	24.7404	-0.000996	-0.024
37°38'	199737.5041	30.828419	3628.9221	0.009300	1.981
	245172.4709	-0.912786	24.6806	-0.000996	-0.024
37°39'	201587.2092	30.828506	3629.4800	0.009279	1.980
	245117.7037	-0.913133	24.6208	-0.000996	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°40'	203436.9195	30.828593	3630.0368	0.009259	1.979
	245062.9157	-0.913480	24.5610	-0.000996	-0.024
37°41'	205286.6352	30.828681	3630.5924	0.009239	1.978
	245008.1070	-0.913826	24.5013	-0.000996	-0.024
37°42'	207136.3560	30.828768	3631.1467	0.009218	1.977
	244953.2774	-0.914173	24.4416	-0.000995	-0.024
37°43'	208986.0821	30.828856	3631.6998	0.009198	1.976
	244898.4270	-0.914520	24.3818	-0.000995	-0.024
37°44'	210835.8134	30.828943	3632.2516	0.009177	1.975
	244843.5558	-0.914866	24.3221	-0.000995	-0.024
37°45'	212685.5500	30.829030	3632.8022	0.009157	1.974
	244788.6639	-0.915212	24.2625	-0.000995	-0.024
37°46'	214535.2918	30.829118	3633.3516	0.009136	1.974
	244733.7511	-0.915559	24.2028	-0.000994	-0.024
37°47'	216385.0389	30.829205	3633.8998	0.009116	1.973
	244678.8176	-0.915905	24.1431	-0.000994	-0.024
37°48'	218234.7912	30.829293	3634.4468	0.009095	1.972
	244623.8633	-0.916251	24.0835	-0.000994	-0.024
37°49'	220084.5487	30.829380	3634.9925	0.009075	1.971
	244568.8882	-0.916597	24.0238	-0.000994	-0.024
37°50'	221934.3115	30.829468	3635.5370	0.009054	1.970
	244513.8924	-0.916943	23.9642	-0.000993	-0.024
37°51'	223784.0796	30.829555	3636.0802	0.009034	1.969
	244458.8758	-0.917289	23.9046	-0.000993	-0.024
37°52'	225633.8529	30.829642	3636.6223	0.009013	1.968
	244403.8385	-0.917635	23.8450	-0.000993	-0.024
37°53'	227483.6314	30.829730	3637.1631	0.008993	1.967
	244348.7804	-0.917981	23.7855	-0.000993	-0.025
37°54'	229333.4152	30.829818	3637.7026	0.008972	1.966
	244293.7016	-0.918326	23.7259	-0.000992	-0.025
37°55'	231183.2043	30.829905	3638.2410	0.008952	1.965
	244238.6020	-0.918672	23.6664	-0.000992	-0.025
37°56'	233032.9986	30.829993	3638.7781	0.008931	1.964
	244183.4817	-0.919017	23.6068	-0.000992	-0.025
37°57'	234882.7981	30.830080	3639.3140	0.008911	1.963
	244128.3406	-0.919363	23.5473	-0.000992	-0.025
37°58'	236732.6030	30.830168	3639.8486	0.008890	1.962
	244073.1789	-0.919708	23.4878	-0.000991	-0.025
37°59'	238582.4130	30.830255	3640.3820	0.008870	1.962
	244017.9964	-0.920054	23.4283	-0.000991	-0.025
38° 0'	240432.2283	30.830343	3640.9142	0.008849	1.961
	243962.7932	-0.920399	23.3689	-0.000991	-0.025
38° 1'	242282.0489	30.830431	3641.4452	0.008829	1.960
	243907.5692	-0.920744	23.3094	-0.000991	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38° 2'	244131.8748	30.830518	3641.9749	0.008808	1.959
	243852.3246	-0.921089	23.2500	-0.000990	-0.025
38° 3'	245981.7058	30.830606	3642.5034	0.008788	1.958
	243797.0593	-0.921434	23.1905	-0.000990	-0.025
38° 4'	247831.5422	30.830693	3643.0307	0.008767	1.957
	243741.7732	-0.921779	23.1311	-0.000990	-0.025
38° 5'	249681.3838	30.830781	3643.5567	0.008747	1.956
	243686.4665	-0.922124	23.0717	-0.000990	-0.025
38° 6'	251531.2307	30.830869	3644.0815	0.008726	1.955
	243631.1390	-0.922469	23.0123	-0.000989	-0.025
38° 7'	253381.0828	30.830957	3644.6051	0.008706	1.954
	243575.7909	-0.922813	22.9530	-0.000989	-0.025
38° 8'	255230.9402	30.831044	3645.1274	0.008685	1.953
	243520.4221	-0.923158	22.8936	-0.000989	-0.025
38° 9'	257080.8028	30.831132	3645.6485	0.008665	1.952
	243465.0327	-0.923502	22.8343	-0.000989	-0.025
38°10'	258930.6708	30.831220	3646.1684	0.008644	1.951
	243409.6225	-0.923847	22.7750	-0.000988	-0.025
38°11'	260780.5439	30.831307	3646.6870	0.008623	1.950
	243354.1917	-0.924191	22.7157	-0.000988	-0.025
38°12'	262630.4224	30.831395	3647.2044	0.008603	1.949
	243298.7402	-0.924536	22.6564	-0.000988	-0.025
38°13'	264480.3061	30.831483	3647.7206	0.008582	1.948
	243243.2681	-0.924880	22.5971	-0.000988	-0.025
38°14'	266330.1951	30.831571	3648.2356	0.008562	1.947
	243187.7753	-0.925224	22.5378	-0.000987	-0.025
38°15'	268180.0893	30.831659	3648.7493	0.008541	1.946
	243132.2618	-0.925568	22.4786	-0.000987	-0.025
38°16'	270029.9888	30.831746	3649.2617	0.008521	1.945
	243076.7277	-0.925912	22.4194	-0.000987	-0.025
38°17'	271879.8936	30.831834	3649.7730	0.008500	1.944
	243021.1730	-0.926256	22.3601	-0.000987	-0.025
38°18'	273729.8037	30.831922	3650.2830	0.008480	1.944
	242965.5976	-0.926600	22.3009	-0.000986	-0.025
38°19'	275579.7190	30.832010	3650.7918	0.008459	1.943
	242910.0016	-0.926944	22.2418	-0.000986	-0.025
38°20'	277429.6396	30.832098	3651.2993	0.008438	1.942
	242854.3850	-0.927288	22.1826	-0.000986	-0.025
38°21'	279279.5654	30.832186	3651.8056	0.008418	1.941
	242798.7477	-0.927631	22.1234	-0.000986	-0.025
38°22'	281129.4966	30.832273	3652.3107	0.008397	1.940
	242743.0899	-0.927975	22.0643	-0.000985	-0.025
38°23'	282979.4330	30.832361	3652.8145	0.008377	1.939
	242687.4114	-0.928318	22.0052	-0.000985	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°24'	284829.3746	30.832449	3653.3171	0.008356	1.938
	242631.7123	-0.928662	21.9461	-0.000985	-0.025
38°25'	286679.3216	30.832537	3653.8185	0.008336	1.937
	242575.9926	-0.929005	21.8870	-0.000985	-0.025
38°26'	288529.2738	30.832625	3654.3186	0.008315	1.936
	242520.2523	-0.929348	21.8279	-0.000984	-0.025
38°27'	290379.2313	30.832713	3654.8175	0.008294	1.935
	242464.4914	-0.929691	21.7689	-0.000984	-0.025
38°28'	292229.1941	30.832801	3655.3152	0.008274	1.934
	242408.7099	-0.930035	21.7098	-0.000984	-0.025
38°29'	294079.1622	30.832889	3655.8116	0.008253	1.933
	242352.9078	-0.930378	21.6508	-0.000984	-0.025
38°30'	295929.1355	30.832977	3656.3068	0.008233	1.932
	242297.0852	-0.930721	21.5918	-0.000983	-0.025
38°31'	297779.1141	30.833065	3656.8007	0.008212	1.931
	242241.2420	-0.931063	21.5328	-0.000983	-0.025
38°32'	299629.0980	30.833153	3657.2934	0.008191	1.930
	242185.3782	-0.931406	21.4738	-0.000983	-0.025
38°33'	301479.0872	30.833241	3657.7849	0.008171	1.929
	242129.4938	-0.931749	21.4148	-0.000982	-0.026
38°34'	303329.0817	30.833329	3658.2752	0.008150	1.928
	242073.5889	-0.932092	21.3559	-0.000982	-0.026
38°35'	305179.0814	30.833417	3658.7642	0.008129	1.927
	242017.6634	-0.932434	21.2970	-0.000982	-0.026
38°36'	307029.0864	30.833505	3659.2519	0.008109	1.926
	241961.7173	-0.932777	21.2380	-0.000982	-0.026
38°37'	308879.0967	30.833593	3659.7385	0.008088	1.925
	241905.7507	-0.933119	21.1791	-0.000981	-0.026
38°38'	310729.1123	30.833681	3660.2238	0.008068	1.924
	241849.7636	-0.933461	21.1203	-0.000981	-0.026
38°39'	312579.1332	30.833769	3660.7078	0.008047	1.923
	241793.7559	-0.933804	21.0614	-0.000981	-0.026
38°40'	314429.1594	30.833857	3661.1906	0.008026	1.922
	241737.7277	-0.934146	21.0025	-0.000981	-0.026
38°41'	316279.1908	30.833946	3661.6722	0.008006	1.921
	241681.6789	-0.934488	20.9437	-0.000980	-0.026
38°42'	318129.2275	30.834034	3662.1526	0.007985	1.920
	241625.6096	-0.934830	20.8849	-0.000980	-0.026
38°43'	319979.2696	30.834122	3662.6317	0.007964	1.919
	241569.5198	-0.935172	20.8261	-0.000980	-0.026
38°44'	321829.3169	30.834210	3663.1095	0.007944	1.918
	241513.4095	-0.935514	20.7673	-0.000979	-0.026
38°45'	323679.3695	30.834298	3663.5862	0.007923	1.917
	241457.2787	-0.935856	20.7085	-0.000979	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°46'	325529.4273	30.834386	3664.0616	0.007903	1.916
	241401.1273	-0.936197	20.6498	-0.000979	-0.026
38°47'	327379.4905	30.834474	3664.5357	0.007882	1.915
	241344.9555	-0.936539	20.5911	-0.000979	-0.026
38°48'	329229.5590	30.834563	3665.0086	0.007861	1.914
	241288.7632	-0.936881	20.5323	-0.000978	-0.026
38°49'	331079.6328	30.834651	3665.4803	0.007841	1.913
	241232.5503	-0.937222	20.4736	-0.000978	-0.026
38°50'	332929.7118	30.834739	3665.9507	0.007820	1.912
	241176.3170	-0.937564	20.4149	-0.000978	-0.026
38°51'	334779.7962	30.834827	3666.4199	0.007799	1.911
	241120.0632	-0.937905	20.3563	-0.000978	-0.026
38°52'	336629.8858	30.834916	3666.8879	0.007779	1.910
	241063.7889	-0.938246	20.2976	-0.000977	-0.026
38°53'	338479.9807	30.835004	3667.3546	0.007758	1.909
	241007.4941	-0.938587	20.2390	-0.000977	-0.026
38°54'	340330.0810	30.835092	3667.8201	0.007737	1.908
	240951.1789	-0.938928	20.1804	-0.000977	-0.026
38°55'	342180.1865	30.835180	3668.2843	0.007717	1.907
	240894.8432	-0.939269	20.1218	-0.000976	-0.026
38°56'	344030.2973	30.835269	3668.7473	0.007696	1.906
	240838.4870	-0.939610	20.0632	-0.000976	-0.026
38°57'	345880.4134	30.835357	3669.2090	0.007675	1.905
	240782.1104	-0.939951	20.0046	-0.000976	-0.026
38°58'	347730.5349	30.835445	3669.6696	0.007655	1.904
	240725.7133	-0.940292	19.9461	-0.000976	-0.026
38°59'	349580.6616	30.835534	3670.1288	0.007634	1.903
	240669.2958	-0.940633	19.8875	-0.000975	-0.026
39° 0'	351430.7936	30.835622	3670.5869	0.007613	1.902
	240612.8578	-0.940973	19.8290	-0.000975	-0.026
39° 1'	353280.9309	30.835710	3671.0437	0.007592	1.901
	240556.3994	-0.941314	19.7705	-0.000975	-0.026
39° 2'	355131.0735	30.835799	3671.4992	0.007572	1.900
	240499.9206	-0.941655	19.7120	-0.000974	-0.026
39° 3'	356981.2214	30.835887	3671.9535	0.007551	1.899
	240443.4213	-0.941995	19.6536	-0.000974	-0.026
39° 4'	358831.3747	30.835975	3672.4066	0.007530	1.898
	240386.9016	-0.942335	19.5951	-0.000974	-0.026
39° 5'	360681.5332	30.836064	3672.8584	0.007510	1.897
	240330.3615	-0.942676	19.5367	-0.000974	-0.026
39° 6'	362531.6970	30.836152	3673.3090	0.007489	1.896
	240273.8010	-0.943016	19.4783	-0.000973	-0.026
39° 7'	364381.8662	30.836241	3673.7583	0.007468	1.895
	240217.2200	-0.943356	19.4199	-0.000973	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39° 8'	366232.0406	30.836329	3674.2064	0.007448	1.894
	240160.6187	-0.943696	19.3615	-0.000973	-0.026
39° 9'	368082.2203	30.836417	3674.6533	0.007427	1.893
	240103.9969	-0.944036	19.3031	-0.000972	-0.026
39°10'	369932.4054	30.836506	3675.0989	0.007406	1.892
	240047.3548	-0.944376	19.2448	-0.000972	-0.026
39°11'	371782.5957	30.836594	3675.5433	0.007385	1.891
	239990.6922	-0.944715	19.1865	-0.000972	-0.026
39°12'	373632.7914	30.836683	3675.9864	0.007365	1.890
	239934.0093	-0.945055	19.1281	-0.000972	-0.026
39°13'	375482.9924	30.836771	3676.4283	0.007344	1.889
	239877.3060	-0.945395	19.0699	-0.000971	-0.026
39°14'	377333.1987	30.836860	3676.8689	0.007323	1.888
	239820.5823	-0.945734	19.0116	-0.000971	-0.026
39°15'	379183.4103	30.836948	3677.3083	0.007303	1.887
	239763.8382	-0.946074	18.9533	-0.000971	-0.026
39°16'	381033.6272	30.837037	3677.7465	0.007282	1.886
	239707.0738	-0.946413	18.8951	-0.000970	-0.026
39°17'	382883.8494	30.837125	3678.1834	0.007261	1.885
	239650.2890	-0.946753	18.8369	-0.000970	-0.027
39°18'	384734.0769	30.837214	3678.6191	0.007240	1.884
	239593.4839	-0.947092	18.7786	-0.000970	-0.027
39°19'	386584.3097	30.837302	3679.0535	0.007220	1.883
	239536.6583	-0.947431	18.7205	-0.000969	-0.027
39°20'	388434.5479	30.837391	3679.4867	0.007199	1.882
	239479.8125	-0.947770	18.6623	-0.000969	-0.027
39°21'	390284.7913	30.837480	3679.9186	0.007178	1.881
	239422.9463	-0.948109	18.6041	-0.000969	-0.027
39°22'	392135.0401	30.837568	3680.3493	0.007157	1.880
	239366.0597	-0.948448	18.5460	-0.000969	-0.027
39°23'	393985.2942	30.837657	3680.7788	0.007137	1.879
	239309.1528	-0.948787	18.4879	-0.000968	-0.027
39°24'	395835.5536	30.837745	3681.2070	0.007116	1.878
	239252.2256	-0.949126	18.4298	-0.000968	-0.027
39°25'	397685.8183	30.837834	3681.6339	0.007095	1.877
	239195.2781	-0.949464	18.3717	-0.000968	-0.027
39°26'	399536.0884	30.837923	3682.0596	0.007074	1.876
	239138.3102	-0.949803	18.3136	-0.000967	-0.027
39°27'	401386.3637	30.838011	3682.4841	0.007054	1.875
	239081.3220	-0.950142	18.2556	-0.000967	-0.027
39°28'	403236.6444	30.838100	3682.9073	0.007033	1.874
	239024.3135	-0.950480	18.1976	-0.000967	-0.027
39°29'	405086.9304	30.838189	3683.3293	0.007012	1.873
	238967.2847	-0.950818	18.1396	-0.000967	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°30'	406937.2217	30.838277	3683.7500	0.006991	1.872
	238910.2356	-0.951157	18.0816	-0.000966	-0.027
39°31'	408787.5183	30.838366	3684.1695	0.006971	1.871
	238853.1662	-0.951495	18.0236	-0.000966	-0.027
39°32'	410637.8203	30.838455	3684.5878	0.006950	1.870
	238796.0765	-0.951833	17.9656	-0.000966	-0.027
39°33'	412488.1275	30.838543	3685.0048	0.006929	1.869
	238738.9665	-0.952171	17.9077	-0.000965	-0.027
39°34'	414338.4401	30.838632	3685.4205	0.006908	1.867
	238681.8362	-0.952509	17.8498	-0.000965	-0.027
39°35'	416188.7581	30.838721	3685.8350	0.006888	1.866
	238624.6857	-0.952847	17.7919	-0.000965	-0.027
39°36'	418039.0813	30.838809	3686.2483	0.006867	1.865
	238567.5149	-0.953185	17.7340	-0.000964	-0.027
39°37'	419889.4099	30.838898	3686.6603	0.006846	1.864
	238510.3238	-0.953523	17.6762	-0.000964	-0.027
39°38'	421739.7437	30.838987	3687.0710	0.006825	1.863
	238453.1124	-0.953860	17.6183	-0.000964	-0.027
39°39'	423590.0830	30.839076	3687.4806	0.006805	1.862
	238395.8808	-0.954198	17.5605	-0.000963	-0.027
39°40'	425440.4275	30.839164	3687.8888	0.006784	1.861
	238338.6289	-0.954536	17.5027	-0.000963	-0.027
39°41'	427290.7774	30.839253	3688.2959	0.006763	1.860
	238281.3567	-0.954873	17.4449	-0.000963	-0.027
39°42'	429141.1325	30.839342	3688.7016	0.006742	1.859
	238224.0643	-0.955210	17.3871	-0.000963	-0.027
39°43'	430991.4931	30.839431	3689.1062	0.006721	1.858
	238166.7517	-0.955548	17.3294	-0.000962	-0.027
39°44'	432841.8589	30.839520	3689.5094	0.006701	1.857
	238109.4189	-0.955885	17.2716	-0.000962	-0.027
39°45'	434692.2301	30.839608	3689.9115	0.006680	1.856
	238052.0658	-0.956222	17.2139	-0.000962	-0.027
39°46'	436542.6066	30.839697	3690.3123	0.006659	1.855
	237994.6924	-0.956559	17.1562	-0.000961	-0.027
39°47'	438392.9884	30.839786	3690.7118	0.006638	1.854
	237937.2989	-0.956896	17.0985	-0.000961	-0.027
39°48'	440243.3756	30.839875	3691.1101	0.006617	1.853
	237879.8851	-0.957233	17.0409	-0.000961	-0.027
39°49'	442093.7681	30.839964	3691.5071	0.006597	1.852
	237822.4511	-0.957570	16.9832	-0.000960	-0.027
39°50'	443944.1659	30.840053	3691.9029	0.006576	1.851
	237764.9969	-0.957907	16.9256	-0.000960	-0.027
39°51'	445794.5690	30.840141	3692.2975	0.006555	1.850
	237707.5225	-0.958243	16.8680	-0.000960	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°52'	447644.9775	30.840230	3692.6908	0.006534	1.849
	237650.0279	-0.958580	16.8104	-0.000959	-0.027
39°53'	449495.3913	30.840319	3693.0828	0.006513	1.848
	237592.5132	-0.958916	16.7529	-0.000959	-0.027
39°54'	451345.8105	30.840408	3693.4736	0.006493	1.846
	237534.9782	-0.959253	16.6953	-0.000959	-0.027
39°55'	453196.2350	30.840497	3693.8632	0.006472	1.845
	237477.4230	-0.959589	16.6378	-0.000958	-0.027
39°56'	455046.6648	30.840586	3694.2515	0.006451	1.844
	237419.8477	-0.959925	16.5803	-0.000958	-0.027
39°57'	456897.1000	30.840675	3694.6385	0.006430	1.843
	237362.2521	-0.960262	16.5228	-0.000958	-0.027
39°58'	458747.5405	30.840764	3695.0243	0.006409	1.842
	237304.6364	-0.960598	16.4653	-0.000957	-0.027
39°59'	460597.9863	30.840853	3695.4089	0.006388	1.841
	237247.0006	-0.960934	16.4079	-0.000957	-0.027
40° 0'	462448.4375	30.840942	3695.7922	0.006368	1.840
	237189.3445	-0.961270	16.3505	-0.000957	-0.027
40° 1'	464298.8940	30.841031	3696.1742	0.006347	1.839
	237131.6684	-0.961606	16.2930	-0.000957	-0.027
40° 2'	466149.3558	30.841120	3696.5550	0.006326	1.838
	237073.9720	-0.961941	16.2357	-0.000956	-0.027
40° 3'	467999.8230	30.841209	3696.9346	0.006305	1.837
	237016.2555	-0.962277	16.1783	-0.000956	-0.027
40° 4'	469850.2955	30.841298	3697.3129	0.006284	1.836
	236958.5189	-0.962613	16.1209	-0.000956	-0.027
40° 5'	471700.7734	30.841387	3697.6900	0.006263	1.835
	236900.7622	-0.962948	16.0636	-0.000955	-0.027
40° 6'	473551.2566	30.841476	3698.0658	0.006243	1.834
	236842.9853	-0.963284	16.0063	-0.000955	-0.028
40° 7'	475401.7451	30.841565	3698.4403	0.006222	1.833
	236785.1882	-0.963619	15.9490	-0.000955	-0.028
40° 8'	477252.2390	30.841654	3698.8136	0.006201	1.831
	236727.3711	-0.963955	15.8917	-0.000954	-0.028
40° 9'	479102.7383	30.841743	3699.1857	0.006180	1.830
	236669.5338	-0.964290	15.8344	-0.000954	-0.028
40°10'	480953.2428	30.841832	3699.5565	0.006159	1.829
	236611.6764	-0.964625	15.7772	-0.000954	-0.028
40°11'	482803.7527	30.841921	3699.9260	0.006138	1.828
	236553.7989	-0.964960	15.7200	-0.000953	-0.028
40°12'	484654.2680	30.842010	3700.2943	0.006117	1.827
	236495.9013	-0.965295	15.6628	-0.000953	-0.028
40°13'	486504.7886	30.842099	3700.6614	0.006097	1.826
	236437.9836	-0.965630	15.6056	-0.000953	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°14'	488355.3146	30.842188	3701.0271	0.006076	1.825
	236380.0458	-0.965965	15.5485	-0.000952	-0.028
40°15'	490205.8459	30.842277	3701.3917	0.006055	1.824
	236322.0879	-0.966300	15.4913	-0.000952	-0.028
40°16'	492056.3825	30.842366	3701.7550	0.006034	1.823
	236264.1100	-0.966634	15.4342	-0.000952	-0.028
40°17'	493906.9245	30.842456	3702.1170	0.006013	1.822
	236206.1119	-0.966969	15.3771	-0.000951	-0.028
40°18'	495757.4718	30.842545	3702.4778	0.005992	1.821
	236148.0938	-0.967303	15.3200	-0.000951	-0.028
40°19'	497608.0245	30.842634	3702.8373	0.005971	1.820
	236090.0556	-0.967638	15.2630	-0.000951	-0.028
40°20'	499458.5825	30.842723	3703.1956	0.005951	1.818
	236031.9973	-0.967972	15.2059	-0.000950	-0.028
40°21'	501309.1459	30.842812	3703.5527	0.005930	1.817
	235973.9190	-0.968306	15.1489	-0.000950	-0.028
40°22'	503159.7146	30.842901	3703.9084	0.005909	1.816
	235915.8206	-0.968641	15.0919	-0.000950	-0.028
40°23'	505010.2887	30.842990	3704.2630	0.005888	1.815
	235857.7022	-0.968975	15.0349	-0.000949	-0.028
40°24'	506860.8682	30.843080	3704.6162	0.005867	1.814
	235799.5637	-0.969309	14.9780	-0.000949	-0.028
40°25'	508711.4529	30.843169	3704.9683	0.005846	1.813
	235741.4052	-0.969643	14.9210	-0.000949	-0.028
40°26'	510562.0431	30.843258	3705.3190	0.005825	1.812
	235683.2266	-0.969977	14.8641	-0.000948	-0.028
40°27'	512412.6385	30.843347	3705.6685	0.005804	1.811
	235625.0280	-0.970310	14.8072	-0.000948	-0.028
40°28'	514263.2394	30.843437	3706.0168	0.005783	1.810
	235566.8094	-0.970644	14.7503	-0.000948	-0.028
40°29'	516113.8456	30.843526	3706.3638	0.005763	1.809
	235508.5707	-0.970978	14.6935	-0.000947	-0.028
40°30'	517964.4571	30.843615	3706.7096	0.005742	1.808
	235450.3120	-0.971311	14.6366	-0.000947	-0.028
40°31'	519815.0740	30.843704	3707.0541	0.005721	1.806
	235392.0333	-0.971645	14.5798	-0.000947	-0.028
40°32'	521665.6963	30.843793	3707.3973	0.005700	1.805
	235333.7347	-0.971978	14.5230	-0.000946	-0.028
40°33'	523516.3239	30.843883	3707.7393	0.005679	1.804
	235275.4160	-0.972312	14.4662	-0.000946	-0.028
40°34'	525366.9568	30.843972	3708.0800	0.005658	1.803
	235217.0773	-0.972645	14.4095	-0.000946	-0.028
40°35'	527217.5952	30.844061	3708.4195	0.005637	1.802
	235158.7186	-0.972978	14.3527	-0.000945	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°36'	529068.2388	30.844151	3708.7577	0.005616	1.801
	235100.3399	-0.973311	14.2960	-0.000945	-0.028
40°37'	530918.8879	30.844240	3709.0947	0.005595	1.800
	235041.9412	-0.973644	14.2393	-0.000945	-0.028
40°38'	532769.5423	30.844329	3709.4304	0.005574	1.799
	234983.5226	-0.973977	14.1827	-0.000944	-0.028
40°39'	534620.2020	30.844418	3709.7649	0.005554	1.798
	234925.0839	-0.974310	14.1260	-0.000944	-0.028
40°40'	536470.8671	30.844508	3710.0981	0.005533	1.797
	234866.6253	-0.974643	14.0694	-0.000944	-0.028
40°41'	538321.5376	30.844597	3710.4301	0.005512	1.795
	234808.1468	-0.974975	14.0128	-0.000943	-0.028
40°42'	540172.2134	30.844686	3710.7608	0.005491	1.794
	234749.6482	-0.975308	13.9562	-0.000943	-0.028
40°43'	542022.8946	30.844776	3711.0902	0.005470	1.793
	234691.1298	-0.975641	13.8996	-0.000943	-0.028
40°44'	543873.5812	30.844865	3711.4184	0.005449	1.792
	234632.5913	-0.975973	13.8430	-0.000942	-0.028
40°45'	545724.2731	30.844955	3711.7454	0.005428	1.791
	234574.0330	-0.976305	13.7865	-0.000942	-0.028
40°46'	547574.9703	30.845044	3712.0710	0.005407	1.790
	234515.4546	-0.976638	13.7300	-0.000941	-0.028
40°47'	549425.6730	30.845133	3712.3955	0.005386	1.789
	234456.8564	-0.976970	13.6735	-0.000941	-0.028
40°48'	551276.3810	30.845223	3712.7186	0.005365	1.788
	234398.2382	-0.977302	13.6170	-0.000941	-0.028
40°49'	553127.0943	30.845312	3713.0406	0.005344	1.787
	234339.6001	-0.977634	13.5606	-0.000940	-0.028
40°50'	554977.8131	30.845401	3713.3612	0.005323	1.785
	234280.9420	-0.977966	13.5042	-0.000940	-0.028
40°51'	556828.5371	30.845491	3713.6806	0.005302	1.784
	234222.2641	-0.978298	13.4478	-0.000940	-0.028
40°52'	558679.2666	30.845580	3713.9988	0.005282	1.783
	234163.5662	-0.978630	13.3914	-0.000939	-0.028
40°53'	560530.0014	30.845670	3714.3157	0.005261	1.782
	234104.8484	-0.978961	13.3350	-0.000939	-0.028
40°54'	562380.7416	30.845759	3714.6313	0.005240	1.781
	234046.1107	-0.979293	13.2787	-0.000939	-0.028
40°55'	564231.4871	30.845849	3714.9457	0.005219	1.780
	233987.3532	-0.979625	13.2223	-0.000938	-0.028
40°56'	566082.2381	30.845938	3715.2588	0.005198	1.779
	233928.5757	-0.979956	13.1660	-0.000938	-0.028
40°57'	567932.9943	30.846028	3715.5707	0.005177	1.778
	233869.7783	-0.980287	13.1098	-0.000938	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

MISSOURI Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°58'	569783.7560	30.846117	3715.8813	0.005156	1.776
	233810.9611	-0.980619	13.0535	-0.000937	-0.028
40°59'	571634.5230	30.846206	3716.1906	0.005135	1.775
	233752.1240	-0.980950	12.9973	-0.000937	-0.028
41° 0'	573485.2954	30.846296	3716.4987	0.005114	1.774
	233693.2670	-0.981281	12.9411	-0.000937	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°50'	-0.0000	30.819075	1834.8019	0.018633	24.557
	39846.3705	0.138939	333.4981	0.004621	5.228
35°51'	1849.1445	30.819161	1835.9199	0.018640	24.579
	39854.7069	0.139054	333.7754	0.004627	5.236
35°52'	3698.2942	30.819247	1837.0383	0.018648	24.601
	39863.0501	0.139168	334.0530	0.004633	5.244
35°53'	5547.4490	30.819332	1838.1572	0.018656	24.624
	39871.4002	0.139283	334.3309	0.004639	5.252
35°54'	7396.6089	30.819418	1839.2766	0.018664	24.646
	39879.7572	0.139398	334.6092	0.004645	5.260
35°55'	9245.7740	30.819504	1840.3964	0.018671	24.668
	39888.1210	0.139513	334.8879	0.004651	5.268
35°56'	11094.9442	30.819590	1841.5166	0.018679	24.690
	39896.4918	0.139628	335.1669	0.004657	5.276
35°57'	12944.1196	30.819675	1842.6374	0.018687	24.712
	39904.8695	0.139743	335.4463	0.004663	5.284
35°58'	14793.3001	30.819761	1843.7586	0.018695	24.734
	39913.2541	0.139858	335.7261	0.004669	5.292
35°59'	16642.4858	30.819847	1844.8803	0.018702	24.757
	39921.6455	0.139973	336.0062	0.004675	5.300
36° 0'	18491.6766	30.819933	1846.0024	0.018710	24.779
	39930.0439	0.140089	336.2867	0.004681	5.308
36° 1'	20340.8726	30.820019	1847.1250	0.018718	24.801
	39938.4493	0.140204	336.5675	0.004687	5.316
36° 2'	22190.0737	30.820104	1848.2481	0.018726	24.823
	39946.8615	0.140320	336.8488	0.004693	5.324
36° 3'	24039.2800	30.820190	1849.3716	0.018734	24.846
	39955.2807	0.140435	337.1303	0.004699	5.332
36° 4'	25888.4914	30.820276	1850.4957	0.018741	24.868
	39963.7068	0.140551	337.4123	0.004705	5.340
36° 5'	27737.7080	30.820362	1851.6201	0.018749	24.890
	39972.1399	0.140667	337.6946	0.004711	5.348
36° 6'	29586.9297	30.820448	1852.7451	0.018757	24.913
	39980.5799	0.140783	337.9773	0.004717	5.356
36° 7'	31436.1566	30.820534	1853.8705	0.018765	24.935
	39989.0269	0.140899	338.2603	0.004724	5.364
36° 8'	33285.3886	30.820620	1854.9964	0.018773	24.958
	39997.4809	0.141015	338.5437	0.004730	5.372
36° 9'	35134.6258	30.820706	1856.1228	0.018781	24.980
	40005.9418	0.141132	338.8275	0.004736	5.380
36°10'	36983.8681	30.820792	1857.2496	0.018789	25.003
	40014.4097	0.141248	339.1117	0.004742	5.388
36°11'	38833.1156	30.820878	1858.3769	0.018796	25.025
	40022.8845	0.141364	339.3962	0.004748	5.396

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°12'	40682.3683	30.820964	1859.5047	0.018804	25.048
	40031.3664	0.141481	339.6811	0.004754	5.405
36°13'	42531.6261	30.821050	1860.6330	0.018812	25.070
	40039.8553	0.141598	339.9663	0.004760	5.413
36°14'	44380.8891	30.821136	1861.7617	0.018820	25.093
	40048.3511	0.141714	340.2519	0.004767	5.421
36°15'	46230.1573	30.821222	1862.8909	0.018828	25.115
	40056.8540	0.141831	340.5379	0.004773	5.429
36°16'	48079.4306	30.821308	1864.0206	0.018836	25.138
	40065.3638	0.141948	340.8243	0.004779	5.437
36°17'	49928.7091	30.821394	1865.1508	0.018844	25.161
	40073.8807	0.142065	341.1111	0.004785	5.446
36°18'	51777.9927	30.821480	1866.2814	0.018852	25.183
	40082.4046	0.142182	341.3982	0.004792	5.454
36°19'	53627.2816	30.821566	1867.4125	0.018860	25.206
	40090.9356	0.142300	341.6857	0.004798	5.462
36°20'	55476.5755	30.821653	1868.5441	0.018868	25.229
	40099.4736	0.142417	341.9735	0.004804	5.471
36°21'	57325.8747	30.821739	1869.6762	0.018876	25.251
	40108.0186	0.142534	342.2618	0.004810	5.479
36°22'	59175.1790	30.821825	1870.8087	0.018884	25.274
	40116.5706	0.142652	342.5504	0.004817	5.487
36°23'	61024.4885	30.821911	1871.9417	0.018892	25.297
	40125.1298	0.142770	342.8394	0.004823	5.495
36°24'	62873.8032	30.821997	1873.0752	0.018900	25.320
	40133.6959	0.142887	343.1288	0.004829	5.504
36°25'	64723.1230	30.822083	1874.2092	0.018908	25.342
	40142.2692	0.143005	343.4185	0.004835	5.512
36°26'	66572.4480	30.822170	1875.3437	0.018916	25.365
	40150.8495	0.143123	343.7086	0.004842	5.521
36°27'	68421.7782	30.822256	1876.4786	0.018924	25.388
	40159.4369	0.143241	343.9991	0.004848	5.529
36°28'	70271.1135	30.822342	1877.6140	0.018932	25.411
	40168.0313	0.143359	344.2900	0.004854	5.537
36°29'	72120.4541	30.822429	1878.7499	0.018940	25.434
	40176.6329	0.143478	344.5813	0.004861	5.546
36°30'	73969.7998	30.822515	1879.8863	0.018948	25.457
	40185.2416	0.143596	344.8729	0.004867	5.554
36°31'	75819.1507	30.822601	1881.0232	0.018956	25.480
	40193.8573	0.143714	345.1649	0.004873	5.563
36°32'	77668.5068	30.822687	1882.1605	0.018964	25.503
	40202.4802	0.143833	345.4573	0.004880	5.571
36°33'	79517.8680	30.822774	1883.2984	0.018972	25.526
	40211.1102	0.143952	345.7501	0.004886	5.580

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°34'	81367.2344	30.822860	1884.4367	0.018980	25.549
	40219.7472	0.144070	346.0433	0.004893	5.588
36°35'	83216.6060	30.822947	1885.5755	0.018988	25.572
	40228.3915	0.144189	346.3369	0.004899	5.597
36°36'	85065.9828	30.823033	1886.7148	0.018996	25.595
	40237.0428	0.144308	346.6308	0.004905	5.605
36°37'	86915.3648	30.823119	1887.8546	0.019004	25.618
	40245.7013	0.144427	346.9251	0.004912	5.614
36°38'	88764.7520	30.823206	1888.9948	0.019012	25.641
	40254.3669	0.144546	347.2198	0.004918	5.622
36°39'	90614.1443	30.823292	1890.1356	0.019021	25.664
	40263.0397	0.144666	347.5149	0.004925	5.631
36°40'	92463.5419	30.823379	1891.2768	0.019029	25.688
	40271.7197	0.144785	347.8104	0.004931	5.640
36°41'	94312.9446	30.823465	1892.4185	0.019037	25.711
	40280.4068	0.144904	348.1062	0.004937	5.648
36°42'	96162.3525	30.823552	1893.5607	0.019045	25.734
	40289.1010	0.145024	348.4025	0.004944	5.657
36°43'	98011.7656	30.823638	1894.7034	0.019053	25.757
	40297.8025	0.145144	348.6991	0.004950	5.666
36°44'	99861.1839	30.823725	1895.8466	0.019061	25.781
	40306.5111	0.145264	348.9962	0.004957	5.674
36°45'	101710.6074	30.823811	1896.9903	0.019069	25.804
	40315.2269	0.145383	349.2936	0.004963	5.683
36°46'	103560.0360	30.823898	1898.1345	0.019078	25.827
	40323.9499	0.145503	349.5914	0.004970	5.692
36°47'	105409.4699	30.823984	1899.2791	0.019086	25.851
	40332.6801	0.145623	349.8896	0.004976	5.700
36°48'	107258.9090	30.824071	1900.4243	0.019094	25.874
	40341.4175	0.145744	350.1882	0.004983	5.709
36°49'	109108.3532	30.824158	1901.5699	0.019102	25.897
	40350.1622	0.145864	350.4871	0.004989	5.718
36°50'	110957.8027	30.824244	1902.7161	0.019110	25.921
	40358.9140	0.145984	350.7865	0.004996	5.727
36°51'	112807.2573	30.824331	1903.8627	0.019119	25.944
	40367.6731	0.146105	351.0863	0.005003	5.735
36°52'	114656.7172	30.824417	1905.0098	0.019127	25.968
	40376.4393	0.146225	351.3864	0.005009	5.744
36°53'	116506.1822	30.824504	1906.1574	0.019135	25.991
	40385.2129	0.146346	351.6870	0.005016	5.753
36°54'	118355.6525	30.824591	1907.3055	0.019143	26.015
	40393.9936	0.146467	351.9879	0.005022	5.762
36°55'	120205.1279	30.824677	1908.4541	0.019152	26.038
	40402.7817	0.146588	352.2892	0.005029	5.771

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°56'	122054.6086	30.824764	1909.6032	0.019160	26.062
	40411.5769	0.146709	352.5910	0.005035	5.780
36°57'	123904.0944	30.824851	1910.7528	0.019168	26.085
	40420.3795	0.146830	352.8931	0.005042	5.788
36°58'	125753.5855	30.824938	1911.9029	0.019176	26.109
	40429.1893	0.146951	353.1956	0.005049	5.797
36°59'	127603.0817	30.825024	1913.0535	0.019185	26.133
	40438.0063	0.147073	353.4986	0.005055	5.806
37° 0'	129452.5832	30.825111	1914.2046	0.019193	26.156
	40446.8307	0.147194	353.8019	0.005062	5.815
37° 1'	131302.0898	30.825198	1915.3562	0.019201	26.180
	40455.6623	0.147316	354.1056	0.005069	5.824
37° 2'	133151.6017	30.825285	1916.5083	0.019210	26.204
	40464.5013	0.147437	354.4097	0.005075	5.833
37° 3'	135001.1188	30.825371	1917.6608	0.019218	26.227
	40473.3475	0.147559	354.7142	0.005082	5.842
37° 4'	136850.6411	30.825458	1918.8139	0.019226	26.251
	40482.2010	0.147681	355.0192	0.005089	5.851
37° 5'	138700.1686	30.825545	1919.9675	0.019235	26.275
	40491.0619	0.147803	355.3245	0.005095	5.860
37° 6'	140549.7013	30.825632	1921.1216	0.019243	26.299
	40499.9301	0.147925	355.6302	0.005102	5.869
37° 7'	142399.2392	30.825719	1922.2762	0.019251	26.323
	40508.8055	0.148047	355.9363	0.005109	5.878
37° 8'	144248.7823	30.825806	1923.4312	0.019260	26.346
	40517.6884	0.148169	356.2429	0.005116	5.887
37° 9'	146098.3307	30.825893	1924.5868	0.019268	26.370
	40526.5785	0.148292	356.5498	0.005122	5.896
37°10'	147947.8842	30.825980	1925.7429	0.019277	26.394
	40535.4760	0.148414	356.8571	0.005129	5.906
37°11'	149797.4430	30.826066	1926.8995	0.019285	26.418
	40544.3809	0.148537	357.1649	0.005136	5.915
37°12'	151647.0070	30.826153	1928.0566	0.019293	26.442
	40553.2931	0.148660	357.4730	0.005143	5.924
37°13'	153496.5762	30.826240	1929.2142	0.019302	26.466
	40562.2127	0.148782	357.7816	0.005149	5.933
37°14'	155346.1506	30.826327	1930.3723	0.019310	26.490
	40571.1396	0.148905	358.0905	0.005156	5.942
37°15'	157195.7302	30.826414	1931.5309	0.019319	26.514
	40580.0739	0.149028	358.3999	0.005163	5.951
37°16'	159045.3151	30.826501	1932.6900	0.019327	26.538
	40589.0156	0.149151	358.7097	0.005170	5.961
37°17'	160894.9052	30.826588	1933.8497	0.019336	26.562
	40597.9647	0.149275	359.0199	0.005177	5.970

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°18'	162744.5005	30.826675	1935.0098	0.019344	26.586
	40606.9212	0.149398	359.3305	0.005183	5.979
37°19'	164594.1010	30.826762	1936.1704	0.019352	26.611
	40615.8850	0.149521	359.6415	0.005190	5.988
37°20'	166443.7067	30.826849	1937.3316	0.019361	26.635
	40624.8563	0.149645	359.9529	0.005197	5.998
37°21'	168293.3177	30.826936	1938.4932	0.019369	26.659
	40633.8350	0.149769	360.2647	0.005204	6.007
37°22'	170142.9339	30.827024	1939.6554	0.019378	26.683
	40642.8212	0.149892	360.5769	0.005211	6.016
37°23'	171992.5553	30.827111	1940.8181	0.019386	26.707
	40651.8147	0.150016	360.8896	0.005218	6.026
37°24'	173842.1819	30.827198	1941.9813	0.019395	26.732
	40660.8157	0.150140	361.2027	0.005225	6.035
37°25'	175691.8138	30.827285	1943.1450	0.019403	26.756
	40669.8241	0.150264	361.5161	0.005232	6.044
37°26'	177541.4509	30.827372	1944.3092	0.019412	26.780
	40678.8400	0.150389	361.8300	0.005238	6.054
37°27'	179391.0932	30.827459	1945.4739	0.019421	26.805
	40687.8633	0.150513	362.1443	0.005245	6.063
37°28'	181240.7408	30.827546	1946.6391	0.019429	26.829
	40696.8941	0.150637	362.4591	0.005252	6.073
37°29'	183090.3935	30.827634	1947.8049	0.019438	26.853
	40705.9323	0.150762	362.7742	0.005259	6.082
37°30'	184940.0516	30.827721	1948.9711	0.019446	26.878
	40714.9780	0.150887	363.0897	0.005266	6.092
37°31'	186789.7148	30.827808	1950.1379	0.019455	26.902
	40724.0312	0.151011	363.4057	0.005273	6.101
37°32'	188639.3833	30.827895	1951.3052	0.019463	26.927
	40733.0919	0.151136	363.7221	0.005280	6.111
37°33'	190489.0570	30.827982	1952.4730	0.019472	26.951
	40742.1601	0.151261	364.0389	0.005287	6.120
37°34'	192338.7359	30.828070	1953.6413	0.019481	26.976
	40751.2358	0.151386	364.3562	0.005294	6.130
37°35'	194188.4201	30.828157	1954.8101	0.019489	27.000
	40760.3189	0.151511	364.6738	0.005301	6.139
37°36'	196038.1095	30.828244	1955.9795	0.019498	27.025
	40769.4096	0.151637	364.9919	0.005308	6.149
37°37'	197887.8042	30.828331	1957.1493	0.019506	27.050
	40778.5078	0.151762	365.3104	0.005315	6.158
37°38'	199737.5041	30.828419	1958.3197	0.019515	27.074
	40787.6136	0.151888	365.6293	0.005322	6.168
37°39'	201587.2092	30.828506	1959.4906	0.019524	27.099
	40796.7268	0.152013	365.9486	0.005329	6.178

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°40'	203436.9195	30.828593	1960.6620	0.019532	27.124
	40805.8476	0.152139	366.2684	0.005336	6.187
37°41'	205286.6352	30.828681	1961.8340	0.019541	27.148
	40814.9760	0.152265	366.5886	0.005344	6.197
37°42'	207136.3560	30.828768	1963.0064	0.019550	27.173
	40824.1119	0.152391	366.9092	0.005351	6.207
37°43'	208986.0821	30.828856	1964.1794	0.019558	27.198
	40833.2553	0.152517	367.2302	0.005358	6.216
37°44'	210835.8134	30.828943	1965.3529	0.019567	27.223
	40842.4064	0.152643	367.5517	0.005365	6.226
37°45'	212685.5500	30.829030	1966.5270	0.019576	27.247
	40851.5649	0.152770	367.8736	0.005372	6.236
37°46'	214535.2918	30.829118	1967.7015	0.019585	27.272
	40860.7311	0.152896	368.1959	0.005379	6.245
37°47'	216385.0389	30.829205	1968.8766	0.019593	27.297
	40869.9049	0.153022	368.5186	0.005386	6.255
37°48'	218234.7912	30.829293	1970.0522	0.019602	27.322
	40879.0862	0.153149	368.8418	0.005393	6.265
37°49'	220084.5487	30.829380	1971.2283	0.019611	27.347
	40888.2752	0.153276	369.1654	0.005401	6.275
37°50'	221934.3115	30.829468	1972.4049	0.019619	27.372
	40897.4717	0.153403	369.4895	0.005408	6.285
37°51'	223784.0796	30.829555	1973.5821	0.019628	27.397
	40906.6759	0.153530	369.8139	0.005415	6.295
37°52'	225633.8529	30.829642	1974.7598	0.019637	27.422
	40915.8877	0.153657	370.1388	0.005422	6.304
37°53'	227483.6314	30.829730	1975.9380	0.019646	27.447
	40925.1071	0.153784	370.4642	0.005429	6.314
37°54'	229333.4152	30.829818	1977.1168	0.019655	27.472
	40934.3341	0.153911	370.7899	0.005437	6.324
37°55'	231183.2043	30.829905	1978.2960	0.019663	27.497
	40943.5688	0.154039	371.1161	0.005444	6.334
37°56'	233032.9986	30.829993	1979.4758	0.019672	27.522
	40952.8111	0.154166	371.4427	0.005451	6.344
37°57'	234882.7981	30.830080	1980.6562	0.019681	27.547
	40962.0611	0.154294	371.7698	0.005458	6.354
37°58'	236732.6030	30.830168	1981.8370	0.019690	27.572
	40971.3187	0.154422	372.0973	0.005466	6.364
37°59'	238582.4130	30.830255	1983.0184	0.019699	27.598
	40980.5840	0.154550	372.4253	0.005473	6.374
38° 0'	240432.2283	30.830343	1984.2003	0.019707	27.623
	40989.8570	0.154678	372.7536	0.005480	6.384
38° 1'	242282.0489	30.830431	1985.3828	0.019716	27.648
	40999.1376	0.154806	373.0824	0.005488	6.394

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38° 2'	244131.8748	30.830518	1986.5657	0.019725	27.673
	41008.4260	0.154934	373.4117	0.005495	6.404
38° 3'	245981.7058	30.830606	1987.7493	0.019734	27.699
	41017.7220	0.155062	373.7414	0.005502	6.414
38° 4'	247831.5422	30.830693	1988.9333	0.019743	27.724
	41027.0257	0.155191	374.0715	0.005510	6.424
38° 5'	249681.3838	30.830781	1990.1179	0.019752	27.749
	41036.3372	0.155319	374.4021	0.005517	6.435
38° 6'	251531.2307	30.830869	1991.3030	0.019761	27.775
	41045.6563	0.155448	374.7331	0.005524	6.445
38° 7'	253381.0828	30.830957	1992.4886	0.019770	27.800
	41054.9832	0.155577	375.0646	0.005532	6.455
38° 8'	255230.9402	30.831044	1993.6748	0.019779	27.826
	41064.3178	0.155706	375.3965	0.005539	6.465
38° 9'	257080.8028	30.831132	1994.8615	0.019787	27.851
	41073.6601	0.155835	375.7288	0.005546	6.475
38°10'	258930.6708	30.831220	1996.0488	0.019796	27.876
	41083.0102	0.155964	376.0616	0.005554	6.485
38°11'	260780.5439	30.831307	1997.2366	0.019805	27.902
	41092.3680	0.156093	376.3948	0.005561	6.496
38°12'	262630.4224	30.831395	1998.4249	0.019814	27.928
	41101.7336	0.156222	376.7285	0.005569	6.506
38°13'	264480.3061	30.831483	1999.6137	0.019823	27.953
	41111.1069	0.156352	377.0626	0.005576	6.516
38°14'	266330.1951	30.831571	2000.8031	0.019832	27.979
	41120.4880	0.156481	377.3972	0.005584	6.527
38°15'	268180.0893	30.831659	2001.9931	0.019841	28.004
	41129.8769	0.156611	377.7322	0.005591	6.537
38°16'	270029.9888	30.831746	2003.1836	0.019850	28.030
	41139.2736	0.156741	378.0677	0.005599	6.547
38°17'	271879.8936	30.831834	2004.3746	0.019859	28.056
	41148.6780	0.156871	378.4036	0.005606	6.558
38°18'	273729.8037	30.831922	2005.5661	0.019868	28.081
	41158.0903	0.157001	378.7399	0.005614	6.568
38°19'	275579.7190	30.832010	2006.7582	0.019877	28.107
	41167.5103	0.157131	379.0768	0.005621	6.578
38°20'	277429.6396	30.832098	2007.9509	0.019886	28.133
	41176.9382	0.157261	379.4140	0.005629	6.589
38°21'	279279.5654	30.832186	2009.1440	0.019895	28.159
	41186.3739	0.157392	379.7517	0.005636	6.599
38°22'	281129.4966	30.832273	2010.3378	0.019904	28.185
	41195.8174	0.157522	380.0899	0.005644	6.610
38°23'	282979.4330	30.832361	2011.5320	0.019914	28.210
	41205.2687	0.157653	380.4285	0.005651	6.620

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°24'	284829.3746	30.832449	2012.7268	0.019923	28.236
	41214.7279	0.157784	380.7676	0.005659	6.631
38°25'	286679.3216	30.832537	2013.9222	0.019932	28.262
	41224.1949	0.157915	381.1072	0.005666	6.641
38°26'	288529.2738	30.832625	2015.1181	0.019941	28.288
	41233.6698	0.158046	381.4471	0.005674	6.652
38°27'	290379.2313	30.832713	2016.3145	0.019950	28.314
	41243.1525	0.158177	381.7876	0.005682	6.662
38°28'	292229.1941	30.832801	2017.5115	0.019959	28.340
	41252.6431	0.158308	382.1285	0.005689	6.673
38°29'	294079.1622	30.832889	2018.7091	0.019968	28.366
	41262.1416	0.158439	382.4698	0.005697	6.684
38°30'	295929.1355	30.832977	2019.9072	0.019977	28.392
	41271.6480	0.158571	382.8117	0.005705	6.694
38°31'	297779.1141	30.833065	2021.1058	0.019986	28.418
	41281.1622	0.158702	383.1539	0.005712	6.705
38°32'	299629.0980	30.833153	2022.3050	0.019996	28.444
	41290.6843	0.158834	383.4967	0.005720	6.715
38°33'	301479.0872	30.833241	2023.5047	0.020005	28.471
	41300.2144	0.158966	383.8399	0.005728	6.726
38°34'	303329.0817	30.833329	2024.7050	0.020014	28.497
	41309.7523	0.159098	384.1835	0.005735	6.737
38°35'	305179.0814	30.833417	2025.9058	0.020023	28.523
	41319.2982	0.159230	384.5277	0.005743	6.748
38°36'	307029.0864	30.833505	2027.1072	0.020032	28.549
	41328.8520	0.159362	384.8722	0.005751	6.758
38°37'	308879.0967	30.833593	2028.3091	0.020041	28.575
	41338.4137	0.159494	385.2173	0.005759	6.769
38°38'	310729.1123	30.833681	2029.5116	0.020051	28.602
	41347.9834	0.159627	385.5628	0.005766	6.780
38°39'	312579.1332	30.833769	2030.7147	0.020060	28.628
	41357.5610	0.159759	385.9088	0.005774	6.791
38°40'	314429.1594	30.833857	2031.9183	0.020069	28.654
	41367.1465	0.159892	386.2552	0.005782	6.802
38°41'	316279.1908	30.833946	2033.1224	0.020078	28.681
	41376.7400	0.160025	386.6021	0.005790	6.812
38°42'	318129.2275	30.834034	2034.3271	0.020088	28.707
	41386.3415	0.160158	386.9495	0.005797	6.823
38°43'	319979.2696	30.834122	2035.5324	0.020097	28.734
	41395.9510	0.160291	387.2973	0.005805	6.834
38°44'	321829.3169	30.834210	2036.7382	0.020106	28.760
	41405.5684	0.160424	387.6457	0.005813	6.845
38°45'	323679.3695	30.834298	2037.9445	0.020115	28.786
	41415.1938	0.160557	387.9944	0.005821	6.856

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°46'	325529.4273	30.834386	2039.1515	0.020125	28.813
	41424.8273	0.160690	388.3437	0.005829	6.867
38°47'	327379.4905	30.834474	2040.3589	0.020134	28.840
	41434.4687	0.160824	388.6934	0.005837	6.878
38°48'	329229.5590	30.834563	2041.5670	0.020143	28.866
	41444.1181	0.160958	389.0436	0.005844	6.889
38°49'	331079.6328	30.834651	2042.7756	0.020153	28.893
	41453.7756	0.161091	389.3943	0.005852	6.900
38°50'	332929.7118	30.834739	2043.9847	0.020162	28.919
	41463.4410	0.161225	389.7454	0.005860	6.911
38°51'	334779.7962	30.834827	2045.1945	0.020171	28.946
	41473.1145	0.161359	390.0970	0.005868	6.922
38°52'	336629.8858	30.834916	2046.4047	0.020181	28.973
	41482.7961	0.161493	390.4491	0.005876	6.933
38°53'	338479.9807	30.835004	2047.6156	0.020190	28.999
	41492.4857	0.161627	390.8017	0.005884	6.944
38°54'	340330.0810	30.835092	2048.8270	0.020199	29.026
	41502.1833	0.161762	391.1547	0.005892	6.956
38°55'	342180.1865	30.835180	2050.0389	0.020209	29.053
	41511.8890	0.161896	391.5083	0.005900	6.967
38°56'	344030.2973	30.835269	2051.2515	0.020218	29.080
	41521.6028	0.162031	391.8623	0.005908	6.978
38°57'	345880.4134	30.835357	2052.4645	0.020228	29.107
	41531.3247	0.162166	392.2167	0.005916	6.989
38°58'	347730.5349	30.835445	2053.6782	0.020237	29.133
	41541.0546	0.162300	392.5717	0.005924	7.000
38°59'	349580.6616	30.835534	2054.8924	0.020246	29.160
	41550.7926	0.162435	392.9271	0.005932	7.012
39° 0'	351430.7936	30.835622	2056.1072	0.020256	29.187
	41560.5387	0.162570	393.2830	0.005940	7.023
39° 1'	353280.9309	30.835710	2057.3225	0.020265	29.214
	41570.2930	0.162706	393.6394	0.005948	7.034
39° 2'	355131.0735	30.835799	2058.5385	0.020275	29.241
	41580.0553	0.162841	393.9963	0.005956	7.045
39° 3'	356981.2214	30.835887	2059.7549	0.020284	29.268
	41589.8258	0.162976	394.3537	0.005964	7.057
39° 4'	358831.3747	30.835975	2060.9720	0.020294	29.295
	41599.6044	0.163112	394.7115	0.005972	7.068
39° 5'	360681.5332	30.836064	2062.1896	0.020303	29.322
	41609.3911	0.163248	395.0699	0.005980	7.080
39° 6'	362531.6970	30.836152	2063.4078	0.020313	29.349
	41619.1859	0.163384	395.4287	0.005988	7.091
39° 7'	364381.8662	30.836241	2064.6265	0.020322	29.377
	41628.9890	0.163520	395.7880	0.005997	7.102

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39° 8'	366232.0406	30.836329	2065.8459	0.020332	29.404
	41638.8001	0.163656	396.1478	0.006005	7.114
39° 9'	368082.2203	30.836417	2067.0658	0.020341	29.431
	41648.6195	0.163792	396.5081	0.006013	7.125
39°10'	369932.4054	30.836506	2068.2862	0.020351	29.458
	41658.4470	0.163928	396.8689	0.006021	7.137
39°11'	371782.5957	30.836594	2069.5073	0.020360	29.485
	41668.2827	0.164065	397.2301	0.006029	7.148
39°12'	373632.7914	30.836683	2070.7289	0.020370	29.513
	41678.1265	0.164201	397.5919	0.006037	7.160
39°13'	375482.9924	30.836771	2071.9511	0.020379	29.540
	41687.9786	0.164338	397.9541	0.006046	7.171
39°14'	377333.1987	30.836860	2073.1738	0.020389	29.567
	41697.8389	0.164475	398.3168	0.006054	7.183
39°15'	379183.4103	30.836948	2074.3972	0.020398	29.595
	41707.7074	0.164612	398.6801	0.006062	7.195
39°16'	381033.6272	30.837037	2075.6211	0.020408	29.622
	41717.5841	0.164749	399.0438	0.006070	7.206
39°17'	382883.8494	30.837125	2076.8456	0.020418	29.650
	41727.4690	0.164886	399.4080	0.006079	7.218
39°18'	384734.0769	30.837214	2078.0706	0.020427	29.677
	41737.3621	0.165023	399.7727	0.006087	7.230
39°19'	386584.3097	30.837302	2079.2963	0.020437	29.705
	41747.2635	0.165161	400.1379	0.006095	7.241
39°20'	388434.5479	30.837391	2080.5225	0.020447	29.732
	41757.1732	0.165298	400.5036	0.006103	7.253
39°21'	390284.7913	30.837480	2081.7493	0.020456	29.760
	41767.0911	0.165436	400.8698	0.006112	7.265
39°22'	392135.0401	30.837568	2082.9766	0.020466	29.787
	41777.0172	0.165574	401.2365	0.006120	7.276
39°23'	393985.2942	30.837657	2084.2046	0.020476	29.815
	41786.9517	0.165712	401.6037	0.006128	7.288
39°24'	395835.5536	30.837745	2085.4331	0.020485	29.843
	41796.8944	0.165850	401.9714	0.006137	7.300
39°25'	397685.8183	30.837834	2086.6622	0.020495	29.870
	41806.8454	0.165988	402.3396	0.006145	7.312
39°26'	399536.0884	30.837923	2087.8919	0.020505	29.898
	41816.8046	0.166126	402.7083	0.006153	7.324
39°27'	401386.3637	30.838011	2089.1222	0.020514	29.926
	41826.7722	0.166265	403.0775	0.006162	7.336
39°28'	403236.6444	30.838100	2090.3531	0.020524	29.954
	41836.7481	0.166404	403.4472	0.006170	7.348
39°29'	405086.9304	30.838189	2091.5845	0.020534	29.981
	41846.7323	0.166542	403.8174	0.006179	7.360

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°30'	406937.2217	30.838277	2092.8165	0.020543	30.009
	41856.7249	0.166681	404.1882	0.006187	7.372
39°31'	408787.5183	30.838366	2094.0491	0.020553	30.037
	41866.7257	0.166820	404.5594	0.006195	7.383
39°32'	410637.8203	30.838455	2095.2823	0.020563	30.065
	41876.7349	0.166959	404.9311	0.006204	7.395
39°33'	412488.1275	30.838543	2096.5161	0.020573	30.093
	41886.7525	0.167098	405.3033	0.006212	7.408
39°34'	414338.4401	30.838632	2097.7505	0.020583	30.121
	41896.7784	0.167238	405.6761	0.006221	7.420
39°35'	416188.7581	30.838721	2098.9854	0.020592	30.149
	41906.8127	0.167377	406.0493	0.006229	7.432
39°36'	418039.0813	30.838809	2100.2210	0.020602	30.177
	41916.8553	0.167517	406.4231	0.006238	7.444
39°37'	419889.4099	30.838898	2101.4571	0.020612	30.205
	41926.9063	0.167657	406.7974	0.006246	7.456
39°38'	421739.7437	30.838987	2102.6938	0.020622	30.233
	41936.9657	0.167797	407.1722	0.006255	7.468
39°39'	423590.0830	30.839076	2103.9311	0.020632	30.261
	41947.0335	0.167937	407.5475	0.006264	7.480
39°40'	425440.4275	30.839164	2105.1690	0.020641	30.289
	41957.1097	0.168077	407.9233	0.006272	7.492
39°41'	427290.7774	30.839253	2106.4075	0.020651	30.318
	41967.1943	0.168217	408.2996	0.006281	7.505
39°42'	429141.1325	30.839342	2107.6466	0.020661	30.346
	41977.2873	0.168357	408.6764	0.006289	7.517
39°43'	430991.4931	30.839431	2108.8863	0.020671	30.374
	41987.3888	0.168498	409.0538	0.006298	7.529
39°44'	432841.8589	30.839520	2110.1265	0.020681	30.402
	41997.4987	0.168639	409.4317	0.006307	7.541
39°45'	434692.2301	30.839608	2111.3674	0.020691	30.431
	42007.6170	0.168779	409.8101	0.006315	7.554
39°46'	436542.6066	30.839697	2112.6088	0.020701	30.459
	42017.7437	0.168920	410.1890	0.006324	7.566
39°47'	438392.9884	30.839786	2113.8509	0.020711	30.488
	42027.8790	0.169061	410.5684	0.006332	7.578
39°48'	440243.3756	30.839875	2115.0935	0.020721	30.516
	42038.0227	0.169203	410.9484	0.006341	7.591
39°49'	442093.7681	30.839964	2116.3368	0.020731	30.544
	42048.1748	0.169344	411.3288	0.006350	7.603
39°50'	443944.1659	30.840053	2117.5806	0.020741	30.573
	42058.3355	0.169485	411.7098	0.006359	7.616
39°51'	445794.5690	30.840141	2118.8250	0.020751	30.601
	42068.5046	0.169627	412.0913	0.006367	7.628

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°52'	447644.9775	30.840230	2120.0701	0.020760	30.630
	42078.6822	0.169769	412.4734	0.006376	7.641
39°53'	449495.3913	30.840319	2121.3157	0.020770	30.659
	42088.8683	0.169911	412.8559	0.006385	7.653
39°54'	451345.8105	30.840408	2122.5619	0.020780	30.687
	42099.0630	0.170053	413.2390	0.006394	7.666
39°55'	453196.2350	30.840497	2123.8088	0.020790	30.716
	42109.2661	0.170195	413.6226	0.006402	7.678
39°56'	455046.6648	30.840586	2125.0562	0.020800	30.744
	42119.4778	0.170337	414.0068	0.006411	7.691
39°57'	456897.1000	30.840675	2126.3042	0.020811	30.773
	42129.6980	0.170479	414.3914	0.006420	7.704
39°58'	458747.5405	30.840764	2127.5528	0.020821	30.802
	42139.9268	0.170622	414.7766	0.006429	7.716
39°59'	460597.9863	30.840853	2128.8021	0.020831	30.831
	42150.1641	0.170764	415.1624	0.006438	7.729
40° 0'	462448.4375	30.840942	2130.0519	0.020841	30.860
	42160.4099	0.170907	415.5486	0.006446	7.742
40° 1'	464298.8940	30.841031	2131.3024	0.020851	30.888
	42170.6644	0.171050	415.9354	0.006455	7.754
40° 2'	466149.3558	30.841120	2132.5534	0.020861	30.917
	42180.9274	0.171193	416.3227	0.006464	7.767
40° 3'	467999.8230	30.841209	2133.8050	0.020871	30.946
	42191.1990	0.171336	416.7106	0.006473	7.780
40° 4'	469850.2955	30.841298	2135.0573	0.020881	30.975
	42201.4792	0.171480	417.0990	0.006482	7.793
40° 5'	471700.7734	30.841387	2136.3102	0.020891	31.004
	42211.7680	0.171623	417.4879	0.006491	7.805
40° 6'	473551.2566	30.841476	2137.5636	0.020901	31.033
	42222.0653	0.171767	417.8773	0.006500	7.818
40° 7'	475401.7451	30.841565	2138.8177	0.020911	31.062
	42232.3714	0.171911	418.2673	0.006509	7.831
40° 8'	477252.2390	30.841654	2140.0724	0.020922	31.091
	42242.6860	0.172054	418.6579	0.006518	7.844
40° 9'	479102.7383	30.841743	2141.3277	0.020932	31.120
	42253.0092	0.172198	419.0489	0.006527	7.857
40°10'	480953.2428	30.841832	2142.5836	0.020942	31.150
	42263.3411	0.172342	419.4405	0.006536	7.870
40°11'	482803.7527	30.841921	2143.8401	0.020952	31.179
	42273.6817	0.172487	419.8327	0.006545	7.883
40°12'	484654.2680	30.842010	2145.0972	0.020962	31.208
	42284.0309	0.172631	420.2254	0.006554	7.896
40°13'	486504.7886	30.842099	2146.3550	0.020972	31.237
	42294.3888	0.172776	420.6186	0.006563	7.909

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°14'	488355.3146	30.842188	2147.6133	0.020983	31.266
	42304.7553	0.172920	421.0124	0.006572	7.922
40°15'	490205.8459	30.842277	2148.8723	0.020993	31.296
	42315.1305	0.173065	421.4067	0.006581	7.935
40°16'	492056.3825	30.842366	2150.1319	0.021003	31.325
	42325.5144	0.173210	421.8016	0.006590	7.948
40°17'	493906.9245	30.842456	2151.3921	0.021013	31.354
	42335.9071	0.173355	422.1970	0.006599	7.961
40°18'	495757.4718	30.842545	2152.6529	0.021024	31.384
	42346.3084	0.173500	422.5929	0.006608	7.975
40°19'	497608.0245	30.842634	2153.9143	0.021034	31.413
	42356.7184	0.173646	422.9894	0.006618	7.988
40°20'	499458.5825	30.842723	2155.1763	0.021044	31.443
	42367.1371	0.173791	423.3865	0.006627	8.001
40°21'	501309.1459	30.842812	2156.4390	0.021055	31.472
	42377.5646	0.173937	423.7841	0.006636	8.014
40°22'	503159.7146	30.842901	2157.7022	0.021065	31.502
	42388.0008	0.174083	424.1822	0.006645	8.027
40°23'	505010.2887	30.842990	2158.9661	0.021075	31.531
	42398.4458	0.174229	424.5809	0.006654	8.041
40°24'	506860.8682	30.843080	2160.2306	0.021086	31.561
	42408.8995	0.174375	424.9802	0.006663	8.054
40°25'	508711.4529	30.843169	2161.4958	0.021096	31.591
	42419.3620	0.174521	425.3800	0.006673	8.067
40°26'	510562.0431	30.843258	2162.7615	0.021106	31.620
	42429.8332	0.174667	425.7803	0.006682	8.081
40°27'	512412.6385	30.843347	2164.0279	0.021117	31.650
	42440.3133	0.174814	426.1813	0.006691	8.094
40°28'	514263.2394	30.843437	2165.2949	0.021127	31.680
	42450.8021	0.174960	426.5827	0.006700	8.108
40°29'	516113.8456	30.843526	2166.5625	0.021137	31.710
	42461.2997	0.175107	426.9848	0.006710	8.121
40°30'	517964.4571	30.843615	2167.8307	0.021148	31.740
	42471.8061	0.175254	427.3873	0.006719	8.135
40°31'	519815.0740	30.843704	2169.0996	0.021158	31.769
	42482.3213	0.175401	427.7905	0.006728	8.148
40°32'	521665.6963	30.843793	2170.3691	0.021169	31.799
	42492.8454	0.175548	428.1942	0.006738	8.162
40°33'	523516.3239	30.843883	2171.6392	0.021179	31.829
	42503.3783	0.175695	428.5984	0.006747	8.175
40°34'	525366.9568	30.843972	2172.9100	0.021189	31.859
	42513.9200	0.175843	429.0033	0.006756	8.189
40°35'	527217.5952	30.844061	2174.1813	0.021200	31.889
	42524.4705	0.175990	429.4086	0.006766	8.202

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°36'	529068.2388	30.844151	2175.4533	0.021210	31.919
	42535.0300	0.176138	429.8146	0.006775	8.216
40°37'	530918.8879	30.844240	2176.7259	0.021221	31.949
	42545.5982	0.176286	430.2211	0.006785	8.230
40°38'	532769.5423	30.844329	2177.9992	0.021231	31.979
	42556.1754	0.176434	430.6282	0.006794	8.243
40°39'	534620.2020	30.844418	2179.2731	0.021242	32.010
	42566.7614	0.176582	431.0358	0.006803	8.257
40°40'	536470.8671	30.844508	2180.5476	0.021252	32.040
	42577.3563	0.176730	431.4440	0.006813	8.271
40°41'	538321.5376	30.844597	2181.8227	0.021263	32.070
	42587.9602	0.176879	431.8528	0.006822	8.285
40°42'	540172.2134	30.844686	2183.0985	0.021273	32.100
	42598.5729	0.177027	432.2621	0.006832	8.299
40°43'	542022.8946	30.844776	2184.3749	0.021284	32.130
	42609.1945	0.177176	432.6721	0.006841	8.312
40°44'	543873.5812	30.844865	2185.6519	0.021294	32.161
	42619.8251	0.177325	433.0825	0.006851	8.326
40°45'	545724.2731	30.844955	2186.9296	0.021305	32.191
	42630.4646	0.177474	433.4936	0.006860	8.340
40°46'	547574.9703	30.845044	2188.2079	0.021316	32.222
	42641.1130	0.177623	433.9052	0.006870	8.354
40°47'	549425.6730	30.845133	2189.4868	0.021326	32.252
	42651.7704	0.177772	434.3174	0.006880	8.368
40°48'	551276.3810	30.845223	2190.7664	0.021337	32.282
	42662.4367	0.177922	434.7302	0.006889	8.382
40°49'	553127.0943	30.845312	2192.0466	0.021347	32.313
	42673.1120	0.178071	435.1436	0.006899	8.396
40°50'	554977.8131	30.845401	2193.3275	0.021358	32.343
	42683.7963	0.178221	435.5575	0.006908	8.410
40°51'	556828.5371	30.845491	2194.6089	0.021369	32.374
	42694.4895	0.178371	435.9720	0.006918	8.424
40°52'	558679.2666	30.845580	2195.8911	0.021379	32.405
	42705.1918	0.178521	436.3871	0.006928	8.438
40°53'	560530.0014	30.845670	2197.1738	0.021390	32.435
	42715.9030	0.178671	436.8028	0.006937	8.452
40°54'	562380.7416	30.845759	2198.4572	0.021401	32.466
	42726.6233	0.178821	437.2190	0.006947	8.467
40°55'	564231.4871	30.845849	2199.7413	0.021411	32.497
	42737.3525	0.178972	437.6358	0.006957	8.481
40°56'	566082.2381	30.845938	2201.0260	0.021422	32.527
	42748.0908	0.179122	438.0532	0.006967	8.495
40°57'	567932.9943	30.846028	2202.3113	0.021433	32.558
	42758.8382	0.179273	438.4712	0.006976	8.509

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

MISSOURI Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°58'	569783.7560	30.846117	2203.5973	0.021444	32.589
	42769.5945	0.179424	438.8898	0.006986	8.524
40°59'	571634.5230	30.846206	2204.8839	0.021454	32.620
	42780.3599	0.179575	439.3090	0.006996	8.538
41° 0'	573485.2954	30.846296	2206.1711	0.021465	32.651
	42791.1344	0.179726	439.7287	0.007006	8.552

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°50'	-0.0000	30.819075	5854.2943	0.039301	3.055	
			23327.2381	0.237971	289.329	0.012319
35°51'	1849.1445	30.819161	5856.6524	0.039293	3.055	
			23341.5164	0.238071	289.628	0.012319
35°52'	3698.2942	30.819247	5859.0099	0.039284	3.055	
			23355.8007	0.238171	289.927	0.012319
35°53'	5547.4490	30.819332	5861.3670	0.039276	3.055	
			23370.0909	0.238271	290.227	0.012318
35°54'	7396.6089	30.819418	5863.7236	0.039268	3.055	
			23384.3872	0.238371	290.527	0.012318
35°55'	9245.7740	30.819504	5866.0796	0.039260	3.055	
			23398.6895	0.238471	290.827	0.012318
35°56'	11094.9442	30.819590	5868.4352	0.039251	3.054	
			23412.9977	0.238571	291.128	0.012318
35°57'	12944.1196	30.819675	5870.7903	0.039243	3.054	
			23427.3120	0.238672	291.429	0.012318
35°58'	14793.3001	30.819761	5873.1449	0.039235	3.054	
			23441.6323	0.238772	291.730	0.012318
35°59'	16642.4858	30.819847	5875.4989	0.039226	3.054	
			23455.9586	0.238872	292.032	0.012318
36° 0'	18491.6766	30.819933	5877.8525	0.039218	3.054	
			23470.2909	0.238973	292.334	0.012318
36° 1'	20340.8726	30.820019	5880.2056	0.039210	3.054	
			23484.6293	0.239074	292.637	0.012318
36° 2'	22190.0737	30.820104	5882.5582	0.039202	3.054	
			23498.9738	0.239175	292.940	0.012318
36° 3'	24039.2800	30.820190	5884.9103	0.039193	3.054	
			23513.3242	0.239276	293.243	0.012318
36° 4'	25888.4914	30.820276	5887.2619	0.039185	3.054	
			23527.6808	0.239377	293.546	0.012318
36° 5'	27737.7080	30.820362	5889.6130	0.039177	3.054	
			23542.0434	0.239478	293.850	0.012318
36° 6'	29586.9297	30.820448	5891.9636	0.039168	3.054	
			23556.4121	0.239579	294.155	0.012318
36° 7'	31436.1566	30.820534	5894.3137	0.039160	3.054	
			23570.7868	0.239680	294.459	0.012318
36° 8'	33285.3886	30.820620	5896.6633	0.039152	3.053	
			23585.1676	0.239782	294.764	0.012318
36° 9'	35134.6258	30.820706	5899.0124	0.039143	3.053	
			23599.5545	0.239883	295.069	0.012318
36°10'	36983.8681	30.820792	5901.3610	0.039135	3.053	
			23613.9476	0.239985	295.375	0.012318
36°11'	38833.1156	30.820878	5903.7091	0.039127	3.053	
			23628.3467	0.240087	295.681	0.012318

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°12'	40682.3683	30.820964	5906.0567	0.039118	3.053	
			23642.7519	0.240189	295.988	0.012318
36°13'	42531.6261	30.821050	5908.4038	0.039110	3.053	
			23657.1632	0.240291	296.294	0.012318
36°14'	44380.8891	30.821136	5910.7504	0.039102	3.053	
			23671.5807	0.240393	296.601	0.012318
36°15'	46230.1573	30.821222	5913.0965	0.039093	3.053	
			23686.0042	0.240495	296.909	0.012317
36°16'	48079.4306	30.821308	5915.4421	0.039085	3.053	
			23700.4339	0.240597	297.217	0.012317
36°17'	49928.7091	30.821394	5917.7872	0.039077	3.052	
			23714.8698	0.240700	297.525	0.012317
36°18'	51777.9927	30.821480	5920.1318	0.039068	3.052	
			23729.3118	0.240802	297.834	0.012317
36°19'	53627.2816	30.821566	5922.4759	0.039060	3.052	
			23743.7599	0.240905	298.143	0.012317
36°20'	55476.5755	30.821653	5924.8195	0.039052	3.052	
			23758.2142	0.241008	298.452	0.012317
36°21'	57325.8747	30.821739	5927.1626	0.039043	3.052	
			23772.6747	0.241111	298.762	0.012317
36°22'	59175.1790	30.821825	5929.5052	0.039035	3.052	
			23787.1413	0.241214	299.072	0.012317
36°23'	61024.4885	30.821911	5931.8473	0.039027	3.052	
			23801.6142	0.241317	299.382	0.012317
36°24'	62873.8032	30.821997	5934.1889	0.039018	3.052	
			23816.0932	0.241420	299.693	0.012317
36°25'	64723.1230	30.822083	5936.5300	0.039010	3.052	
			23830.5783	0.241523	300.004	0.012317
36°26'	66572.4480	30.822170	5938.8705	0.039001	3.051	
			23845.0697	0.241626	300.315	0.012317
36°27'	68421.7782	30.822256	5941.2106	0.038993	3.051	
			23859.5673	0.241730	300.627	0.012317
36°28'	70271.1135	30.822342	5943.5502	0.038985	3.051	
			23874.0711	0.241834	300.940	0.012317
36°29'	72120.4541	30.822429	5945.8893	0.038976	3.051	
			23888.5811	0.241937	301.252	0.012317
36°30'	73969.7998	30.822515	5948.2279	0.038968	3.051	
			23903.0974	0.242041	301.565	0.012317
36°31'	75819.1507	30.822601	5950.5659	0.038959	3.051	
			23917.6198	0.242145	301.879	0.012317
36°32'	77668.5068	30.822687	5952.9035	0.038951	3.051	
			23932.1485	0.242249	302.192	0.012317
36°33'	79517.8680	30.822774	5955.2406	0.038943	3.050	
			23946.6835	0.242353	302.506	0.012317

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°34'	81367.2344	30.822860	5957.5771	0.038934	3.050	
			23961.2247	0.242457	302.821	0.012317
36°35'	83216.6060	30.822947	5959.9132	0.038926	3.050	
			23975.7721	0.242562	303.136	0.012317
36°36'	85065.9828	30.823033	5962.2487	0.038917	3.050	
			23990.3258	0.242666	303.451	0.012317
36°37'	86915.3648	30.823119	5964.5838	0.038909	3.050	
			24004.8858	0.242771	303.767	0.012316
36°38'	88764.7520	30.823206	5966.9183	0.038901	3.050	
			24019.4521	0.242876	304.083	0.012316
36°39'	90614.1443	30.823292	5969.2524	0.038892	3.050	
			24034.0246	0.242980	304.399	0.012316
36°40'	92463.5419	30.823379	5971.5859	0.038884	3.050	
			24048.6034	0.243085	304.716	0.012316
36°41'	94312.9446	30.823465	5973.9189	0.038875	3.049	
			24063.1885	0.243190	305.033	0.012316
36°42'	96162.3525	30.823552	5976.2515	0.038867	3.049	
			24077.7799	0.243295	305.350	0.012316
36°43'	98011.7656	30.823638	5978.5835	0.038859	3.049	
			24092.3777	0.243401	305.668	0.012316
36°44'	99861.1839	30.823725	5980.9150	0.038850	3.049	
			24106.9817	0.243506	305.986	0.012316
36°45'	101710.6074	30.823811	5983.2460	0.038842	3.049	
			24121.5920	0.243611	306.305	0.012316
36°46'	103560.0360	30.823898	5985.5765	0.038833	3.049	
			24136.2087	0.243717	306.624	0.012316
36°47'	105409.4699	30.823984	5987.9065	0.038825	3.048	
			24150.8317	0.243823	306.943	0.012316
36°48'	107258.9090	30.824071	5990.2360	0.038816	3.048	
			24165.4611	0.243928	307.263	0.012316
36°49'	109108.3532	30.824158	5992.5650	0.038808	3.048	
			24180.0968	0.244034	307.583	0.012316
36°50'	110957.8027	30.824244	5994.8934	0.038799	3.048	
			24194.7389	0.244140	307.904	0.012316
36°51'	112807.2573	30.824331	5997.2214	0.038791	3.048	
			24209.3873	0.244246	308.225	0.012316
36°52'	114656.7172	30.824417	5999.5489	0.038783	3.048	
			24224.0421	0.244353	308.546	0.012316
36°53'	116506.1822	30.824504	6001.8758	0.038774	3.047	
			24238.7032	0.244459	308.868	0.012316
36°54'	118355.6525	30.824591	6004.2023	0.038766	3.047	
			24253.3708	0.244565	309.190	0.012316
36°55'	120205.1279	30.824677	6006.5282	0.038757	3.047	
			24268.0447	0.244672	309.512	0.012316

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°56'	122054.6086	30.824764	6008.8536	0.038749	3.047	
			24282.7250	0.244779	309.835	0.012316
36°57'	123904.0944	30.824851	6011.1785	0.038740	3.047	
			24297.4117	0.244885	310.158	0.012316
36°58'	125753.5855	30.824938	6013.5029	0.038732	3.047	
			24312.1049	0.244992	310.482	0.012316
36°59'	127603.0817	30.825024	6015.8268	0.038723	3.046	
			24326.8044	0.245099	310.806	0.012315
37° 0'	129452.5832	30.825111	6018.1502	0.038715	3.046	
			24341.5103	0.245206	311.130	0.012315
37° 1'	131302.0898	30.825198	6020.4731	0.038706	3.046	
			24356.2227	0.245314	311.455	0.012315
37° 2'	133151.6017	30.825285	6022.7955	0.038698	3.046	
			24370.9416	0.245421	311.780	0.012315
37° 3'	135001.1188	30.825371	6025.1173	0.038689	3.046	
			24385.6668	0.245528	312.106	0.012315
37° 4'	136850.6411	30.825458	6027.4387	0.038681	3.046	
			24400.3985	0.245636	312.432	0.012315
37° 5'	138700.1686	30.825545	6029.7595	0.038672	3.045	
			24415.1367	0.245744	312.758	0.012315
37° 6'	140549.7013	30.825632	6032.0799	0.038664	3.045	
			24429.8813	0.245852	313.085	0.012315
37° 7'	142399.2392	30.825719	6034.3997	0.038655	3.045	
			24444.6324	0.245959	313.412	0.012315
37° 8'	144248.7823	30.825806	6036.7190	0.038647	3.045	
			24459.3900	0.246067	313.740	0.012315
37° 9'	146098.3307	30.825893	6039.0378	0.038638	3.045	
			24474.1540	0.246176	314.067	0.012315
37°10'	147947.8842	30.825980	6041.3561	0.038630	3.044	
			24488.9245	0.246284	314.396	0.012315
37°11'	149797.4430	30.826066	6043.6739	0.038621	3.044	
			24503.7016	0.246392	314.725	0.012315
37°12'	151647.0070	30.826153	6045.9911	0.038613	3.044	
			24518.4851	0.246501	315.054	0.012315
37°13'	153496.5762	30.826240	6048.3079	0.038604	3.044	
			24533.2751	0.246609	315.383	0.012315
37°14'	155346.1506	30.826327	6050.6241	0.038596	3.044	
			24548.0717	0.246718	315.713	0.012315
37°15'	157195.7302	30.826414	6052.9399	0.038587	3.043	
			24562.8748	0.246827	316.043	0.012315
37°16'	159045.3151	30.826501	6055.2551	0.038578	3.043	
			24577.6844	0.246936	316.374	0.012315
37°17'	160894.9052	30.826588	6057.5698	0.038570	3.043	
			24592.5005	0.247045	316.705	0.012315

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°18'	162744.5005	30.826675	6059.8840	0.038561	3.043	
			24607.3232	0.247154	317.037	0.012315
37°19'	164594.1010	30.826762	6062.1977	0.038553	3.043	
			24622.1524	0.247263	317.369	0.012315
37°20'	166443.7067	30.826849	6064.5109	0.038544	3.042	
			24636.9882	0.247373	317.701	0.012314
37°21'	168293.3177	30.826936	6066.8235	0.038536	3.042	
			24651.8306	0.247482	318.034	0.012314
37°22'	170142.9339	30.827024	6069.1357	0.038527	3.042	
			24666.6795	0.247592	318.367	0.012314
37°23'	171992.5553	30.827111	6071.4473	0.038519	3.042	
			24681.5350	0.247701	318.700	0.012314
37°24'	173842.1819	30.827198	6073.7584	0.038510	3.042	
			24696.3971	0.247811	319.034	0.012314
37°25'	175691.8138	30.827285	6076.0690	0.038501	3.041	
			24711.2657	0.247921	319.368	0.012314
37°26'	177541.4509	30.827372	6078.3791	0.038493	3.041	
			24726.1410	0.248031	319.703	0.012314
37°27'	179391.0932	30.827459	6080.6887	0.038484	3.041	
			24741.0229	0.248141	320.038	0.012314
37°28'	181240.7408	30.827546	6082.9977	0.038476	3.041	
			24755.9114	0.248252	320.374	0.012314
37°29'	183090.3935	30.827634	6085.3063	0.038467	3.041	
			24770.8065	0.248362	320.710	0.012314
37°30'	184940.0516	30.827721	6087.6143	0.038459	3.040	
			24785.7082	0.248473	321.046	0.012314
37°31'	186789.7148	30.827808	6089.9218	0.038450	3.040	
			24800.6166	0.248583	321.383	0.012314
37°32'	188639.3833	30.827895	6092.2288	0.038441	3.040	
			24815.5316	0.248694	321.720	0.012314
37°33'	190489.0570	30.827982	6094.5353	0.038433	3.040	
			24830.4532	0.248805	322.058	0.012314
37°34'	192338.7359	30.828070	6096.8413	0.038424	3.039	
			24845.3815	0.248916	322.396	0.012314
37°35'	194188.4201	30.828157	6099.1467	0.038416	3.039	
			24860.3165	0.249027	322.734	0.012314
37°36'	196038.1095	30.828244	6101.4516	0.038407	3.039	
			24875.2581	0.249138	323.073	0.012314
37°37'	197887.8042	30.828331	6103.7561	0.038398	3.039	
			24890.2064	0.249250	323.412	0.012314
37°38'	199737.5041	30.828419	6106.0600	0.038390	3.038	
			24905.1614	0.249361	323.752	0.012314
37°39'	201587.2092	30.828506	6108.3633	0.038381	3.038	
			24920.1231	0.249473	324.092	0.012314

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°40'	203436.9195	30.828593	6110.6662	0.038373	3.038	
			24935.0915	0.249585	324.432	0.012314
37°41'	205286.6352	30.828681	6112.9686	0.038364	3.038	
			24950.0665	0.249696	324.773	0.012314
37°42'	207136.3560	30.828768	6115.2704	0.038355	3.038	
			24965.0483	0.249808	325.114	0.012313
37°43'	208986.0821	30.828856	6117.5717	0.038347	3.037	
			24980.0368	0.249920	325.456	0.012313
37°44'	210835.8134	30.828943	6119.8725	0.038338	3.037	
			24995.0320	0.250033	325.798	0.012313
37°45'	212685.5500	30.829030	6122.1728	0.038329	3.037	
			25010.0340	0.250145	326.141	0.012313
37°46'	214535.2918	30.829118	6124.4726	0.038321	3.037	
			25025.0427	0.250257	326.484	0.012313
37°47'	216385.0389	30.829205	6126.7718	0.038312	3.036	
			25040.0581	0.250370	326.827	0.012313
37°48'	218234.7912	30.829293	6129.0705	0.038303	3.036	
			25055.0803	0.250482	327.171	0.012313
37°49'	220084.5487	30.829380	6131.3687	0.038295	3.036	
			25070.1092	0.250595	327.515	0.012313
37°50'	221934.3115	30.829468	6133.6664	0.038286	3.036	
			25085.1450	0.250708	327.860	0.012313
37°51'	223784.0796	30.829555	6135.9636	0.038278	3.035	
			25100.1874	0.250821	328.205	0.012313
37°52'	225633.8529	30.829642	6138.2603	0.038269	3.035	
			25115.2367	0.250934	328.550	0.012313
37°53'	227483.6314	30.829730	6140.5564	0.038260	3.035	
			25130.2928	0.251048	328.896	0.012313
37°54'	229333.4152	30.829818	6142.8520	0.038252	3.035	
			25145.3556	0.251161	329.243	0.012313
37°55'	231183.2043	30.829905	6145.1471	0.038243	3.034	
			25160.4253	0.251274	329.589	0.012313
37°56'	233032.9986	30.829993	6147.4417	0.038234	3.034	
			25175.5017	0.251388	329.936	0.012313
37°57'	234882.7981	30.830080	6149.7357	0.038226	3.034	
			25190.5850	0.251502	330.284	0.012313
37°58'	236732.6030	30.830168	6152.0293	0.038217	3.034	
			25205.6751	0.251616	330.632	0.012313
37°59'	238582.4130	30.830255	6154.3223	0.038208	3.033	
			25220.7720	0.251730	330.981	0.012313
38° 0'	240432.2283	30.830343	6156.6148	0.038199	3.033	
			25235.8758	0.251844	331.330	0.012313
38° 1'	242282.0489	30.830431	6158.9067	0.038191	3.033	
			25250.9864	0.251958	331.679	0.012313

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38° 2'	244131.8748	30.830518	6161.1982	0.038182	3.032	
			25266.1039	0.252072	332.029	0.012313
38° 3'	245981.7058	30.830606	6163.4891	0.038173	3.032	
			25281.2282	0.252187	332.379	0.012312
38° 4'	247831.5422	30.830693	6165.7795	0.038165	3.032	
			25296.3594	0.252301	332.729	0.012312
38° 5'	249681.3838	30.830781	6168.0694	0.038156	3.032	
			25311.4975	0.252416	333.080	0.012312
38° 6'	251531.2307	30.830869	6170.3588	0.038147	3.031	
			25326.6425	0.252531	333.432	0.012312
38° 7'	253381.0828	30.830957	6172.6476	0.038139	3.031	
			25341.7943	0.252646	333.784	0.012312
38° 8'	255230.9402	30.831044	6174.9359	0.038130	3.031	
			25356.9530	0.252761	334.136	0.012312
38° 9'	257080.8028	30.831132	6177.2237	0.038121	3.031	
			25372.1187	0.252876	334.489	0.012312
38°10'	258930.6708	30.831220	6179.5110	0.038112	3.030	
			25387.2912	0.252991	334.842	0.012312
38°11'	260780.5439	30.831307	6181.7977	0.038104	3.030	
			25402.4707	0.253107	335.196	0.012312
38°12'	262630.4224	30.831395	6184.0840	0.038095	3.030	
			25417.6571	0.253222	335.550	0.012312
38°13'	264480.3061	30.831483	6186.3697	0.038086	3.029	
			25432.8504	0.253338	335.905	0.012312
38°14'	266330.1951	30.831571	6188.6548	0.038078	3.029	
			25448.0507	0.253454	336.259	0.012312
38°15'	268180.0893	30.831659	6190.9395	0.038069	3.029	
			25463.2579	0.253570	336.615	0.012312
38°16'	270029.9888	30.831746	6193.2236	0.038060	3.029	
			25478.4721	0.253686	336.971	0.012312
38°17'	271879.8936	30.831834	6195.5072	0.038051	3.028	
			25493.6932	0.253802	337.327	0.012312
38°18'	273729.8037	30.831922	6197.7903	0.038043	3.028	
			25508.9213	0.253918	337.684	0.012312
38°19'	275579.7190	30.832010	6200.0729	0.038034	3.028	
			25524.1564	0.254034	338.041	0.012312
38°20'	277429.6396	30.832098	6202.3549	0.038025	3.027	
			25539.3985	0.254151	338.399	0.012312
38°21'	279279.5654	30.832186	6204.6364	0.038016	3.027	
			25554.6475	0.254268	338.757	0.012312
38°22'	281129.4966	30.832273	6206.9174	0.038008	3.027	
			25569.9036	0.254384	339.115	0.012312
38°23'	282979.4330	30.832361	6209.1979	0.037999	3.026	
			25585.1667	0.254501	339.474	0.012312

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°24'	284829.3746	30.832449	6211.4778	0.037990	3.026	
			25600.4367	0.254618	339.833	0.012312
38°25'	286679.3216	30.832537	6213.7572	0.037981	3.026	
			25615.7138	0.254735	340.193	0.012311
38°26'	288529.2738	30.832625	6216.0361	0.037973	3.026	
			25630.9980	0.254853	340.554	0.012311
38°27'	290379.2313	30.832713	6218.3145	0.037964	3.025	
			25646.2891	0.254970	340.914	0.012311
38°28'	292229.1941	30.832801	6220.5923	0.037955	3.025	
			25661.5873	0.255088	341.275	0.012311
38°29'	294079.1622	30.832889	6222.8696	0.037946	3.025	
			25676.8926	0.255205	341.637	0.012311
38°30'	295929.1355	30.832977	6225.1464	0.037938	3.024	
			25692.2049	0.255323	341.999	0.012311
38°31'	297779.1141	30.833065	6227.4226	0.037929	3.024	
			25707.5243	0.255441	342.362	0.012311
38°32'	299629.0980	30.833153	6229.6983	0.037920	3.024	
			25722.8508	0.255559	342.725	0.012311
38°33'	301479.0872	30.833241	6231.9735	0.037911	3.023	
			25738.1843	0.255677	343.088	0.012311
38°34'	303329.0817	30.833329	6234.2482	0.037902	3.023	
			25753.5249	0.255795	343.452	0.012311
38°35'	305179.0814	30.833417	6236.5224	0.037894	3.023	
			25768.8727	0.255914	343.816	0.012311
38°36'	307029.0864	30.833505	6238.7960	0.037885	3.022	
			25784.2275	0.256032	344.181	0.012311
38°37'	308879.0967	30.833593	6241.0691	0.037876	3.022	
			25799.5895	0.256151	344.546	0.012311
38°38'	310729.1123	30.833681	6243.3416	0.037867	3.022	
			25814.9585	0.256270	344.912	0.012311
38°39'	312579.1332	30.833769	6245.6136	0.037858	3.021	
			25830.3347	0.256389	345.278	0.012311
38°40'	314429.1594	30.833857	6247.8851	0.037850	3.021	
			25845.7180	0.256508	345.645	0.012311
38°41'	316279.1908	30.833946	6250.1561	0.037841	3.021	
			25861.1085	0.256627	346.012	0.012311
38°42'	318129.2275	30.834034	6252.4266	0.037832	3.020	
			25876.5061	0.256746	346.379	0.012311
38°43'	319979.2696	30.834122	6254.6965	0.037823	3.020	
			25891.9109	0.256866	346.747	0.012311
38°44'	321829.3169	30.834210	6256.9659	0.037814	3.020	
			25907.3228	0.256985	347.116	0.012311
38°45'	323679.3695	30.834298	6259.2347	0.037805	3.019	
			25922.7419	0.257105	347.485	0.012311

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°46'	325529.4273	30.834386	6261.5030	0.037797	3.019	
			25938.1682	0.257225	347.854	0.012310
38°47'	327379.4905	30.834474	6263.7708	0.037788	3.019	
			25953.6017	0.257345	348.224	0.012310
38°48'	329229.5590	30.834563	6266.0381	0.037779	3.018	
			25969.0424	0.257465	348.594	0.012310
38°49'	331079.6328	30.834651	6268.3049	0.037770	3.018	
			25984.4902	0.257585	348.965	0.012310
38°50'	332929.7118	30.834739	6270.5711	0.037761	3.018	
			25999.9453	0.257705	349.336	0.012310
38°51'	334779.7962	30.834827	6272.8367	0.037752	3.017	
			26015.4076	0.257826	349.708	0.012310
38°52'	336629.8858	30.834916	6275.1019	0.037744	3.017	
			26030.8772	0.257946	350.080	0.012310
38°53'	338479.9807	30.835004	6277.3665	0.037735	3.017	
			26046.3539	0.258067	350.453	0.012310
38°54'	340330.0810	30.835092	6279.6306	0.037726	3.016	
			26061.8379	0.258188	350.826	0.012310
38°55'	342180.1865	30.835180	6281.8941	0.037717	3.016	
			26077.3292	0.258309	351.199	0.012310
38°56'	344030.2973	30.835269	6284.1571	0.037708	3.016	
			26092.8277	0.258430	351.573	0.012310
38°57'	345880.4134	30.835357	6286.4196	0.037699	3.015	
			26108.3335	0.258551	351.948	0.012310
38°58'	347730.5349	30.835445	6288.6816	0.037690	3.015	
			26123.8465	0.258672	352.323	0.012310
38°59'	349580.6616	30.835534	6290.9430	0.037682	3.015	
			26139.3669	0.258794	352.698	0.012310
39° 0'	351430.7936	30.835622	6293.2039	0.037673	3.014	
			26154.8945	0.258915	353.074	0.012310
39° 1'	353280.9309	30.835710	6295.4643	0.037664	3.014	
			26170.4294	0.259037	353.451	0.012310
39° 2'	355131.0735	30.835799	6297.7241	0.037655	3.014	
			26185.9716	0.259159	353.828	0.012310
39° 3'	356981.2214	30.835887	6299.9834	0.037646	3.013	
			26201.5212	0.259281	354.205	0.012310
39° 4'	358831.3747	30.835975	6302.2422	0.037637	3.013	
			26217.0780	0.259403	354.583	0.012310
39° 5'	360681.5332	30.836064	6304.5004	0.037628	3.013	
			26232.6422	0.259525	354.961	0.012310
39° 6'	362531.6970	30.836152	6306.7581	0.037619	3.012	
			26248.2137	0.259648	355.340	0.012310
39° 7'	364381.8662	30.836241	6309.0152	0.037610	3.012	
			26263.7926	0.259770	355.719	0.012309

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39° 8'	366232.0406	30.836329	6311.2719	0.037602	3.011	
			26279.3788	0.259893	356.099	0.012309
39° 9'	368082.2203	30.836417	6313.5280	0.037593	3.011	
			26294.9723	0.260016	356.479	0.012309
39°10'	369932.4054	30.836506	6315.7835	0.037584	3.011	
			26310.5733	0.260138	356.860	0.012309
39°11'	371782.5957	30.836594	6318.0385	0.037575	3.010	
			26326.1816	0.260261	357.241	0.012309
39°12'	373632.7914	30.836683	6320.2930	0.037566	3.010	
			26341.7973	0.260385	357.622	0.012309
39°13'	375482.9924	30.836771	6322.5470	0.037557	3.010	
			26357.4203	0.260508	358.005	0.012309
39°14'	377333.1987	30.836860	6324.8004	0.037548	3.009	
			26373.0508	0.260631	358.387	0.012309
39°15'	379183.4103	30.836948	6327.0533	0.037539	3.009	
			26388.6887	0.260755	358.770	0.012309
39°16'	381033.6272	30.837037	6329.3056	0.037530	3.008	
			26404.3340	0.260879	359.154	0.012309
39°17'	382883.8494	30.837125	6331.5574	0.037521	3.008	
			26419.9867	0.261002	359.538	0.012309
39°18'	384734.0769	30.837214	6333.8087	0.037512	3.008	
			26435.6468	0.261126	359.923	0.012309
39°19'	386584.3097	30.837302	6336.0595	0.037503	3.007	
			26451.3144	0.261251	360.308	0.012309
39°20'	388434.5479	30.837391	6338.3097	0.037494	3.007	
			26466.9895	0.261375	360.693	0.012309
39°21'	390284.7913	30.837480	6340.5593	0.037486	3.007	
			26482.6719	0.261499	361.079	0.012309
39°22'	392135.0401	30.837568	6342.8085	0.037477	3.006	
			26498.3619	0.261624	361.466	0.012309
39°23'	393985.2942	30.837657	6345.0571	0.037468	3.006	
			26514.0593	0.261748	361.853	0.012309
39°24'	395835.5536	30.837745	6347.3051	0.037459	3.005	
			26529.7642	0.261873	362.240	0.012309
39°25'	397685.8183	30.837834	6349.5527	0.037450	3.005	
			26545.4766	0.261998	362.628	0.012309
39°26'	399536.0884	30.837923	6351.7996	0.037441	3.005	
			26561.1965	0.262123	363.017	0.012309
39°27'	401386.3637	30.838011	6354.0461	0.037432	3.004	
			26576.9238	0.262248	363.406	0.012309
39°28'	403236.6444	30.838100	6356.2920	0.037423	3.004	
			26592.6587	0.262373	363.795	0.012308
39°29'	405086.9304	30.838189	6358.5374	0.037414	3.003	
			26608.4011	0.262499	364.185	0.012308

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°30'	406937.2217	30.838277	6360.7822	0.037405	3.003	
			26624.1511	0.262624	364.576	0.012308
39°31'	408787.5183	30.838366	6363.0265	0.037396	3.003	
			26639.9085	0.262750	364.967	0.012308
39°32'	410637.8203	30.838455	6365.2703	0.037387	3.002	
			26655.6735	0.262876	365.358	0.012308
39°33'	412488.1275	30.838543	6367.5135	0.037378	3.002	
			26671.4461	0.263002	365.750	0.012308
39°34'	414338.4401	30.838632	6369.7562	0.037369	3.001	
			26687.2262	0.263128	366.142	0.012308
39°35'	416188.7581	30.838721	6371.9983	0.037360	3.001	
			26703.0139	0.263254	366.535	0.012308
39°36'	418039.0813	30.838809	6374.2399	0.037351	3.001	
			26718.8091	0.263381	366.929	0.012308
39°37'	419889.4099	30.838898	6376.4810	0.037342	3.000	
			26734.6120	0.263507	367.323	0.012308
39°38'	421739.7437	30.838987	6378.7215	0.037333	3.000	
			26750.4224	0.263634	367.717	0.012308
39°39'	423590.0830	30.839076	6380.9615	0.037324	2.999	
			26766.2404	0.263761	368.112	0.012308
39°40'	425440.4275	30.839164	6383.2009	0.037315	2.999	
			26782.0661	0.263888	368.508	0.012308
39°41'	427290.7774	30.839253	6385.4398	0.037306	2.999	
			26797.8993	0.264015	368.904	0.012308
39°42'	429141.1325	30.839342	6387.6782	0.037297	2.998	
			26813.7402	0.264142	369.300	0.012308
39°43'	430991.4931	30.839431	6389.9160	0.037288	2.998	
			26829.5887	0.264269	369.697	0.012308
39°44'	432841.8589	30.839520	6392.1533	0.037279	2.997	
			26845.4449	0.264397	370.095	0.012308
39°45'	434692.2301	30.839608	6394.3900	0.037270	2.997	
			26861.3087	0.264524	370.493	0.012308
39°46'	436542.6066	30.839697	6396.6262	0.037261	2.996	
			26877.1801	0.264652	370.891	0.012308
39°47'	438392.9884	30.839786	6398.8619	0.037252	2.996	
			26893.0593	0.264780	371.290	0.012308
39°48'	440243.3756	30.839875	6401.0970	0.037243	2.996	
			26908.9460	0.264908	371.690	0.012308
39°49'	442093.7681	30.839964	6403.3316	0.037234	2.995	
			26924.8405	0.265036	372.090	0.012308
39°50'	443944.1659	30.840053	6405.5656	0.037225	2.995	
			26940.7427	0.265164	372.490	0.012307
39°51'	445794.5690	30.840141	6407.7991	0.037216	2.994	
			26956.6526	0.265293	372.892	0.012307

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°52'	447644.9775	30.840230	6410.0320	0.037207	2.994	
			26972.5701	0.265421	373.293	0.012307
39°53'	449495.3913	30.840319	6412.2645	0.037198	2.994	
			26988.4954	0.265550	373.695	0.012307
39°54'	451345.8105	30.840408	6414.4963	0.037189	2.993	
			27004.4284	0.265679	374.098	0.012307
39°55'	453196.2350	30.840497	6416.7276	0.037180	2.993	
			27020.3692	0.265808	374.501	0.012307
39°56'	455046.6648	30.840586	6418.9584	0.037171	2.992	
			27036.3176	0.265937	374.905	0.012307
39°57'	456897.1000	30.840675	6421.1887	0.037162	2.992	
			27052.2739	0.266066	375.309	0.012307
39°58'	458747.5405	30.840764	6423.4183	0.037152	2.991	
			27068.2379	0.266196	375.714	0.012307
39°59'	460597.9863	30.840853	6425.6475	0.037143	2.991	
			27084.2096	0.266325	376.119	0.012307
40° 0'	462448.4375	30.840942	6427.8761	0.037134	2.990	
			27100.1891	0.266455	376.525	0.012307
40° 1'	464298.8940	30.841031	6430.1042	0.037125	2.990	
			27116.1764	0.266585	376.931	0.012307
40° 2'	466149.3558	30.841120	6432.3317	0.037116	2.990	
			27132.1715	0.266715	377.338	0.012307
40° 3'	467999.8230	30.841209	6434.5586	0.037107	2.989	
			27148.1744	0.266845	377.745	0.012307
40° 4'	469850.2955	30.841298	6436.7851	0.037098	2.989	
			27164.1851	0.266975	378.153	0.012307
40° 5'	471700.7734	30.841387	6439.0110	0.037089	2.988	
			27180.2036	0.267106	378.561	0.012307
40° 6'	473551.2566	30.841476	6441.2363	0.037080	2.988	
			27196.2300	0.267236	378.970	0.012307
40° 7'	475401.7451	30.841565	6443.4611	0.037071	2.987	
			27212.2642	0.267367	379.380	0.012307
40° 8'	477252.2390	30.841654	6445.6853	0.037062	2.987	
			27228.3062	0.267498	379.790	0.012307
40° 9'	479102.7383	30.841743	6447.9090	0.037053	2.986	
			27244.3560	0.267629	380.200	0.012307
40°10'	480953.2428	30.841832	6450.1322	0.037044	2.986	
			27260.4138	0.267760	380.611	0.012307
40°11'	482803.7527	30.841921	6452.3548	0.037034	2.986	
			27276.4794	0.267891	381.023	0.012306
40°12'	484654.2680	30.842010	6454.5769	0.037025	2.985	
			27292.5528	0.268022	381.435	0.012306
40°13'	486504.7886	30.842099	6456.7984	0.037016	2.985	
			27308.6342	0.268154	381.847	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°14'	488355.3146	30.842188	6459.0194	0.037007	2.984	
			27324.7234	0.268286	382.261	0.012306
40°15'	490205.8459	30.842277	6461.2398	0.036998	2.984	
			27340.8205	0.268417	382.674	0.012306
40°16'	492056.3825	30.842366	6463.4597	0.036989	2.983	
			27356.9256	0.268549	383.088	0.012306
40°17'	493906.9245	30.842456	6465.6790	0.036980	2.983	
			27373.0386	0.268682	383.503	0.012306
40°18'	495757.4718	30.842545	6467.8978	0.036971	2.982	
			27389.1595	0.268814	383.919	0.012306
40°19'	497608.0245	30.842634	6470.1160	0.036962	2.982	
			27405.2883	0.268946	384.334	0.012306
40°20'	499458.5825	30.842723	6472.3337	0.036952	2.981	
			27421.4251	0.269079	384.751	0.012306
40°21'	501309.1459	30.842812	6474.5509	0.036943	2.981	
			27437.5698	0.269211	385.168	0.012306
40°22'	503159.7146	30.842901	6476.7675	0.036934	2.980	
			27453.7225	0.269344	385.585	0.012306
40°23'	505010.2887	30.842990	6478.9835	0.036925	2.980	
			27469.8831	0.269477	386.003	0.012306
40°24'	506860.8682	30.843080	6481.1990	0.036916	2.979	
			27486.0518	0.269610	386.422	0.012306
40°25'	508711.4529	30.843169	6483.4140	0.036907	2.979	
			27502.2284	0.269744	386.841	0.012306
40°26'	510562.0431	30.843258	6485.6284	0.036898	2.979	
			27518.4130	0.269877	387.261	0.012306
40°27'	512412.6385	30.843347	6487.8422	0.036888	2.978	
			27534.6056	0.270011	387.681	0.012306
40°28'	514263.2394	30.843437	6490.0555	0.036879	2.978	
			27550.8062	0.270144	388.101	0.012306
40°29'	516113.8456	30.843526	6492.2683	0.036870	2.977	
			27567.0149	0.270278	388.523	0.012306
40°30'	517964.4571	30.843615	6494.4805	0.036861	2.977	
			27583.2316	0.270412	388.945	0.012306
40°31'	519815.0740	30.843704	6496.6921	0.036852	2.976	
			27599.4563	0.270546	389.367	0.012306
40°32'	521665.6963	30.843793	6498.9032	0.036843	2.976	
			27615.6891	0.270680	389.790	0.012305
40°33'	523516.3239	30.843883	6501.1138	0.036833	2.975	
			27631.9299	0.270815	390.213	0.012305
40°34'	525366.9568	30.843972	6503.3238	0.036824	2.975	
			27648.1788	0.270949	390.637	0.012305
40°35'	527217.5952	30.844061	6505.5333	0.036815	2.974	
			27664.4358	0.271084	391.062	0.012305

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°36'	529068.2388	30.844151	6507.7422	0.036806	2.974	
			27680.7008	0.271219	391.487	0.012305
40°37'	530918.8879	30.844240	6509.9505	0.036797	2.973	
			27696.9740	0.271354	391.913	0.012305
40°38'	532769.5423	30.844329	6512.1583	0.036788	2.973	
			27713.2552	0.271489	392.339	0.012305
40°39'	534620.2020	30.844418	6514.3656	0.036778	2.972	
			27729.5446	0.271625	392.766	0.012305
40°40'	536470.8671	30.844508	6516.5723	0.036769	2.972	
			27745.8420	0.271760	393.193	0.012305
40°41'	538321.5376	30.844597	6518.7784	0.036760	2.971	
			27762.1476	0.271896	393.621	0.012305
40°42'	540172.2134	30.844686	6520.9840	0.036751	2.971	
			27778.4614	0.272031	394.050	0.012305
40°43'	542022.8946	30.844776	6523.1891	0.036742	2.970	
			27794.7833	0.272167	394.479	0.012305
40°44'	543873.5812	30.844865	6525.3936	0.036732	2.970	
			27811.1133	0.272303	394.909	0.012305
40°45'	545724.2731	30.844955	6527.5975	0.036723	2.969	
			27827.4515	0.272439	395.339	0.012305
40°46'	547574.9703	30.845044	6529.8009	0.036714	2.969	
			27843.7979	0.272576	395.770	0.012305
40°47'	549425.6730	30.845133	6532.0038	0.036705	2.968	
			27860.1524	0.272712	396.201	0.012305
40°48'	551276.3810	30.845223	6534.2060	0.036696	2.968	
			27876.5152	0.272849	396.633	0.012305
40°49'	553127.0943	30.845312	6536.4078	0.036686	2.967	
			27892.8861	0.272986	397.065	0.012305
40°50'	554977.8131	30.845401	6538.6090	0.036677	2.967	
			27909.2652	0.273123	397.498	0.012305
40°51'	556828.5371	30.845491	6540.8096	0.036668	2.966	
			27925.6526	0.273260	397.932	0.012305
40°52'	558679.2666	30.845580	6543.0097	0.036659	2.966	
			27942.0482	0.273397	398.366	0.012305
40°53'	560530.0014	30.845670	6545.2092	0.036649	2.965	
			27958.4520	0.273534	398.801	0.012304
40°54'	562380.7416	30.845759	6547.4081	0.036640	2.965	
			27974.8641	0.273672	399.236	0.012304
40°55'	564231.4871	30.845849	6549.6065	0.036631	2.964	
			27991.2844	0.273810	399.672	0.012304
40°56'	566082.2381	30.845938	6551.8044	0.036622	2.964	
			28007.7130	0.273948	400.108	0.012304
40°57'	567932.9943	30.846028	6554.0017	0.036612	2.963	
			28024.1498	0.274086	400.546	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

MISSOURI Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°58'	569783.7560	30.846117	6556.1985	0.036603	2.963	
			28040.5950	0.274224	400.983	0.012304
40°59'	571634.5230	30.846206	6558.3947	0.036594	2.962	
			28057.0484	0.274362	401.421	0.012304
41° 0'	573485.2954	30.846296	6560.5903	0.036585	2.962	
			28073.5101	0.274500	401.860	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is MONTANA

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 44° 15' (latitude of grid origin)
λ_{CM} = 109 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 45 0 (southern standard parallel)
ϕ_n = 49 0 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.731504203765 = $\sin(\phi.)$
K = 11726990.9793 m (mapping radius at the equator)
R_b = 6259119.5655 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	47 0 0.00000 110 0 0.00000	5953542.155 m -0 21 56.70757	-0.0063835351 0.9999796250	561995.355 m 305698.714 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	640000.000 m 310000.000 m	40000.000 m 5949119.566 m	5949254.0377 m 0 23 6.83848	47 2 18.9443 108 58 24.1278

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
44° 0'	6286915.952	30.88736	1.00074619
44 1	6285062.711	30.88699	1.00073137
44 2	6283209.491	30.88663	1.00071663
44 3	6281356.294	30.88627	1.00070197
44 4	6279503.117	30.88591	1.00068740
44 5	6277649.963	30.88556	1.00067290
44 6	6275796.829	30.88520	1.00065848
44 7	6273943.717	30.88485	1.00064415
44 8	6272090.626	30.88450	1.00062989
44 9	6270237.556	30.88416	1.00061572
44 10	6268384.507	30.88381	1.00060162
44 11	6266531.478	30.88347	1.00058761
44 12	6264678.469	30.88313	1.00057367
44 13	6262825.481	30.88280	1.00055982
44 14	6260972.513	30.88247	1.00054605
44 15	6259119.566	30.88213	1.00053236
44 16	6257266.637	30.88181	1.00051875
44 17	6255413.729	30.88148	1.00050522
44 18	6253560.840	30.88116	1.00049177
44 19	6251707.971	30.88084	1.00047840
44 20	6249855.121	30.88052	1.00046511
44 21	6248002.290	30.88020	1.00045190
44 22	6246149.478	30.87989	1.00043878
44 23	6244296.684	30.87958	1.00042573
44 24	6242443.910	30.87927	1.00041277
44 25	6240591.154	30.87896	1.00039988
44 26	6238738.416	30.87866	1.00038708
44 27	6236885.696	30.87836	1.00037436
44 28	6235032.995	30.87806	1.00036171
44 29	6233180.311	30.87776	1.00034915
44 30	6231327.645	30.87747	1.00033667
44 31	6229474.997	30.87718	1.00032428
44 32	6227622.366	30.87689	1.00031196
44 33	6225769.753	30.87660	1.00029972
44 34	6223917.157	30.87632	1.00028756
44 35	6222064.577	30.87604	1.00027549
44 36	6220212.015	30.87576	1.00026350
44 37	6218359.469	30.87549	1.00025158
44 38	6216506.940	30.87521	1.00023975
44 39	6214654.427	30.87494	1.00022800

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
44° 40'	6212801.931	30.87467	1.00021633
44 41	6210949.451	30.87441	1.00020474
44 42	6209096.986	30.87414	1.00019324
44 43	6207244.538	30.87388	1.00018181
44 44	6205392.105	30.87362	1.00017046
44 45	6203539.687	30.87337	1.00015920
44 46	6201687.285	30.87311	1.00014802
44 47	6199834.898	30.87286	1.00013692
44 48	6197982.527	30.87262	1.00012590
44 49	6196130.170	30.87237	1.00011496
44 50	6194277.827	30.87213	1.00010410
44 51	6192425.500	30.87188	1.00009332
44 52	6190573.187	30.87165	1.00008263
44 53	6188720.888	30.87141	1.00007202
44 54	6186868.603	30.87118	1.00006148
44 55	6185016.333	30.87095	1.00005103
44 56	6183164.076	30.87072	1.00004066
44 57	6181311.833	30.87049	1.00003038
44 58	6179459.603	30.87027	1.00002017
44 59	6177607.387	30.87005	1.00001004
45 0	6175755.184	30.86983	1.00000000
45 1	6173902.995	30.86961	0.99999004
45 2	6172050.818	30.86940	0.99998016
45 3	6170198.654	30.86919	0.99997036
45 4	6168346.503	30.86898	0.99996064
45 5	6166494.364	30.86878	0.99995100
45 6	6164642.237	30.86857	0.99994145
45 7	6162790.123	30.86837	0.99993198
45 8	6160938.020	30.86817	0.99992259
45 9	6159085.930	30.86798	0.99991328
45 10	6157233.851	30.86778	0.99990405
45 11	6155381.784	30.86759	0.99989490
45 12	6153529.729	30.86741	0.99988584
45 13	6151677.684	30.86722	0.99987686
45 14	6149825.651	30.86704	0.99986796
45 15	6147973.629	30.86686	0.99985914
45 16	6146121.617	30.86668	0.99985040
45 17	6144269.617	30.86650	0.99984175
45 18	6142417.626	30.86633	0.99983317
45 19	6140565.647	30.86616	0.99982468

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
45° 20'	6138713.677	30.86599	0.99981627
45 21	6136861.718	30.86583	0.99980794
45 22	6135009.768	30.86566	0.99979970
45 23	6133157.828	30.86550	0.99979153
45 24	6131305.898	30.86535	0.99978345
45 25	6129453.977	30.86519	0.99977545
45 26	6127602.066	30.86504	0.99976753
45 27	6125750.163	30.86489	0.99975970
45 28	6123898.270	30.86474	0.99975194
45 29	6122046.386	30.86459	0.99974427
45 30	6120194.510	30.86445	0.99973668
45 31	6118342.643	30.86431	0.99972917
45 32	6116490.784	30.86417	0.99972175
45 33	6114638.934	30.86404	0.99971441
45 34	6112787.091	30.86391	0.99970714
45 35	6110935.257	30.86378	0.99969997
45 36	6109083.430	30.86365	0.99969287
45 37	6107231.611	30.86353	0.99968585
45 38	6105379.800	30.86340	0.99967892
45 39	6103527.996	30.86328	0.99967207
45 40	6101676.199	30.86317	0.99966531
45 41	6099824.409	30.86305	0.99965862
45 42	6097972.626	30.86294	0.99965202
45 43	6096120.849	30.86283	0.99964550
45 44	6094269.080	30.86272	0.99963906
45 45	6092417.316	30.86262	0.99963270
45 46	6090565.559	30.86252	0.99962643
45 47	6088713.808	30.86242	0.99962024
45 48	6086862.063	30.86232	0.99961413
45 49	6085010.324	30.86223	0.99960811
45 50	6083158.591	30.86213	0.99960216
45 51	6081306.863	30.86204	0.99959630
45 52	6079455.140	30.86196	0.99959052
45 53	6077603.423	30.86187	0.99958483
45 54	6075751.710	30.86179	0.99957922
45 55	6073900.003	30.86171	0.99957369
45 56	6072048.300	30.86164	0.99956824
45 57	6070196.602	30.86156	0.99956287
45 58	6068344.908	30.86149	0.99955759
45 59	6066493.219	30.86142	0.99955239

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
46° 0'	6064641.533	30.86136	0.99954728
46 1	6062789.852	30.86129	0.99954224
46 2	6060938.174	30.86123	0.99953729
46 3	6059086.501	30.86117	0.99953242
46 4	6057234.830	30.86112	0.99952764
46 5	6055383.163	30.86106	0.99952294
46 6	6053531.500	30.86101	0.99951832
46 7	6051679.839	30.86096	0.99951378
46 8	6049828.181	30.86092	0.99950933
46 9	6047976.526	30.86087	0.99950496
46 10	6046124.874	30.86083	0.99950067
46 11	6044273.224	30.86080	0.99949647
46 12	6042421.576	30.86076	0.99949234
46 13	6040569.930	30.86073	0.99948831
46 14	6038718.287	30.86070	0.99948435
46 15	6036866.645	30.86067	0.99948048
46 16	6035015.005	30.86064	0.99947669
46 17	6033163.366	30.86062	0.99947298
46 18	6031311.729	30.86060	0.99946936
46 19	6029460.093	30.86058	0.99946582
46 20	6027608.458	30.86057	0.99946237
46 21	6025756.824	30.86055	0.99945899
46 22	6023905.191	30.86054	0.99945570
46 23	6022053.558	30.86054	0.99945250
46 24	6020201.926	30.86053	0.99944937
46 25	6018350.294	30.86053	0.99944633
46 26	6016498.662	30.86053	0.99944338
46 27	6014647.030	30.86053	0.99944051
46 28	6012795.398	30.86054	0.99943772
46 29	6010943.766	30.86055	0.99943501
46 30	6009092.133	30.86056	0.99943239
46 31	6007240.500	30.86057	0.99942985
46 32	6005388.865	30.86059	0.99942739
46 33	6003537.230	30.86061	0.99942502
46 34	6001685.594	30.86063	0.99942273
46 35	5999833.956	30.86065	0.99942053
46 36	5997982.317	30.86068	0.99941841
46 37	5996130.677	30.86070	0.99941637
46 38	5994279.035	30.86074	0.99941442
46 39	5992427.390	30.86077	0.99941255

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
46° 40'	5990575.744	30.86081	0.99941076
46 41	5988724.096	30.86085	0.99940906
46 42	5986872.445	30.86089	0.99940744
46 43	5985020.792	30.86093	0.99940590
46 44	5983169.136	30.86098	0.99940445
46 45	5981317.477	30.86103	0.99940309
46 46	5979465.816	30.86108	0.99940180
46 47	5977614.151	30.86113	0.99940060
46 48	5975762.483	30.86119	0.99939949
46 49	5973910.812	30.86125	0.99939846
46 50	5972059.137	30.86131	0.99939751
46 51	5970207.458	30.86138	0.99939665
46 52	5968355.775	30.86145	0.99939587
46 53	5966504.088	30.86152	0.99939517
46 54	5964652.398	30.86159	0.99939456
46 55	5962800.702	30.86166	0.99939403
46 56	5960949.002	30.86174	0.99939359
46 57	5959097.298	30.86182	0.99939323
46 58	5957245.589	30.86190	0.99939296
46 59	5955393.874	30.86199	0.99939277
47 0	5953542.155	30.86208	0.99939266
47 1	5951690.430	30.86217	0.99939264
47 2	5949838.700	30.86226	0.99939270
47 3	5947986.964	30.86236	0.99939285
47 4	5946135.223	30.86246	0.99939308
47 5	5944283.475	30.86256	0.99939339
47 6	5942431.722	30.86266	0.99939379
47 7	5940579.962	30.86277	0.99939428
47 8	5938728.196	30.86288	0.99939485
47 9	5936876.423	30.86299	0.99939550
47 10	5935024.644	30.86310	0.99939624
47 11	5933172.857	30.86322	0.99939706
47 12	5931321.064	30.86334	0.99939797
47 13	5929469.264	30.86346	0.99939896
47 14	5927617.456	30.86359	0.99940004
47 15	5925765.640	30.86372	0.99940120
47 16	5923913.818	30.86385	0.99940244
47 17	5922061.987	30.86398	0.99940377
47 18	5920210.148	30.86411	0.99940519
47 19	5918358.301	30.86425	0.99940669

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
47° 20'	5916506.446	30.86439	0.99940827
47 21	5914654.583	30.86453	0.99940994
47 22	5912802.711	30.86468	0.99941170
47 23	5910950.830	30.86483	0.99941354
47 24	5909098.940	30.86498	0.99941546
47 25	5907247.042	30.86513	0.99941747
47 26	5905395.134	30.86529	0.99941956
47 27	5903543.216	30.86545	0.99942174
47 28	5901691.289	30.86561	0.99942401
47 29	5899839.353	30.86577	0.99942636
47 30	5897987.406	30.86594	0.99942879
47 31	5896135.450	30.86611	0.99943131
47 32	5894283.484	30.86628	0.99943391
47 33	5892431.507	30.86646	0.99943660
47 34	5890579.519	30.86663	0.99943938
47 35	5888727.521	30.86681	0.99944224
47 36	5886875.513	30.86699	0.99944518
47 37	5885023.493	30.86718	0.99944821
47 38	5883171.462	30.86737	0.99945133
47 39	5881319.420	30.86756	0.99945453
47 40	5879467.367	30.86775	0.99945782
47 41	5877615.302	30.86795	0.99946119
47 42	5875763.225	30.86814	0.99946465
47 43	5873911.136	30.86835	0.99946819
47 44	5872059.036	30.86855	0.99947182
47 45	5870206.923	30.86875	0.99947553
47 46	5868354.797	30.86896	0.99947933
47 47	5866502.660	30.86917	0.99948321
47 48	5864650.509	30.86939	0.99948719
47 49	5862798.346	30.86961	0.99949124
47 50	5860946.169	30.86982	0.99949538
47 51	5859093.980	30.87005	0.99949961
47 52	5857241.777	30.87027	0.99950392
47 53	5855389.561	30.87050	0.99950832
47 54	5853537.331	30.87073	0.99951281
47 55	5851685.087	30.87096	0.99951738
47 56	5849832.830	30.87120	0.99952203
47 57	5847980.558	30.87143	0.99952678
47 58	5846128.272	30.87167	0.99953160
47 59	5844275.971	30.87192	0.99953652

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
48° 0'	5842423.656	30.87216	0.99954152
48 1	5840571.326	30.87241	0.99954660
48 2	5838718.982	30.87266	0.99955178
48 3	5836866.622	30.87292	0.99955703
48 4	5835014.247	30.87317	0.99956238
48 5	5833161.857	30.87343	0.99956781
48 6	5831309.451	30.87369	0.99957332
48 7	5829457.029	30.87396	0.99957893
48 8	5827604.592	30.87423	0.99958462
48 9	5825752.138	30.87449	0.99959039
48 10	5823899.668	30.87477	0.99959625
48 11	5822047.182	30.87504	0.99960220
48 12	5820194.680	30.87532	0.99960823
48 13	5818342.161	30.87560	0.99961435
48 14	5816489.625	30.87588	0.99962056
48 15	5814637.072	30.87617	0.99962685
48 16	5812784.502	30.87646	0.99963323
48 17	5810931.914	30.87675	0.99963970
48 18	5809079.309	30.87704	0.99964625
48 19	5807226.687	30.87734	0.99965289
48 20	5805374.047	30.87764	0.99965962
48 21	5803521.388	30.87794	0.99966643
48 22	5801668.712	30.87824	0.99967333
48 23	5799816.017	30.87855	0.99968031
48 24	5797963.304	30.87886	0.99968738
48 25	5796110.573	30.87917	0.99969454
48 26	5794257.823	30.87949	0.99970179
48 27	5792405.053	30.87980	0.99970912
48 28	5790552.265	30.88013	0.99971654
48 29	5788699.458	30.88045	0.99972405
48 30	5786846.631	30.88077	0.99973164
48 31	5784993.784	30.88110	0.99973932
48 32	5783140.918	30.88143	0.99974709
48 33	5781288.032	30.88177	0.99975494
48 34	5779435.126	30.88210	0.99976288
48 35	5777582.200	30.88244	0.99977091
48 36	5775729.253	30.88278	0.99977902
48 37	5773876.286	30.88313	0.99978723
48 38	5772023.298	30.88348	0.99979552
48 39	5770170.290	30.88383	0.99980389

Lambert conformal conic projection tables
MONTANA

Lat	R (meters)	tab diff.	k
48° 40'	5768317.260	30.88418	0.99981236
48 41	5766464.209	30.88453	0.99982091
48 42	5764611.137	30.88489	0.99982955
48 43	5762758.044	30.88525	0.99983827
48 44	5760904.929	30.88562	0.99984708
48 45	5759051.792	30.88598	0.99985598
48 46	5757198.633	30.88635	0.99986497
48 47	5755345.452	30.88672	0.99987405
48 48	5753492.248	30.88710	0.99988321
48 49	5751639.022	30.88747	0.99989246
48 50	5749785.774	30.88785	0.99990180
48 51	5747932.503	30.88824	0.99991122
48 52	5746079.209	30.88862	0.99992074
48 53	5744225.891	30.88901	0.99993034
48 54	5742372.551	30.88940	0.99994003
48 55	5740519.187	30.88979	0.99994980
48 56	5738665.800	30.89019	0.99995967
48 57	5736812.388	30.89059	0.99996962
48 58	5734958.953	30.89099	0.99997966
48 59	5733105.494	30.89139	0.99998978
49 0	5731252.010	30.89180	1.00000000
49 1	5729398.503	30.89221	1.00001030
49 2	5727544.970	30.89262	1.00002069
49 3	5725691.413	30.89303	1.00003117
49 4	5723837.831	30.89345	1.00004174
49 5	5721984.224	30.89387	1.00005240
49 6	5720130.592	30.89429	1.00006314
49 7	5718276.934	30.89472	1.00007397
49 8	5716423.251	30.89515	1.00008489
49 9	5714569.542	30.89558	1.00009590
49 10	5712715.807	30.89601	1.00010699
49 11	5710862.046	30.89645	1.00011818
49 12	5709008.259	30.89689	1.00012945
49 13	5707154.446	30.89733	1.00014081
49 14	5705300.606	30.89778	1.00015226
49 15	5703446.740	30.89822	1.00016380
49 16	5701592.846	30.89867	1.00017543
49 17	5699738.926	30.89913	1.00018714
49 18	5697884.978	30.89958	1.00019894
49 19	5696031.003	30.90004	1.00021084

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is NEBRASKA

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 39° 50' (latitude of grid origin)
λ_{CM} = 100 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 0 (southern standard parallel)
ϕ_n = 43 0 (northern standard parallel)
$E_.$ = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.662696910933 = $\sin(\phi_.)$
K = 12205748.1618 m (mapping radius at the equator)
R_b = 7401530.8340 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 30 0.00000 100 30 0.00000	7216488.779 m -0 19 52.85444	-0.0057830893 0.9999832778	458266.401 m 185162.731 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - $E_.$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000 m 190000.000 m	50000.000 m 7211530.834 m	7211704.1655 m 0 23 50.08125	41 32 35.1402 99 24 2.0282

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
39° 40'	7420038.074	30.84623	1.00016708
39 41	7418187.300	30.84604	1.00015795
39 42	7416336.538	30.84585	1.00014889
39 43	7414485.787	30.84566	1.00013992
39 44	7412635.047	30.84548	1.00013103
39 45	7410784.318	30.84530	1.00012222
39 46	7408933.600	30.84512	1.00011350
39 47	7407082.893	30.84494	1.00010486
39 48	7405232.196	30.84477	1.00009630
39 49	7403381.510	30.84460	1.00008782
39 50	7401530.834	30.84443	1.00007942
39 51	7399680.168	30.84426	1.00007111
39 52	7397829.512	30.84410	1.00006288
39 53	7395978.866	30.84394	1.00005473
39 54	7394128.230	30.84378	1.00004667
39 55	7392277.603	30.84362	1.00003868
39 56	7390426.986	30.84347	1.00003078
39 57	7388576.378	30.84332	1.00002296
39 58	7386725.778	30.84317	1.00001523
39 59	7384875.188	30.84303	1.00000757
40 0	7383024.607	30.84288	1.00000000
40 1	7381174.034	30.84274	0.99999251
40 2	7379323.469	30.84260	0.99998510
40 3	7377472.913	30.84247	0.99997778
40 4	7375622.365	30.84233	0.99997054
40 5	7373771.825	30.84220	0.99996338
40 6	7371921.293	30.84208	0.99995630
40 7	7370070.768	30.84195	0.99994931
40 8	7368220.251	30.84183	0.99994240
40 9	7366369.741	30.84171	0.99993557
40 10	7364519.239	30.84159	0.99992882
40 11	7362668.743	30.84147	0.99992216
40 12	7360818.255	30.84136	0.99991558
40 13	7358967.773	30.84125	0.99990908
40 14	7357117.298	30.84114	0.99990267
40 15	7355266.829	30.84104	0.99989633
40 16	7353416.367	30.84094	0.99989009
40 17	7351565.911	30.84084	0.99988392
40 18	7349715.461	30.84074	0.99987783
40 19	7347865.016	30.84065	0.99987183

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
40° 20'	7346014.577	30.84055	0.99986591
40 21	7344164.144	30.84046	0.99986008
40 22	7342313.716	30.84038	0.99985433
40 23	7340463.294	30.84029	0.99984866
40 24	7338612.876	30.84021	0.99984307
40 25	7336762.464	30.84013	0.99983757
40 26	7334912.056	30.84005	0.99983214
40 27	7333061.653	30.83998	0.99982681
40 28	7331211.254	30.83991	0.99982155
40 29	7329360.859	30.83984	0.99981638
40 30	7327510.469	30.83977	0.99981129
40 31	7325660.082	30.83971	0.99980628
40 32	7323809.700	30.83965	0.99980136
40 33	7321959.321	30.83959	0.99979652
40 34	7320108.946	30.83953	0.99979176
40 35	7318258.574	30.83948	0.99978709
40 36	7316408.205	30.83943	0.99978250
40 37	7314557.839	30.83938	0.99977799
40 38	7312707.477	30.83933	0.99977357
40 39	7310857.116	30.83929	0.99976923
40 40	7309006.759	30.83925	0.99976497
40 41	7307156.404	30.83921	0.99976079
40 42	7305306.051	30.83918	0.99975670
40 43	7303455.701	30.83914	0.99975269
40 44	7301605.352	30.83911	0.99974877
40 45	7299755.006	30.83908	0.99974493
40 46	7297904.660	30.83906	0.99974117
40 47	7296054.317	30.83904	0.99973749
40 48	7294203.975	30.83902	0.99973390
40 49	7292353.634	30.83900	0.99973039
40 50	7290503.294	30.83898	0.99972697
40 51	7288652.955	30.83897	0.99972363
40 52	7286802.616	30.83896	0.99972037
40 53	7284952.279	30.83895	0.99971720
40 54	7283101.941	30.83895	0.99971410
40 55	7281251.604	30.83895	0.99971110
40 56	7279401.268	30.83895	0.99970817
40 57	7277550.931	30.83895	0.99970533
40 58	7275700.594	30.83896	0.99970258
40 59	7273850.256	30.83897	0.99969990

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
41° 0'	7271999.918	30.83898	0.99969731
41 1	7270149.580	30.83899	0.99969481
41 2	7268299.240	30.83901	0.99969238
41 3	7266448.900	30.83902	0.99969005
41 4	7264598.559	30.83905	0.99968779
41 5	7262748.216	30.83907	0.99968562
41 6	7260897.872	30.83910	0.99968353
41 7	7259047.526	30.83912	0.99968153
41 8	7257197.178	30.83916	0.99967961
41 9	7255346.829	30.83919	0.99967777
41 10	7253496.478	30.83923	0.99967602
41 11	7251646.124	30.83927	0.99967435
41 12	7249795.768	30.83931	0.99967276
41 13	7247945.409	30.83935	0.99967126
41 14	7246095.048	30.83940	0.99966985
41 15	7244244.684	30.83945	0.99966851
41 16	7242394.317	30.83950	0.99966726
41 17	7240543.947	30.83956	0.99966610
41 18	7238693.574	30.83961	0.99966502
41 19	7236843.197	30.83967	0.99966402
41 20	7234992.816	30.83974	0.99966311
41 21	7233142.432	30.83980	0.99966228
41 22	7231292.044	30.83987	0.99966153
41 23	7229441.652	30.83994	0.99966087
41 24	7227591.255	30.84001	0.99966029
41 25	7225740.854	30.84009	0.99965980
41 26	7223890.449	30.84017	0.99965939
41 27	7222040.039	30.84025	0.99965907
41 28	7220189.624	30.84033	0.99965883
41 29	7218339.204	30.84042	0.99965867
41 30	7216488.779	30.84051	0.99965860
41 31	7214638.348	30.84060	0.99965861
41 32	7212787.912	30.84069	0.99965871
41 33	7210937.471	30.84079	0.99965889
41 34	7209087.023	30.84089	0.99965916
41 35	7207236.570	30.84099	0.99965951
41 36	7205386.110	30.84110	0.99965994
41 37	7203535.645	30.84120	0.99966046
41 38	7201685.173	30.84131	0.99966106
41 39	7199834.694	30.84142	0.99966175

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
41° 40'	7197984.208	30.84154	0.99966252
41 41	7196133.716	30.84166	0.99966338
41 42	7194283.217	30.84178	0.99966432
41 43	7192432.710	30.84190	0.99966534
41 44	7190582.196	30.84202	0.99966645
41 45	7188731.675	30.84215	0.99966765
41 46	7186881.145	30.84228	0.99966893
41 47	7185030.608	30.84242	0.99967029
41 48	7183180.063	30.84255	0.99967174
41 49	7181329.510	30.84269	0.99967327
41 50	7179478.949	30.84283	0.99967489
41 51	7177628.379	30.84298	0.99967659
41 52	7175777.800	30.84312	0.99967838
41 53	7173927.213	30.84327	0.99968025
41 54	7172076.617	30.84342	0.99968221
41 55	7170226.012	30.84358	0.99968425
41 56	7168375.397	30.84373	0.99968637
41 57	7166524.773	30.84389	0.99968858
41 58	7164674.140	30.84405	0.99969088
41 59	7162823.496	30.84422	0.99969326
42 0	7160972.843	30.84439	0.99969573
42 1	7159122.180	30.84456	0.99969828
42 2	7157271.507	30.84473	0.99970091
42 3	7155420.823	30.84490	0.99970363
42 4	7153570.129	30.84508	0.99970644
42 5	7151719.424	30.84526	0.99970933
42 6	7149868.708	30.84544	0.99971231
42 7	7148017.982	30.84563	0.99971537
42 8	7146167.244	30.84582	0.99971851
42 9	7144316.495	30.84601	0.99972174
42 10	7142465.734	30.84620	0.99972506
42 11	7140614.962	30.84640	0.99972846
42 12	7138764.178	30.84660	0.99973195
42 13	7136913.382	30.84680	0.99973552
42 14	7135062.574	30.84700	0.99973918
42 15	7133211.754	30.84721	0.99974292
42 16	7131360.921	30.84742	0.99974675
42 17	7129510.076	30.84763	0.99975066
42 18	7127659.218	30.84785	0.99975466
42 19	7125808.347	30.84806	0.99975874

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
42° 20'	7123957.463	30.84828	0.99976291
42 21	7122106.566	30.84851	0.99976717
42 22	7120255.656	30.84873	0.99977151
42 23	7118404.732	30.84896	0.99977593
42 24	7116553.794	30.84919	0.99978044
42 25	7114702.843	30.84942	0.99978504
42 26	7112851.878	30.84966	0.99978972
42 27	7111000.898	30.84990	0.99979449
42 28	7109149.904	30.85014	0.99979934
42 29	7107298.896	30.85038	0.99980428
42 30	7105447.873	30.85063	0.99980931
42 31	7103596.835	30.85088	0.99981442
42 32	7101745.783	30.85113	0.99981961
42 33	7099894.715	30.85138	0.99982489
42 34	7098043.632	30.85164	0.99983026
42 35	7096192.533	30.85190	0.99983572
42 36	7094341.419	30.85216	0.99984125
42 37	7092490.289	30.85243	0.99984688
42 38	7090639.144	30.85270	0.99985259
42 39	7088787.982	30.85297	0.99985839
42 40	7086936.804	30.85324	0.99986427
42 41	7085085.610	30.85351	0.99987024
42 42	7083234.399	30.85379	0.99987629
42 43	7081383.171	30.85407	0.99988243
42 44	7079531.927	30.85436	0.99988866
42 45	7077680.665	30.85464	0.99989497
42 46	7075829.387	30.85493	0.99990137
42 47	7073978.091	30.85522	0.99990785
42 48	7072126.777	30.85552	0.99991442
42 49	7070275.446	30.85582	0.99992108
42 50	7068424.097	30.85611	0.99992782
42 51	7066572.731	30.85642	0.99993465
42 52	7064721.346	30.85672	0.99994157
42 53	7062869.942	30.85703	0.99994857
42 54	7061018.520	30.85734	0.99995566
42 55	7059167.080	30.85765	0.99996283
42 56	7057315.621	30.85797	0.99997009
42 57	7055464.143	30.85829	0.99997744
42 58	7053612.646	30.85861	0.99998487
42 59	7051761.129	30.85893	0.99999239

Lambert conformal conic projection tables
NEBRASKA

Lat	R (meters)	tab diff.	k
43° 0'	7049909.593	30.85926	1.00000000
43 1	7048058.038	30.85959	1.00000769
43 2	7046206.463	30.85992	1.00001547
43 3	7044354.868	30.86025	1.00002334
43 4	7042503.253	30.86059	1.00003129
43 5	7040651.617	30.86093	1.00003933
43 6	7038799.962	30.86127	1.00004745
43 7	7036948.285	30.86162	1.00005567
43 8	7035096.589	30.86196	1.00006396
43 9	7033244.871	30.86231	1.00007235
43 10	7031393.132	30.86267	1.00008082
43 11	7029541.372	30.86302	1.00008938
43 12	7027689.591	30.86338	1.00009803
43 13	7025837.788	30.86374	1.00010676
43 14	7023985.963	30.86411	1.00011558
43 15	7022134.117	30.86447	1.00012448
43 16	7020282.249	30.86484	1.00013348
43 17	7018430.358	30.86521	1.00014256
43 18	7016578.445	30.86559	1.00015172
43 19	7014726.510	30.86596	1.00016098
43 20	7012874.552	30.86634	1.00017032

TRANSVERSE MERCATOR PROJECTION

TABLES FOR NEVADA COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEVADA EAST
ZONE CODE: 2701

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 34°45' (latitude of grid origin)
λ_b = 115°35' (longitude of origin and Central Meridian, CM)
E_0 = 200000 m (easting coordinate of grid origin)
N_b =8000000 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 34°45' to ϕ_{max} = 42°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 35°15'23".54600
LONGITUDE: 116°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.22637550
TABULAR (I) = 55464.7415
23.54600 sec = 725.5714
SECOND DIFF = -0.0006
(I) = 56190.3123
TABULAR (II) = 3536.4820
23.54600 sec = 0.2870
(II) = 3536.7692
TABULAR (III) = 2.0978
$N' = (I) + (II)p^2 + (III)p^4$ = 56371.563 m
$N = N_b + N'$ = 8000000 + 56371.563 = 8056371.563 m

TABULAR (IV) = 252779.2995
23.54600 sec = -20.3062
SECOND DIFF = 0.0026
(IV) = 252758.9958
TABULAR (V) = 33.3517
23.54600 sec = -0.0241
(V) = 33.3276
TABULAR (VI) = -0.0197
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -57218.831 m
$E = E_0 + E'$ = 142781.169 m

TABULAR (XII) = 5771.4519
23.54600 sec = 0.9321
(XII) = 5772.3840
TABULAR (XIII) = 3.0564
$C = (XII)p + (XIII)p^3$ = -1306".76

$q = 10^{-6} E'$ = -0.05721883
TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99994034

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05721883$
$\phi' = 35°15'29''.42788$

TABULAR	(VII) =	1796.0814
29.42788 sec	=	0.5405
	(VII) =	1796.6220
TABULAR	(VIII) =	23.8026
29.42788 sec	=	0.0104
	(VIII) =	23.8130

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 35°15'23''.54600$

TABULAR	(IX) =	39560.2014
29.42788 sec	=	3.9726
SECOND DIFF	=	-0.0008
	(IX) =	39564.1732
TABULAR	(X) =	324.0492
29.42788 sec	=	0.1300
	(X) =	324.1792
TABULAR	(XI) =	4.9634
29.42788 sec	=	0.0036
	(XI) =	4.9670

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 116°12'43''.75499$

TABULAR	(XIV) =	22831.9800
29.42788 sec	=	6.9024
SECOND DIFF	=	-0.0007
	(XIV) =	22838.8817
TABULAR	(XV) =	279.1088
29.42788 sec	=	0.1408
	(XV) =	279.2496

$C = (XIV)q - (XV)q^3 = -1306''.76$

TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99994034$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEVADA CENTRAL
ZONE CODE: 2702

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 34°45' (latitude of grid origin)
λ_b = 116°40' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b =6000000 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 34°45' to ϕ_{max} = 42°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  35°15'23".54600
  LONGITUDE: 117°12'43".75500

     p = 10^-4 Δλ  =  -0.19637550
TABULAR  (   I) =   55464.7415
   23.54600 sec =     725.5714
   SECOND DIFF  =      -0.0006
         (   I) =   56190.3123
TABULAR  (  II) =    3536.4820
   23.54600 sec =       0.2870
         (  II) =    3536.7692
TABULAR  ( III) =       2.0978
 N' = (I) + (II)p^2 + (III)p^4 =  56326.705 m
 N  =  N_b + N' =  6000000 + 56326.705 =  6056326.705 m


TABULAR  (  IV) =  252779.2995
   23.54600 sec =     -20.3062
   SECOND DIFF  =       0.0026
         (  IV) =  252758.9958
TABULAR  (   V) =      33.3517
   23.54600 sec =      -0.0241
         (   V) =      33.3276
TABULAR  (  VI) =      -0.0197
 E' = (IV)p +(V)p^3 + (VI)p^5 = -49635.927 m
 E = E_0 + E' =                 450364.073 m


TABULAR  ( XII) =    5771.4519
   23.54600 sec =       0.9321
         ( XII) =    5772.3840
TABULAR  (XIII) =       3.0564
C = (XII)p + (XIII)p^3 =    -1133".58


  q  = 10^-6 E'   =  -0.04963593
TABULAR  ( XVI) =     0.012321
k = k_0(1 + (XVI)q^2 + 0.00003q^4) =  0.99993035
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.04963593$
$\phi' = 35°15'27''.97217$

TABULAR	(VII) =	1796.0814
27.97217 sec	=	0.5138
	(VII) =	1796.5952
TABULAR	(VIII) =	23.8026
27.97217 sec	=	0.0099
	(VIII) =	23.8125

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 35°15'23''.54600$

TABULAR	(IX) =	39560.2014
27.97217 sec	=	3.7761
SECOND DIFF	=	-0.0008
	(IX) =	39563.9767
TABULAR	(X) =	324.0492
27.97217 sec	=	0.1236
	(X) =	324.1728
TABULAR	(XI) =	4.9634
27.97217 sec	=	0.0034
	(XI) =	4.9668

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 117°12'43''.75500$

TABULAR	(XIV) =	22831.9800
27.97217 sec	=	6.5610
SECOND DIFF	=	-0.0007
	(XIV) =	22838.5402
TABULAR	(XV) =	279.1088
27.97217 sec	=	0.1339
	(XV) =	279.2427

$C = (XIV)q - (XV)q^3 = -1133''.58$

TABULAR (XVI) = 0.012321
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99993035$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEVADA WEST
ZONE CODE: 2703

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 34°45' (latitude of grid origin)
λ_b = 118°35' (longitude of origin and Central Meridian, CM)
E_0 = 800000 m (easting coordinate of grid origin)
N_b =4000000 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 34°45' to ϕ_{max} = 42°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  35°15'23".54600
  LONGITUDE: 119°12'43".75500

     p = 10^-4 Δλ  =  -0.22637550
TABULAR  (   I) =   55464.7415
   23.54600 sec =     725.5714
   SECOND DIFF  =      -0.0006
         (   I) =   56190.3123
TABULAR  (  II) =    3536.4820
   23.54600 sec =       0.2870
         (  II) =    3536.7690
TABULAR  ( III) =       2.0978
 N' = (I) + (II)p^2 + (III)p^4 =  56371.563 m
 N  =  N_b + N' =  4000000 + 56371.563 =  4056371.563 m


TABULAR  (  IV) =  252779.2995
   23.54600 sec =     -20.3062
   SECOND DIFF  =       0.0026
         (  IV) =  252758.9958
TABULAR  (   V) =      33.3517
   23.54600 sec =      -0.0241
         (   V) =      33.3276
TABULAR  (  VI) =      -0.0197
 E' = (IV)p +(V)p^3 + (VI)p^5 = -57218.831 m
 E = E_0 + E' =                 742781.169 m


TABULAR  ( XII) =    5771.4519
   23.54600 sec =       0.9321
         ( XII) =    5772.3840
TABULAR  (XIII) =       3.0564
C = (XII)p + (XIII)p^3 =    -1306".76


  q  = 10^-6 E'   =  -0.05721883
TABULAR  ( XVI) =     0.012321
k = k_0(1 + (XVI)q^2 + 0.00003q^4) =  0.99994034
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05721883$
$\phi' = 35°15'29''.42788$

TABULAR	(VII) =	1796.0814
29.42788 sec	=	0.5405
	(VII) =	1796.6220
TABULAR	(VIII) =	23.8026
29.42788 sec	=	0.0104
	(VIII) =	23.8130

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 35°15'23''.54600$

TABULAR	(IX) =	39560.2014
29.42788 sec	=	3.9726
SECOND DIFF	=	-0.0008
	(IX) =	39564.1732
TABULAR	(X) =	324.0492
29.42788 sec	=	0.1300
	(X) =	324.1792
TABULAR	(XI) =	4.9634
29.42788 sec	=	0.0036
	(XI) =	4.9670

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 119°12'43''.75499$

TABULAR	(XIV) =	22831.9800
29.42788 sec	=	6.9024
SECOND DIFF	=	-0.0007
	(XIV) =	22838.8817
TABULAR	(XV) =	279.1088
29.42788 sec	=	0.1408
	(XV) =	279.2496

$C = (XIV)q - (XV)q^3 = -1306''.76$

TABULAR (XVI) = 0.012321
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99994034$

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°45'	0.0000	30.812517	3513.9905	0.012783	2.119
	254321.6455	-0.851658	35.1965	-0.001027	-0.019
34°46'	1848.7510	30.812602	3514.7575	0.012763	2.118
	254270.5460	-0.852018	35.1349	-0.001027	-0.019
34°47'	3697.5072	30.812686	3515.5233	0.012743	2.117
	254219.4249	-0.852377	35.0733	-0.001027	-0.019
34°48'	5546.2683	30.812771	3516.2879	0.012723	2.117
	254168.2823	-0.852736	35.0117	-0.001026	-0.019
34°49'	7395.0346	30.812856	3517.0513	0.012704	2.116
	254117.1182	-0.853095	34.9501	-0.001026	-0.019
34°50'	9243.8059	30.812940	3517.8135	0.012684	2.115
	254065.9324	-0.853454	34.8886	-0.001026	-0.019
34°51'	11092.5823	30.813025	3518.5745	0.012664	2.115
	254014.7252	-0.853813	34.8270	-0.001026	-0.019
34°52'	12941.3638	30.813109	3519.3344	0.012644	2.114
	253963.4964	-0.854172	34.7654	-0.001026	-0.019
34°53'	14790.1504	30.813194	3520.0930	0.012624	2.113
	253912.2461	-0.854531	34.7039	-0.001026	-0.019
34°54'	16638.9420	30.813279	3520.8505	0.012605	2.113
	253860.9742	-0.854890	34.6423	-0.001026	-0.019
34°55'	18487.7388	30.813363	3521.6068	0.012585	2.112
	253809.6808	-0.855248	34.5808	-0.001026	-0.019
34°56'	20336.5406	30.813448	3522.3618	0.012565	2.111
	253758.3659	-0.855607	34.5193	-0.001025	-0.019
34°57'	22185.3474	30.813533	3523.1157	0.012545	2.111
	253707.0295	-0.855966	34.4577	-0.001025	-0.019
34°58'	24034.1594	30.813617	3523.8684	0.012525	2.110
	253655.6716	-0.856324	34.3962	-0.001025	-0.019
34°59'	25882.9764	30.813702	3524.6200	0.012505	2.109
	253604.2921	-0.856682	34.3347	-0.001025	-0.019
35° 0'	27731.7986	30.813787	3525.3703	0.012486	2.108
	253552.8912	-0.857041	34.2732	-0.001025	-0.019
35° 1'	29580.6258	30.813872	3526.1194	0.012466	2.108
	253501.4688	-0.857399	34.2117	-0.001025	-0.019
35° 2'	31429.4581	30.813957	3526.8674	0.012446	2.107
	253450.0248	-0.857757	34.1502	-0.001025	-0.019
35° 3'	33278.2955	30.814041	3527.6141	0.012426	2.106
	253398.5594	-0.858115	34.0888	-0.001024	-0.019
35° 4'	35127.1380	30.814126	3528.3597	0.012406	2.106
	253347.0725	-0.858473	34.0273	-0.001024	-0.019
35° 5'	36975.9855	30.814211	3529.1040	0.012386	2.105
	253295.5641	-0.858831	33.9658	-0.001024	-0.019
35° 6'	38824.8382	30.814296	3529.8472	0.012366	2.104
	253244.0342	-0.859189	33.9044	-0.001024	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35° 7'	40673.6960	30.814381	3530.5892	0.012346	2.104
	253192.4829	-0.859547	33.8429	-0.001024	-0.019
35° 8'	42522.5588	30.814466	3531.3300	0.012327	2.103
	253140.9100	-0.859905	33.7815	-0.001024	-0.019
35° 9'	44371.4268	30.814551	3532.0696	0.012307	2.102
	253089.3157	-0.860262	33.7201	-0.001024	-0.020
35°10'	46220.2998	30.814636	3532.8080	0.012287	2.101
	253037.7000	-0.860620	33.6587	-0.001024	-0.020
35°11'	48069.1779	30.814721	3533.5452	0.012267	2.101
	252986.0628	-0.860978	33.5972	-0.001023	-0.020
35°12'	49918.0612	30.814806	3534.2812	0.012247	2.100
	252934.4041	-0.861335	33.5358	-0.001023	-0.020
35°13'	51766.9495	30.814891	3535.0160	0.012227	2.099
	252882.7240	-0.861693	33.4744	-0.001023	-0.020
35°14'	53615.8429	30.814976	3535.7496	0.012207	2.099
	252831.0225	-0.862050	33.4131	-0.001023	-0.020
35°15'	55464.7415	30.815061	3536.4820	0.012187	2.098
	252779.2995	-0.862407	33.3517	-0.001023	-0.020
35°16'	57313.6451	30.815146	3537.2133	0.012167	2.097
	252727.5551	-0.862764	33.2903	-0.001023	-0.020
35°17'	59162.5538	30.815231	3537.9433	0.012147	2.096
	252675.7892	-0.863121	33.2289	-0.001023	-0.020
35°18'	61011.4677	30.815316	3538.6722	0.012127	2.096
	252624.0019	-0.863479	33.1676	-0.001022	-0.020
35°19'	62860.3866	30.815401	3539.3998	0.012108	2.095
	252572.1932	-0.863836	33.1062	-0.001022	-0.020
35°20'	64709.3107	30.815486	3540.1263	0.012088	2.094
	252520.3631	-0.864192	33.0449	-0.001022	-0.020
35°21'	66558.2399	30.815571	3540.8515	0.012068	2.093
	252468.5115	-0.864549	32.9836	-0.001022	-0.020
35°22'	68407.1741	30.815656	3541.5756	0.012048	2.093
	252416.6386	-0.864906	32.9223	-0.001022	-0.020
35°23'	70256.1135	30.815742	3542.2984	0.012028	2.092
	252364.7442	-0.865263	32.8609	-0.001022	-0.020
35°24'	72105.0580	30.815827	3543.0201	0.012008	2.091
	252312.8284	-0.865619	32.7996	-0.001022	-0.020
35°25'	73954.0076	30.815912	3543.7406	0.011988	2.091
	252260.8913	-0.865976	32.7383	-0.001021	-0.020
35°26'	75802.9623	30.815997	3544.4598	0.011968	2.090
	252208.9327	-0.866332	32.6771	-0.001021	-0.020
35°27'	77651.9222	30.816082	3545.1779	0.011948	2.089
	252156.9528	-0.866689	32.6158	-0.001021	-0.020
35°28'	79500.8871	30.816168	3545.8948	0.011928	2.088
	252104.9515	-0.867045	32.5545	-0.001021	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°29'	81349.8572	30.816253	3546.6105	0.011908	2.088
	252052.9287	-0.867401	32.4933	-0.001021	-0.020
35°30'	83198.8323	30.816338	3547.3249	0.011888	2.087
	252000.8847	-0.867758	32.4320	-0.001021	-0.020
35°31'	85047.8126	30.816424	3548.0382	0.011868	2.086
	251948.8192	-0.868114	32.3708	-0.001021	-0.020
35°32'	86896.7981	30.816509	3548.7503	0.011848	2.085
	251896.7324	-0.868470	32.3095	-0.001020	-0.020
35°33'	88745.7886	30.816594	3549.4612	0.011828	2.085
	251844.6242	-0.868826	32.2483	-0.001020	-0.020
35°34'	90594.7842	30.816680	3550.1709	0.011808	2.084
	251792.4946	-0.869182	32.1871	-0.001020	-0.020
35°35'	92443.7850	30.816765	3550.8794	0.011788	2.083
	251740.3437	-0.869538	32.1259	-0.001020	-0.020
35°36'	94292.7909	30.816850	3551.5866	0.011768	2.082
	251688.1714	-0.869893	32.0647	-0.001020	-0.020
35°37'	96141.8020	30.816936	3552.2927	0.011748	2.082
	251635.9778	-0.870249	32.0035	-0.001020	-0.020
35°38'	97990.8181	30.817021	3552.9976	0.011728	2.081
	251583.7629	-0.870605	31.9423	-0.001019	-0.020
35°39'	99839.8394	30.817107	3553.7013	0.011708	2.080
	251531.5266	-0.870960	31.8812	-0.001019	-0.021
35°40'	101688.8658	30.817192	3554.4038	0.011688	2.079
	251479.2690	-0.871316	31.8200	-0.001019	-0.021
35°41'	103537.8973	30.817278	3555.1050	0.011668	2.079
	251426.9900	-0.871671	31.7589	-0.001019	-0.021
35°42'	105386.9340	30.817363	3555.8051	0.011648	2.078
	251374.6897	-0.872027	31.6977	-0.001019	-0.021
35°43'	107235.9758	30.817449	3556.5040	0.011628	2.077
	251322.3681	-0.872382	31.6366	-0.001019	-0.021
35°44'	109085.0227	30.817534	3557.2017	0.011608	2.076
	251270.0252	-0.872737	31.5755	-0.001019	-0.021
35°45'	110934.0748	30.817620	3557.8981	0.011588	2.076
	251217.6610	-0.873092	31.5144	-0.001018	-0.021
35°46'	112783.1320	30.817705	3558.5934	0.011568	2.075
	251165.2755	-0.873447	31.4533	-0.001018	-0.021
35°47'	114632.1943	30.817791	3559.2875	0.011548	2.074
	251112.8686	-0.873802	31.3922	-0.001018	-0.021
35°48'	116481.2618	30.817877	3559.9804	0.011528	2.073
	251060.4405	-0.874157	31.3311	-0.001018	-0.021
35°49'	118330.3344	30.817962	3560.6720	0.011508	2.072
	251007.9910	-0.874512	31.2700	-0.001018	-0.021
35°50'	120179.4121	30.818048	3561.3625	0.011488	2.072
	250955.5203	-0.874867	31.2089	-0.001018	-0.021

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°51'	122028.4950	30.818134	3562.0517	0.011468	2.071
	250903.0283	-0.875222	31.1479	-0.001017	-0.021
35°52'	123877.5830	30.818219	3562.7398	0.011447	2.070
	250850.5150	-0.875576	31.0869	-0.001017	-0.021
35°53'	125726.6762	30.818305	3563.4266	0.011427	2.069
	250797.9804	-0.875931	31.0258	-0.001017	-0.021
35°54'	127575.7745	30.818391	3564.1123	0.011407	2.069
	250745.4246	-0.876285	30.9648	-0.001017	-0.021
35°55'	129424.8779	30.818476	3564.7967	0.011387	2.068
	250692.8474	-0.876640	30.9038	-0.001017	-0.021
35°56'	131273.9865	30.818562	3565.4799	0.011367	2.067
	250640.2490	-0.876994	30.8428	-0.001017	-0.021
35°57'	133123.1002	30.818648	3566.1620	0.011347	2.066
	250587.6294	-0.877348	30.7818	-0.001016	-0.021
35°58'	134972.2191	30.818734	3566.8428	0.011327	2.065
	250534.9885	-0.877703	30.7208	-0.001016	-0.021
35°59'	136821.3431	30.818820	3567.5224	0.011307	2.065
	250482.3263	-0.878057	30.6598	-0.001016	-0.021
36° 0'	138670.4723	30.818905	3568.2008	0.011287	2.064
	250429.6429	-0.878411	30.5989	-0.001016	-0.021
36° 1'	140519.6066	30.818991	3568.8780	0.011267	2.063
	250376.9383	-0.878765	30.5379	-0.001016	-0.021
36° 2'	142368.7461	30.819077	3569.5540	0.011247	2.062
	250324.2124	-0.879119	30.4770	-0.001016	-0.021
36° 3'	144217.8907	30.819163	3570.2288	0.011226	2.062
	250271.4653	-0.879473	30.4160	-0.001015	-0.021
36° 4'	146067.0405	30.819249	3570.9024	0.011206	2.061
	250218.6969	-0.879826	30.3551	-0.001015	-0.021
36° 5'	147916.1954	30.819335	3571.5748	0.011186	2.060
	250165.9073	-0.880180	30.2942	-0.001015	-0.021
36° 6'	149765.3555	30.819421	3572.2460	0.011166	2.059
	250113.0965	-0.880534	30.2333	-0.001015	-0.021
36° 7'	151614.5207	30.819507	3572.9160	0.011146	2.058
	250060.2645	-0.880887	30.1724	-0.001015	-0.021
36° 8'	153463.6911	30.819592	3573.5847	0.011126	2.058
	250007.4113	-0.881241	30.1115	-0.001015	-0.021
36° 9'	155312.8667	30.819678	3574.2523	0.011106	2.057
	249954.5368	-0.881594	30.0506	-0.001014	-0.022
36°10'	157162.0474	30.819764	3574.9186	0.011086	2.056
	249901.6412	-0.881948	29.9898	-0.001014	-0.022
36°11'	159011.2332	30.819850	3575.5838	0.011065	2.055
	249848.7243	-0.882301	29.9289	-0.001014	-0.022
36°12'	160860.4243	30.819936	3576.2477	0.011045	2.054
	249795.7863	-0.882654	29.8681	-0.001014	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0026

Transverse Mercator projection tables

NEVADA — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°13'	162709.6204	30.820022	3576.9104	0.011025	2.054
	249742.8270	-0.883007	29.8073	-0.001014	-0.022
36°14'	164558.8218	30.820108	3577.5719	0.011005	2.053
	249689.8466	-0.883360	29.7465	-0.001013	-0.022
36°15'	166408.0283	30.820195	3578.2322	0.010985	2.052
	249636.8450	-0.883713	29.6856	-0.001013	-0.022
36°16'	168257.2400	30.820281	3578.8913	0.010965	2.051
	249583.8222	-0.884066	29.6248	-0.001013	-0.022
36°17'	170106.4568	30.820367	3579.5492	0.010945	2.050
	249530.7782	-0.884419	29.5641	-0.001013	-0.022
36°18'	171955.6788	30.820453	3580.2059	0.010924	2.050
	249477.7131	-0.884772	29.5033	-0.001013	-0.022
36°19'	173804.9060	30.820539	3580.8613	0.010904	2.049
	249424.6268	-0.885124	29.4425	-0.001013	-0.022
36°20'	175654.1383	30.820625	3581.5156	0.010884	2.048
	249371.5193	-0.885477	29.3818	-0.001012	-0.022
36°21'	177503.3758	30.820711	3582.1686	0.010864	2.047
	249318.3907	-0.885830	29.3210	-0.001012	-0.022
36°22'	179352.6185	30.820797	3582.8205	0.010844	2.046
	249265.2409	-0.886182	29.2603	-0.001012	-0.022
36°23'	181201.8663	30.820884	3583.4711	0.010824	2.046
	249212.0700	-0.886534	29.1996	-0.001012	-0.022
36°24'	183051.1193	30.820970	3584.1205	0.010803	2.045
	249158.8779	-0.886887	29.1389	-0.001012	-0.022
36°25'	184900.3775	30.821056	3584.7687	0.010783	2.044
	249105.6647	-0.887239	29.0782	-0.001011	-0.022
36°26'	186749.6409	30.821142	3585.4157	0.010763	2.043
	249052.4304	-0.887591	29.0175	-0.001011	-0.022
36°27'	188598.9094	30.821228	3586.0615	0.010743	2.042
	248999.1749	-0.887943	28.9568	-0.001011	-0.022
36°28'	190448.1831	30.821315	3586.7060	0.010723	2.041
	248945.8983	-0.888295	28.8961	-0.001011	-0.022
36°29'	192297.4620	30.821401	3587.3494	0.010702	2.041
	248892.6006	-0.888647	28.8355	-0.001011	-0.022
36°30'	194146.7461	30.821487	3587.9915	0.010682	2.040
	248839.2817	-0.888999	28.7748	-0.001011	-0.022
36°31'	195996.0353	30.821574	3588.6324	0.010662	2.039
	248785.9418	-0.889351	28.7142	-0.001010	-0.022
36°32'	197845.3297	30.821660	3589.2722	0.010642	2.038
	248732.5807	-0.889703	28.6536	-0.001010	-0.022
36°33'	199694.6293	30.821746	3589.9107	0.010621	2.037
	248679.1985	-0.890055	28.5930	-0.001010	-0.022
36°34'	201543.9341	30.821833	3590.5479	0.010601	2.037
	248625.7953	-0.890406	28.5324	-0.001010	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°35'	203393.2441	30.821919	3591.1840	0.010581	2.036
	248572.3709	-0.890758	28.4718	-0.001010	-0.022
36°36'	205242.5592	30.822005	3591.8189	0.010561	2.035
	248518.9254	-0.891109	28.4112	-0.001009	-0.022
36°37'	207091.8796	30.822092	3592.4525	0.010541	2.034
	248465.4589	-0.891461	28.3507	-0.001009	-0.022
36°38'	208941.2051	30.822178	3593.0850	0.010520	2.033
	248411.9713	-0.891812	28.2901	-0.001009	-0.022
36°39'	210790.5358	30.822265	3593.7162	0.010500	2.032
	248358.4625	-0.892163	28.2296	-0.001009	-0.022
36°40'	212639.8717	30.822351	3594.3462	0.010480	2.032
	248304.9328	-0.892514	28.1690	-0.001009	-0.022
36°41'	214489.2127	30.822438	3594.9750	0.010460	2.031
	248251.3819	-0.892865	28.1085	-0.001008	-0.022
36°42'	216338.5590	30.822524	3595.6026	0.010439	2.030
	248197.8100	-0.893216	28.0480	-0.001008	-0.023
36°43'	218187.9104	30.822611	3596.2289	0.010419	2.029
	248144.2170	-0.893567	27.9875	-0.001008	-0.023
36°44'	220037.2671	30.822697	3596.8541	0.010399	2.028
	248090.6030	-0.893918	27.9271	-0.001008	-0.023
36°45'	221886.6289	30.822784	3597.4780	0.010379	2.027
	248036.9679	-0.894269	27.8666	-0.001008	-0.023
36°46'	223735.9959	30.822870	3598.1007	0.010358	2.026
	247983.3117	-0.894620	27.8061	-0.001007	-0.023
36°47'	225585.3681	30.822957	3598.7222	0.010338	2.026
	247929.6346	-0.894970	27.7457	-0.001007	-0.023
36°48'	227434.7456	30.823043	3599.3425	0.010318	2.025
	247875.9363	-0.895321	27.6852	-0.001007	-0.023
36°49'	229284.1282	30.823130	3599.9615	0.010297	2.024
	247822.2171	-0.895671	27.6248	-0.001007	-0.023
36°50'	231133.5160	30.823217	3600.5794	0.010277	2.023
	247768.4768	-0.896022	27.5644	-0.001007	-0.023
36°51'	232982.9090	30.823303	3601.1960	0.010257	2.022
	247714.7155	-0.896372	27.5040	-0.001006	-0.023
36°52'	234832.3071	30.823390	3601.8114	0.010237	2.021
	247660.9331	-0.896723	27.4436	-0.001006	-0.023
36°53'	236681.7105	30.823477	3602.4256	0.010216	2.021
	247607.1298	-0.897073	27.3833	-0.001006	-0.023
36°54'	238531.1191	30.823563	3603.0386	0.010196	2.020
	247553.3054	-0.897423	27.3229	-0.001006	-0.023
36°55'	240380.5329	30.823650	3603.6504	0.010176	2.019
	247499.4601	-0.897773	27.2626	-0.001006	-0.023
36°56'	242229.9519	30.823737	3604.2609	0.010155	2.018
	247445.5937	-0.898123	27.2022	-0.001005	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°57'	244079.3761	30.823823	3604.8702	0.010135	2.017
	247391.7063	-0.898473	27.1419	-0.001005	-0.023
36°58'	245928.8055	30.823910	3605.4783	0.010115	2.016
	247337.7979	-0.898823	27.0816	-0.001005	-0.023
36°59'	247778.2401	30.823997	3606.0852	0.010094	2.015
	247283.8686	-0.899172	27.0213	-0.001005	-0.023
37° 0'	249627.6799	30.824084	3606.6909	0.010074	2.015
	247229.9182	-0.899522	26.9610	-0.001005	-0.023
37° 1'	251477.1249	30.824170	3607.2953	0.010054	2.014
	247175.9469	-0.899872	26.9007	-0.001004	-0.023
37° 2'	253326.5751	30.824257	3607.8986	0.010033	2.013
	247121.9546	-0.900221	26.8405	-0.001004	-0.023
37° 3'	255176.0306	30.824344	3608.5006	0.010013	2.012
	247067.9413	-0.900571	26.7802	-0.001004	-0.023
37° 4'	257025.4912	30.824431	3609.1014	0.009993	2.011
	247013.9071	-0.900920	26.7200	-0.001004	-0.023
37° 5'	258874.9570	30.824518	3609.7009	0.009973	2.010
	246959.8518	-0.901270	26.6598	-0.001004	-0.023
37° 6'	260724.4281	30.824604	3610.2993	0.009952	2.009
	246905.7757	-0.901619	26.5996	-0.001003	-0.023
37° 7'	262573.9044	30.824691	3610.8964	0.009932	2.008
	246851.6785	-0.901968	26.5394	-0.001003	-0.023
37° 8'	264423.3858	30.824778	3611.4923	0.009911	2.008
	246797.5605	-0.902317	26.4792	-0.001003	-0.023
37° 9'	266272.8725	30.824865	3612.0870	0.009891	2.007
	246743.4214	-0.902666	26.4190	-0.001003	-0.023
37°10'	268122.3644	30.824952	3612.6805	0.009871	2.006
	246689.2615	-0.903015	26.3588	-0.001002	-0.023
37°11'	269971.8615	30.825039	3613.2727	0.009850	2.005
	246635.0806	-0.903364	26.2987	-0.001002	-0.023
37°12'	271821.3639	30.825126	3613.8637	0.009830	2.004
	246580.8787	-0.903713	26.2386	-0.001002	-0.023
37°13'	273670.8714	30.825213	3614.4535	0.009810	2.003
	246526.6560	-0.904062	26.1784	-0.001002	-0.023
37°14'	275520.3842	30.825300	3615.0421	0.009789	2.002
	246472.4123	-0.904410	26.1183	-0.001002	-0.023
37°15'	277369.9021	30.825387	3615.6295	0.009769	2.001
	246418.1476	-0.904759	26.0582	-0.001001	-0.023
37°16'	279219.4253	30.825474	3616.2156	0.009749	2.001
	246363.8621	-0.905107	25.9982	-0.001001	-0.024
37°17'	281068.9538	30.825561	3616.8005	0.009728	2.000
	246309.5557	-0.905456	25.9381	-0.001001	-0.024
37°18'	282918.4874	30.825648	3617.3842	0.009708	1.999
	246255.2283	-0.905804	25.8780	-0.001001	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°19'	284768.0263	30.825735	3617.9667	0.009687	1.998
	246200.8801	-0.906152	25.8180	-0.001000	-0.024
37°20'	286617.5703	30.825822	3618.5480	0.009667	1.997
	246146.5109	-0.906501	25.7580	-0.001000	-0.024
37°21'	288467.1197	30.825909	3619.1280	0.009647	1.996
	246092.1209	-0.906849	25.6979	-0.001000	-0.024
37°22'	290316.6742	30.825996	3619.7068	0.009626	1.995
	246037.7100	-0.907197	25.6379	-0.00100	-0.024
37°23'	292166.2339	30.826083	3620.2844	0.009606	1.994
	245983.2782	-0.907545	25.5780	-0.00100	-0.024
37°24'	294015.7989	30.826170	3620.8607	0.009586	1.993
	245928.8255	-0.907893	25.5180	-0.000999	-0.024
37°25'	295865.3691	30.826257	3621.4358	0.009565	1.993
	245874.3519	-0.908241	25.4580	-0.000999	-0.024
37°26'	297714.9446	30.826344	3622.0098	0.009545	1.992
	245819.8575	-0.908588	25.3981	-0.000999	-0.024
37°27'	299564.5252	30.826432	3622.5824	0.009524	1.991
	245765.3422	-0.908936	25.3381	-0.000999	-0.024
37°28'	301414.1111	30.826519	3623.1539	0.009504	1.990
	245710.8060	-0.909284	25.2782	-0.000998	-0.024
37°29'	303263.7022	30.826606	3623.7241	0.009483	1.989
	245656.2490	-0.909631	25.2183	-0.000998	-0.024
37°30'	305113.2986	30.826693	3624.2931	0.009463	1.988
	245601.6711	-0.909979	25.1584	-0.000998	-0.024
37°31'	306962.9002	30.826780	3624.8609	0.009443	1.987
	245547.0724	-0.910326	25.0985	-0.000998	-0.024
37°32'	308812.5070	30.826867	3625.4275	0.009422	1.986
	245492.4528	-0.910673	25.0387	-0.000998	-0.024
37°33'	310662.1190	30.826955	3625.9928	0.009402	1.985
	245437.8124	-0.911021	24.9788	-0.000997	-0.024
37°34'	312511.7363	30.827042	3626.5569	0.009381	1.984
	245383.1512	-0.911368	24.9190	-0.000997	-0.024
37°35'	314361.3588	30.827129	3627.1198	0.009361	1.984
	245328.4691	-0.911715	24.8591	-0.000997	-0.024
37°36'	316210.9866	30.827216	3627.6814	0.009340	1.983
	245273.7662	-0.912062	24.7993	-0.000997	-0.024
37°37'	318060.6196	30.827304	3628.2419	0.009320	1.982
	245219.0425	-0.912409	24.7395	-0.000996	-0.024
37°38'	319910.2578	30.827391	3628.8011	0.009300	1.981
	245164.2979	-0.912756	24.6797	-0.000996	-0.024
37°39'	321759.9013	30.827478	3629.3591	0.009279	1.980
	245109.5326	-0.913103	24.6200	-0.000996	-0.024
37°40'	323609.5500	30.827566	3629.9158	0.009259	1.979
	245054.7464	-0.913449	24.5602	-0.000996	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°41'	325459.2039	30.827653	3630.4713	0.009238	1.978
	244999.9395	-0.913796	24.5005	-0.000995	-0.024
37°42'	327308.8631	30.827740	3631.0256	0.009218	1.977
	244945.1117	-0.914143	24.4407	-0.000995	-0.024
37°43'	329158.5275	30.827828	3631.5787	0.009197	1.976
	244890.2632	-0.914489	24.3810	-0.000995	-0.024
37°44'	331008.1972	30.827915	3632.1305	0.009177	1.975
	244835.3938	-0.914836	24.3213	-0.000995	-0.024
37°45'	332857.8721	30.828003	3632.6811	0.009156	1.974
	244780.5037	-0.915182	24.2616	-0.000995	-0.024
37°46'	334707.5523	30.828090	3633.2305	0.009136	1.974
	244725.5928	-0.915528	24.2020	-0.000994	-0.024
37°47'	336557.2377	30.828177	3633.7787	0.009115	1.973
	244670.6611	-0.915874	24.1423	-0.000994	-0.024
37°48'	338406.9283	30.828265	3634.3256	0.009095	1.972
	244615.7086	-0.916220	24.0827	-0.000994	-0.024
37°49'	340256.6242	30.828352	3634.8713	0.009074	1.971
	244560.7354	-0.916567	24.0230	-0.000994	-0.024
37°50'	342106.3253	30.828440	3635.4158	0.009054	1.970
	244505.7414	-0.916912	23.9634	-0.000993	-0.024
37°51'	343956.0317	30.828527	3635.9590	0.009034	1.969
	244450.7267	-0.917258	23.9038	-0.000993	-0.024
37°52'	345805.7434	30.828615	3636.5010	0.009013	1.968
	244395.6912	-0.917604	23.8442	-0.000993	-0.024
37°53'	347655.4603	30.828702	3637.0418	0.008993	1.967
	244340.6349	-0.917950	23.7847	-0.000993	-0.025
37°54'	349505.1824	30.828790	3637.5814	0.008972	1.966
	244285.5579	-0.918296	23.7251	-0.000992	-0.025
37°55'	351354.9098	30.828877	3638.1197	0.008952	1.965
	244230.4602	-0.918641	23.6656	-0.000992	-0.025
37°56'	353204.6424	30.828965	3638.6568	0.008931	1.964
	244175.3417	-0.918987	23.6060	-0.000992	-0.025
37°57'	355054.3803	30.829052	3639.1926	0.008911	1.963
	244120.2025	-0.919332	23.5465	-0.000992	-0.025
37°58'	356904.1235	30.829140	3639.7273	0.008890	1.962
	244065.0426	-0.919678	23.4870	-0.000991	-0.025
37°59'	358753.8719	30.829228	3640.2607	0.008870	1.961
	244009.8619	-0.920023	23.4275	-0.000991	-0.025
38° 0'	360603.6255	30.829315	3640.7928	0.008849	1.961
	243954.6605	-0.920368	23.3681	-0.000991	-0.025
38° 1'	362453.3844	30.829403	3641.3238	0.008829	1.960
	243899.4384	-0.920713	23.3086	-0.000991	-0.025
38° 2'	364303.1486	30.829490	3641.8535	0.008808	1.959
	243844.1956	-0.921058	23.2492	-0.000990	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38° 3'	366152.9180	30.829578	3642.3820	0.008787	1.958
	243788.9321	-0.921403	23.1898	-0.000990	-0.025
38° 4'	368002.6927	30.829666	3642.9092	0.008767	1.957
	243733.6479	-0.921748	23.1304	-0.000990	-0.025
38° 5'	369852.4726	30.829753	3643.4352	0.008746	1.956
	243678.3431	-0.922093	23.0710	-0.000990	-0.025
38° 6'	371702.2578	30.829841	3643.9600	0.008726	1.955
	243623.0175	-0.922438	23.0116	-0.000989	-0.025
38° 7'	373552.0483	30.829929	3644.4836	0.008705	1.954
	243567.6712	-0.922783	22.9522	-0.000989	-0.025
38° 8'	375401.8440	30.830016	3645.0059	0.008685	1.953
	243512.3042	-0.923127	22.8929	-0.000989	-0.025
38° 9'	377251.6450	30.830104	3645.5270	0.008664	1.952
	243456.9166	-0.923472	22.8335	-0.000989	-0.025
38°10'	379101.4513	30.830192	3646.0468	0.008644	1.951
	243401.5083	-0.923816	22.7742	-0.000988	-0.025
38°11'	380951.2628	30.830280	3646.5655	0.008623	1.950
	243346.0793	-0.924161	22.7149	-0.000988	-0.025
38°12'	382801.0796	30.830367	3647.0829	0.008603	1.949
	243290.6297	-0.924505	22.6556	-0.000988	-0.025
38°13'	384650.9016	30.830455	3647.5990	0.008582	1.948
	243235.1594	-0.924849	22.5963	-0.000988	-0.025
38°14'	386500.7289	30.830543	3648.1139	0.008562	1.947
	243179.6685	-0.925193	22.5371	-0.000987	-0.025
38°15'	388350.5615	30.830631	3648.6276	0.008541	1.946
	243124.1569	-0.925537	22.4778	-0.000987	-0.025
38°16'	390200.3993	30.830719	3649.1401	0.008520	1.945
	243068.6246	-0.925881	22.4186	-0.000987	-0.025
38°17'	392050.2424	30.830806	3649.6513	0.008500	1.944
	243013.0718	-0.926225	22.3594	-0.000987	-0.025
38°18'	393900.0908	30.830894	3650.1613	0.008479	1.943
	242957.4982	-0.926569	22.3002	-0.000986	-0.025
38°19'	395749.9445	30.830982	3650.6701	0.008459	1.943
	242901.9041	-0.926913	22.2410	-0.000986	-0.025
38°20'	397599.8034	30.831070	3651.1776	0.008438	1.942
	242846.2893	-0.927257	22.1819	-0.000986	-0.025
38°21'	399449.6676	30.831158	3651.6839	0.008418	1.941
	242790.6539	-0.927600	22.1227	-0.000986	-0.025
38°22'	401299.5371	30.831246	3652.1889	0.008397	1.940
	242734.9979	-0.927944	22.0636	-0.000985	-0.025
38°23'	403149.4118	30.831334	3652.6927	0.008376	1.939
	242679.3213	-0.928287	22.0045	-0.000985	-0.025
38°24'	404999.2918	30.831421	3653.1953	0.008356	1.938
	242623.6240	-0.928631	21.9453	-0.000985	-0.025

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°25'	406849.1771	30.831509	3653.6967	0.008335	1.937
	242567.9062	-0.928974	21.8863	-0.000985	-0.025
38°26'	408699.0677	30.831597	3654.1968	0.008315	1.936
	242512.1678	-0.929317	21.8272	-0.000984	-0.025
38°27'	410548.9635	30.831685	3654.6957	0.008294	1.935
	242456.4087	-0.929660	21.7681	-0.000984	-0.025
38°28'	412398.8646	30.831773	3655.1933	0.008273	1.934
	242400.6291	-0.930004	21.7091	-0.000984	-0.025
38°29'	414248.7710	30.831861	3655.6897	0.008253	1.933
	242344.8289	-0.930347	21.6501	-0.000983	-0.025
38°30'	416098.6827	30.831949	3656.1849	0.008232	1.932
	242289.0081	-0.930689	21.5911	-0.000983	-0.025
38°31'	417948.5996	30.832037	3656.6788	0.008212	1.931
	242233.1667	-0.931032	21.5321	-0.000983	-0.025
38°32'	419798.5218	30.832125	3657.1715	0.008191	1.930
	242177.3048	-0.931375	21.4731	-0.000983	-0.025
38°33'	421648.4493	30.832213	3657.6630	0.008170	1.929
	242121.4223	-0.931718	21.4141	-0.000982	-0.026
38°34'	423498.3821	30.832301	3658.1532	0.008150	1.928
	242065.5192	-0.932060	21.3552	-0.000982	-0.026
38°35'	425348.3202	30.832389	3658.6422	0.008129	1.927
	242009.5956	-0.932403	21.2963	-0.000982	-0.026
38°36'	427198.2635	30.832477	3659.1300	0.008109	1.926
	241953.6514	-0.932746	21.2373	-0.000982	-0.026
38°37'	429048.2122	30.832565	3659.6165	0.008088	1.925
	241897.6866	-0.933088	21.1784	-0.000981	-0.026
38°38'	430898.1661	30.832653	3660.1018	0.008067	1.924
	241841.7014	-0.933430	21.1196	-0.000981	-0.026
38°39'	432748.1253	30.832741	3660.5858	0.008047	1.923
	241785.6956	-0.933773	21.0607	-0.000981	-0.026
38°40'	434598.0898	30.832830	3661.0686	0.008026	1.922
	241729.6692	-0.934115	21.0018	-0.000981	-0.026
38°41'	436448.0596	30.832918	3661.5502	0.008005	1.921
	241673.6223	-0.934457	20.9430	-0.000980	-0.026
38°42'	438298.0346	30.833006	3662.0305	0.007985	1.920
	241617.5549	-0.934799	20.8842	-0.000980	-0.026
38°43'	440148.0150	30.833094	3662.5096	0.007964	1.919
	241561.4670	-0.935141	20.8254	-0.000980	-0.026
38°44'	441998.0006	30.833182	3662.9874	0.007944	1.918
	241505.3585	-0.935483	20.7666	-0.000979	-0.026
38°45'	443847.9915	30.833270	3663.4640	0.007923	1.917
	241449.2296	-0.935824	20.7079	-0.000979	-0.026
38°46'	445697.9878	30.833358	3663.9394	0.007902	1.916
	241393.0801	-0.936166	20.6491	-0.000979	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0026

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°47'	447547.9893	30.833447	3664.4136	0.007882	1.915
	241336.9101	-0.936508	20.5904	-0.000979	-0.026
38°48'	449397.9961	30.833535	3664.8864	0.007861	1.914
	241280.7197	-0.936849	20.5317	-0.000978	-0.026
38°49'	451248.0081	30.833623	3665.3581	0.007840	1.913
	241224.5087	-0.937191	20.4730	-0.000978	-0.026
38°50'	453098.0255	30.833711	3665.8285	0.007820	1.912
	241168.2773	-0.937532	20.4143	-0.000978	-0.026
38°51'	454948.0482	30.833799	3666.2977	0.007799	1.911
	241112.0253	-0.937874	20.3556	-0.000978	-0.026
38°52'	456798.0762	30.833888	3666.7656	0.007778	1.910
	241055.7529	-0.938215	20.2970	-0.000977	-0.026
38°53'	458648.1094	30.833976	3667.2323	0.007758	1.909
	240999.4600	-0.938556	20.2383	-0.000977	-0.026
38°54'	460498.1480	30.834064	3667.6978	0.007737	1.908
	240943.1467	-0.938897	20.1797	-0.000977	-0.026
38°55'	462348.1918	30.834152	3668.1620	0.007716	1.907
	240886.8128	-0.939238	20.1211	-0.000976	-0.026
38°56'	464198.2410	30.834241	3668.6250	0.007696	1.906
	240830.4585	-0.939579	20.0625	-0.000976	-0.026
38°57'	466048.2954	30.834329	3669.0867	0.007675	1.905
	240774.0838	-0.939920	20.0040	-0.000976	-0.026
38°58'	467898.3552	30.834417	3669.5472	0.007654	1.904
	240717.6886	-0.940261	19.9454	-0.000976	-0.026
38°59'	469748.4202	30.834506	3670.0065	0.007634	1.903
	240661.2730	-0.940601	19.8869	-0.000975	-0.026
39° 0'	471598.4906	30.834594	3670.4645	0.007613	1.902
	240604.8369	-0.940942	19.8284	-0.000975	-0.026
39° 1'	473448.5662	30.834682	3670.9213	0.007592	1.901
	240548.3803	-0.941283	19.7699	-0.000975	-0.026
39° 2'	475298.6472	30.834771	3671.3768	0.007572	1.900
	240491.9034	-0.941623	19.7114	-0.000974	-0.026
39° 3'	477148.7334	30.834859	3671.8311	0.007551	1.899
	240435.4060	-0.941964	19.6529	-0.000974	-0.026
39° 4'	478998.8249	30.834947	3672.2842	0.007530	1.898
	240378.8882	-0.942304	19.5945	-0.000974	-0.026
39° 5'	480848.9218	30.835036	3672.7360	0.007509	1.897
	240322.3500	-0.942644	19.5360	-0.000974	-0.026
39° 6'	482699.0239	30.835124	3673.1865	0.007489	1.896
	240265.7913	-0.942984	19.4776	-0.000973	-0.026
39° 7'	484549.1314	30.835213	3673.6359	0.007468	1.895
	240209.2123	-0.943324	19.4192	-0.000973	-0.026
39° 8'	486399.2442	30.835301	3674.0839	0.007447	1.894
	240152.6128	-0.943664	19.3608	-0.000973	-0.026

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39° 9'	488249.3622	30.835390	3674.5308	0.007427	1.893
	240095.9929	-0.944004	19.3025	-0.000972	-0.026
39°10'	490099.4856	30.835478	3674.9764	0.007406	1.892
	240039.3527	-0.944344	19.2441	-0.000972	-0.026
39°11'	491949.6143	30.835566	3675.4207	0.007385	1.891
	239982.6920	-0.944684	19.1858	-0.000972	-0.026
39°12'	493799.7483	30.835655	3675.8639	0.007365	1.890
	239926.0110	-0.945024	19.1275	-0.000972	-0.026
39°13'	495649.8876	30.835743	3676.3057	0.007344	1.889
	239869.3096	-0.945363	19.0692	-0.000971	-0.026
39°14'	497500.0322	30.835832	3676.7464	0.007323	1.888
	239812.5878	-0.945703	19.0109	-0.000971	-0.026
39°15'	499350.1821	30.835920	3677.1857	0.007302	1.887
	239755.8456	-0.946042	18.9527	-0.000971	-0.026
39°16'	501200.3373	30.836009	3677.6239	0.007282	1.886
	239699.0830	-0.946382	18.8944	-0.000970	-0.026
39°17'	503050.4978	30.836097	3678.0608	0.007261	1.885
	239642.3001	-0.946721	18.8362	-0.000970	-0.027
39°18'	504900.6637	30.836186	3678.4964	0.007240	1.884
	239585.4969	-0.947060	18.7780	-0.000970	-0.027
39°19'	506750.8348	30.836274	3678.9309	0.007219	1.883
	239528.6733	-0.947399	18.7198	-0.000969	-0.027
39°20'	508601.0113	30.836363	3679.3640	0.007199	1.882
	239471.8293	-0.947739	18.6617	-0.000969	-0.027
39°21'	510451.1931	30.836452	3679.7959	0.007178	1.881
	239414.9650	-0.948078	18.6035	-0.000969	-0.027
39°22'	512301.3802	30.836540	3680.2266	0.007157	1.880
	239358.0803	-0.948416	18.5454	-0.000969	-0.027
39°23'	514151.5726	30.836629	3680.6561	0.007136	1.879
	239301.1753	-0.948755	18.4873	-0.000968	-0.027
39°24'	516001.7703	30.836717	3681.0842	0.007116	1.878
	239244.2500	-0.949094	18.4292	-0.000968	-0.027
39°25'	517851.9734	30.836806	3681.5112	0.007095	1.877
	239187.3044	-0.949433	18.3711	-0.000968	-0.027
39°26'	519702.1817	30.836895	3681.9369	0.007074	1.876
	239130.3384	-0.949771	18.3130	-0.000967	-0.027
39°27'	521552.3954	30.836983	3682.3613	0.007053	1.875
	239073.3521	-0.950110	18.2550	-0.000967	-0.027
39°28'	523402.6144	30.837072	3682.7846	0.007033	1.874
	239016.3455	-0.950448	18.1970	-0.000967	-0.027
39°29'	525252.8387	30.837161	3683.2065	0.007012	1.873
	238959.3186	-0.950787	18.1390	-0.000966	-0.027
39°30'	527103.0683	30.837249	3683.6272	0.006991	1.872
	238902.2714	-0.951125	18.0810	-0.000966	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°31'	528953.3033	30.837338	3684.0467	0.006970	1.871
	238845.2039	-0.951463	18.0230	-0.000966	-0.027
39°32'	530803.5435	30.837427	3684.4649	0.006950	1.870
	238788.1161	-0.951801	17.9651	-0.000966	-0.027
39°33'	532653.7891	30.837515	3684.8819	0.006929	1.868
	238731.0080	-0.952140	17.9071	-0.000965	-0.027
39°34'	534504.0401	30.837604	3685.2977	0.006908	1.867
	238673.8797	-0.952478	17.8492	-0.000965	-0.027
39°35'	536354.2963	30.837693	3685.7121	0.006887	1.866
	238616.7310	-0.952815	17.7913	-0.000965	-0.027
39°36'	538204.5578	30.837781	3686.1254	0.006867	1.865
	238559.5621	-0.953153	17.7334	-0.000964	-0.027
39°37'	540054.8247	30.837870	3686.5374	0.006846	1.864
	238502.3729	-0.953491	17.6756	-0.000964	-0.027
39°38'	541905.0969	30.837959	3686.9481	0.006825	1.863
	238445.1634	-0.953829	17.6177	-0.000964	-0.027
39°39'	543755.3745	30.838048	3687.3576	0.006804	1.862
	238387.9337	-0.954166	17.5599	-0.000963	-0.027
39°40'	545605.6573	30.838136	3687.7659	0.006784	1.861
	238330.6837	-0.954504	17.5021	-0.000963	-0.027
39°41'	547455.9455	30.838225	3688.1729	0.006763	1.860
	238273.4135	-0.954841	17.4443	-0.000963	-0.027
39°42'	549306.2390	30.838314	3688.5787	0.006742	1.859
	238216.1230	-0.955179	17.3865	-0.000963	-0.027
39°43'	551156.5378	30.838403	3688.9832	0.006721	1.858
	238158.8123	-0.955516	17.3288	-0.000962	-0.027
39°44'	553006.8420	30.838491	3689.3865	0.006700	1.857
	238101.4813	-0.955853	17.2711	-0.000962	-0.027
39°45'	554857.1515	30.838580	3689.7885	0.006680	1.856
	238044.1302	-0.956190	17.2133	-0.000962	-0.027
39°46'	556707.4663	30.838669	3690.1892	0.006659	1.855
	237986.7587	-0.956527	17.1556	-0.000961	-0.027
39°47'	558557.7864	30.838758	3690.5888	0.006638	1.854
	237929.3671	-0.956864	17.0980	-0.000961	-0.027
39°48'	560408.1119	30.838847	3690.9871	0.006617	1.853
	237871.9553	-0.957201	17.0403	-0.000961	-0.027
39°49'	562258.4427	30.838936	3691.3841	0.006596	1.852
	237814.5232	-0.957538	16.9827	-0.000960	-0.027
39°50'	564108.7789	30.839025	3691.7799	0.006576	1.851
	237757.0709	-0.957875	16.9251	-0.000960	-0.027
39°51'	565959.1203	30.839113	3692.1744	0.006555	1.850
	237699.5984	-0.958211	16.8675	-0.000960	-0.027
39°52'	567809.4671	30.839202	3692.5677	0.006534	1.849
	237642.1057	-0.958548	16.8099	-0.000959	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°53'	569659.8193	30.839291	3692.9597	0.006513	1.847
	237584.5929	-0.958884	16.7523	-0.000959	-0.027
39°54'	571510.1768	30.839380	3693.3505	0.006492	1.846
	237527.0598	-0.959221	16.6948	-0.000959	-0.027
39°55'	573360.5396	30.839469	3693.7400	0.006471	1.845
	237469.5066	-0.959557	16.6372	-0.000958	-0.027
39°56'	575210.9077	30.839558	3694.1283	0.006451	1.844
	237411.9331	-0.959893	16.5797	-0.000958	-0.027
39°57'	577061.2812	30.839647	3694.5154	0.006430	1.843
	237354.3395	-0.960230	16.5223	-0.000958	-0.027
39°58'	578911.6600	30.839736	3694.9012	0.006409	1.842
	237296.7258	-0.960566	16.4648	-0.000957	-0.027
39°59'	580762.0441	30.839825	3695.2857	0.006388	1.841
	237239.0918	-0.960902	16.4073	-0.000957	-0.027
40° 0'	582612.4336	30.839914	3695.6690	0.006367	1.840
	237181.4377	-0.961238	16.3499	-0.000957	-0.027
40° 1'	584462.8284	30.840003	3696.0510	0.006347	1.839
	237123.7634	-0.961574	16.2925	-0.000957	-0.027
40° 2'	586313.2286	30.840092	3696.4318	0.006326	1.838
	237066.0690	-0.961909	16.2351	-0.000956	-0.027
40° 3'	588163.6341	30.840181	3696.8114	0.006305	1.837
	237008.3545	-0.962245	16.1777	-0.000956	-0.027
40° 4'	590014.0449	30.840270	3697.1896	0.006284	1.836
	236950.6198	-0.962581	16.1204	-0.000956	-0.027
40° 5'	591864.4611	30.840359	3697.5667	0.006263	1.835
	236892.8649	-0.962916	16.0631	-0.000955	-0.027
40° 6'	593714.8826	30.840448	3697.9425	0.006242	1.834
	236835.0900	-0.963252	16.0057	-0.000955	-0.028
40° 7'	595565.3095	30.840537	3698.3170	0.006221	1.832
	236777.2949	-0.963587	15.9484	-0.000955	-0.028
40° 8'	597415.7417	30.840626	3698.6903	0.006201	1.831
	236719.4796	-0.963922	15.8912	-0.000954	-0.028
40° 9'	599266.1792	30.840715	3699.0623	0.006180	1.830
	236661.6443	-0.964258	15.8339	-0.000954	-0.028
40°10'	601116.6221	30.840804	3699.4331	0.006159	1.829
	236603.7888	-0.964593	15.7767	-0.000954	-0.028
40°11'	602967.0703	30.840893	3699.8027	0.006138	1.828
	236545.9133	-0.964928	15.7195	-0.000953	-0.028
40°12'	604817.5239	30.840982	3700.1710	0.006117	1.827
	236488.0176	-0.965263	15.6623	-0.000953	-0.028
40°13'	606667.9828	30.841071	3700.5380	0.006096	1.826
	236430.1018	-0.965598	15.6051	-0.000953	-0.028
40°14'	608518.4471	30.841160	3700.9038	0.006076	1.825
	236372.1660	-0.965933	15.5479	-0.000952	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°15'	610368.9167	30.841249	3701.2683	0.006055	1.824
	236314.2100	-0.966267	15.4908	-0.000952	-0.028
40°16'	612219.3916	30.841338	3701.6316	0.006034	1.823
	236256.2340	-0.966602	15.4337	-0.000952	-0.028
40°17'	614069.8719	30.841427	3701.9936	0.006013	1.822
	236198.2379	-0.966937	15.3766	-0.000951	-0.028
40°18'	615920.3576	30.841517	3702.3544	0.005992	1.821
	236140.2217	-0.967271	15.3195	-0.000951	-0.028
40°19'	617770.8486	30.841606	3702.7139	0.005971	1.820
	236082.1854	-0.967606	15.2625	-0.000951	-0.028
40°20'	619621.3449	30.841695	3703.0722	0.005950	1.818
	236024.1291	-0.967940	15.2054	-0.000950	-0.028
40°21'	621471.8466	30.841784	3703.4292	0.005929	1.817
	235966.0527	-0.968274	15.1484	-0.000950	-0.028
40°22'	623322.3536	30.841873	3703.7850	0.005909	1.816
	235907.9562	-0.968608	15.0914	-0.000950	-0.028
40°23'	625172.8660	30.841962	3704.1395	0.005888	1.815
	235849.8397	-0.968942	15.0344	-0.000949	-0.028
40°24'	627023.3838	30.842052	3704.4927	0.005867	1.814
	235791.7032	-0.969277	14.9775	-0.000949	-0.028
40°25'	628873.9069	30.842141	3704.8447	0.005846	1.813
	235733.5466	-0.969610	14.9205	-0.000949	-0.028
40°26'	630724.4353	30.842230	3705.1955	0.005825	1.812
	235675.3700	-0.969944	14.8636	-0.000948	-0.028
40°27'	632574.9691	30.842319	3705.5450	0.005804	1.811
	235617.1733	-0.970278	14.8067	-0.000948	-0.028
40°28'	634425.5082	30.842408	3705.8933	0.005783	1.810
	235558.9566	-0.970612	14.7498	-0.000948	-0.028
40°29'	636276.0527	30.842498	3706.2402	0.005762	1.809
	235500.7199	-0.970945	14.6930	-0.000947	-0.028
40°30'	638126.6026	30.842587	3706.5860	0.005741	1.807
	235442.4632	-0.971279	14.6361	-0.000947	-0.028
40°31'	639977.1578	30.842676	3706.9305	0.005721	1.806
	235384.1864	-0.971613	14.5793	-0.000947	-0.028
40°32'	641827.7184	30.842765	3707.2737	0.005700	1.805
	235325.8897	-0.971946	14.5225	-0.000946	-0.028
40°33'	643678.2843	30.842855	3707.6157	0.005679	1.804
	235267.5729	-0.972279	14.4658	-0.000946	-0.028
40°34'	645528.8556	30.842944	3707.9564	0.005658	1.803
	235209.2362	-0.972612	14.4090	-0.000946	-0.028
40°35'	647379.4322	30.843033	3708.2959	0.005637	1.802
	235150.8794	-0.972946	14.3523	-0.000945	-0.028
40°36'	649230.0142	30.843122	3708.6341	0.005616	1.801
	235092.5027	-0.973279	14.2955	-0.000945	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°37'	651080.6015	30.843212	3708.9711	0.005595	1.800
	235034.1059	-0.973612	14.2389	-0.000945	-0.028
40°38'	652931.1942	30.843301	3709.3068	0.005574	1.799
	234975.6892	-0.973945	14.1822	-0.000944	-0.028
40°39'	654781.7923	30.843390	3709.6412	0.005553	1.798
	234917.2526	-0.974277	14.1255	-0.000944	-0.028
40°40'	656632.3957	30.843480	3709.9744	0.005532	1.796
	234858.7959	-0.974610	14.0689	-0.000944	-0.028
40°41'	658483.0045	30.843569	3710.3064	0.005512	1.795
	234800.3193	-0.974943	14.0123	-0.000943	-0.028
40°42'	660333.6186	30.843658	3710.6371	0.005491	1.794
	234741.8227	-0.975275	13.9557	-0.000943	-0.028
40°43'	662184.2381	30.843748	3710.9665	0.005470	1.793
	234683.3062	-0.975608	13.8991	-0.000942	-0.028
40°44'	664034.8629	30.843837	3711.2947	0.005449	1.792
	234624.7697	-0.975940	13.8426	-0.000942	-0.028
40°45'	665885.4932	30.843926	3711.6216	0.005428	1.791
	234566.2133	-0.976273	13.7860	-0.000942	-0.028
40°46'	667736.1287	30.844016	3711.9473	0.005407	1.790
	234507.6369	-0.976605	13.7295	-0.000941	-0.028
40°47'	669586.7697	30.844105	3712.2717	0.005386	1.789
	234449.0406	-0.976937	13.6730	-0.000941	-0.028
40°48'	671437.4160	30.844194	3712.5949	0.005365	1.788
	234390.4244	-0.977269	13.6166	-0.000941	-0.028
40°49'	673288.0676	30.844284	3712.9168	0.005344	1.786
	234331.7882	-0.977601	13.5601	-0.000940	-0.028
40°50'	675138.7247	30.844373	3713.2374	0.005323	1.785
	234273.1321	-0.977933	13.5037	-0.000940	-0.028
40°51'	676989.3871	30.844463	3713.5568	0.005302	1.784
	234214.4561	-0.978265	13.4473	-0.000940	-0.028
40°52'	678840.0548	30.844552	3713.8750	0.005281	1.783
	234155.7602	-0.978597	13.3909	-0.000939	-0.028
40°53'	680690.7279	30.844641	3714.1918	0.005260	1.782
	234097.0444	-0.978929	13.3346	-0.000939	-0.028
40°54'	682541.4064	30.844731	3714.5075	0.005239	1.781
	234038.3087	-0.979260	13.2782	-0.000939	-0.028
40°55'	684392.0903	30.844820	3714.8218	0.005219	1.780
	233979.5531	-0.979592	13.2219	-0.000938	-0.028
40°56'	686242.7795	30.844910	3715.1349	0.005198	1.779
	233920.7775	-0.979923	13.1656	-0.000938	-0.028
40°57'	688093.4741	30.844999	3715.4468	0.005177	1.778
	233861.9821	-0.980255	13.1093	-0.000938	-0.028
40°58'	689944.1740	30.845089	3715.7574	0.005156	1.776
	233803.1669	-0.980586	13.0531	-0.000937	-0.028

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°59'	691794.8794	30.845178	3716.0667	0.005135	1.775
	233744.3317	-0.980917	12.9968	-0.000937	-0.028
41° 0'	693645.5901	30.845268	3716.3748	0.005114	1.774
	233685.4767	-0.981248	12.9406	-0.000937	-0.028
41° 1'	695496.3061	30.845357	3716.6817	0.005093	1.773
	233626.6017	-0.981580	12.8844	-0.000936	-0.028
41° 2'	697347.0275	30.845447	3716.9872	0.005072	1.772
	233567.7070	-0.981910	12.8283	-0.000936	-0.028
41° 3'	699197.7543	30.845536	3717.2915	0.005051	1.771
	233508.7924	-0.982241	12.7721	-0.000935	-0.028
41° 4'	701048.4865	30.845626	3717.5946	0.005030	1.770
	233449.8579	-0.982572	12.7160	-0.000935	-0.028
41° 5'	702899.2241	30.845715	3717.8964	0.005009	1.768
	233390.9035	-0.982903	12.6599	-0.000935	-0.029
41° 6'	704749.9670	30.845805	3718.1969	0.004988	1.767
	233331.9294	-0.983234	12.6038	-0.000934	-0.029
41° 7'	706600.7152	30.845894	3718.4962	0.004967	1.766
	233272.9353	-0.983564	12.5477	-0.000934	-0.029
41° 8'	708451.4689	30.845984	3718.7943	0.004946	1.765
	233213.9215	-0.983895	12.4917	-0.000934	-0.029
41° 9'	710302.2279	30.846073	3719.0910	0.004925	1.764
	233154.8878	-0.984225	12.4357	-0.000933	-0.029
41°10'	712152.9923	30.846163	3719.3865	0.004904	1.763
	233095.8343	-0.984555	12.3797	-0.000933	-0.029
41°11'	714003.7621	30.846252	3719.6808	0.004883	1.762
	233036.7610	-0.984886	12.3237	-0.000933	-0.029
41°12'	715854.5372	30.846342	3719.9738	0.004862	1.761
	232977.6678	-0.985216	12.2678	-0.000932	-0.029
41°13'	717705.3178	30.846432	3720.2655	0.004841	1.759
	232918.5549	-0.985546	12.2118	-0.000932	-0.029
41°14'	719556.1037	30.846521	3720.5560	0.004820	1.758
	232859.4221	-0.985876	12.1559	-0.000931	-0.029
41°15'	721406.8949	30.846611	3720.8452	0.004799	1.757
	232800.2696	-0.986206	12.1000	-0.000931	-0.029
41°16'	723257.6916	30.846700	3721.1332	0.004778	1.756
	232741.0972	-0.986536	12.0442	-0.000931	-0.029
41°17'	725108.4936	30.846790	3721.4199	0.004757	1.755
	232681.9051	-0.986865	11.9883	-0.000930	-0.029
41°18'	726959.3010	30.846880	3721.7053	0.004736	1.754
	232622.6931	-0.987195	11.9325	-0.000930	-0.029
41°19'	728810.1138	30.846969	3721.9895	0.004715	1.753
	232563.4614	-0.987525	11.8767	-0.000930	-0.029
41°20'	730660.9319	30.847059	3722.2724	0.004694	1.751
	232504.2099	-0.987854	11.8209	-0.000929	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°21'	732511.7554	30.847148	3722.5541	0.004673	1.750
	232444.9387	-0.988184	11.7651	-0.000929	-0.029
41°22'	734362.5843	30.847238	3722.8345	0.004652	1.749
	232385.6477	-0.988513	11.7094	-0.000929	-0.029
41°23'	736213.4186	30.847328	3723.1137	0.004631	1.748
	232326.3369	-0.988842	11.6537	-0.000928	-0.029
41°24'	738064.2583	30.847417	3723.3915	0.004610	1.747
	232267.0063	-0.989172	11.5980	-0.000928	-0.029
41°25'	739915.1033	30.847507	3723.6682	0.004590	1.746
	232207.6560	-0.989501	11.5423	-0.000927	-0.029
41°26'	741765.9538	30.847597	3723.9435	0.004569	1.745
	232148.2860	-0.989830	11.4867	-0.000927	-0.029
41°27'	743616.8096	30.847686	3724.2177	0.004548	1.743
	232088.8962	-0.990159	11.4311	-0.000927	-0.029
41°28'	745467.6708	30.847776	3724.4905	0.004527	1.742
	232029.4867	-0.990488	11.3755	-0.000926	-0.029
41°29'	747318.5373	30.847866	3724.7621	0.004506	1.741
	231970.0574	-0.990816	11.3199	-0.000926	-0.029
41°30'	749169.4093	30.847955	3725.0324	0.004485	1.740
	231910.6085	-0.991145	11.2643	-0.000926	-0.029
41°31'	751020.2866	30.848045	3725.3015	0.004464	1.739
	231851.1398	-0.991474	11.2088	-0.000925	-0.029
41°32'	752871.1693	30.848135	3725.5693	0.004443	1.738
	231791.6513	-0.991802	11.1533	-0.000925	-0.029
41°33'	754722.0574	30.848225	3725.8359	0.004422	1.736
	231732.1432	-0.992131	11.0978	-0.000924	-0.029
41°34'	756572.9509	30.848314	3726.1012	0.004401	1.735
	231672.6154	-0.992459	11.0423	-0.000924	-0.029
41°35'	758423.8497	30.848404	3726.3652	0.004379	1.734
	231613.0678	-0.992787	10.9869	-0.000924	-0.029
41°36'	760274.7540	30.848494	3726.6280	0.004358	1.733
	231553.5006	-0.993116	10.9315	-0.000923	-0.029
41°37'	762125.6636	30.848584	3726.8895	0.004337	1.732
	231493.9137	-0.993444	10.8761	-0.000923	-0.029
41°38'	763976.5786	30.848673	3727.1497	0.004316	1.731
	231434.3070	-0.993772	10.8207	-0.000923	-0.029
41°39'	765827.4990	30.848763	3727.4087	0.004295	1.730
	231374.6807	-0.994100	10.7653	-0.000922	-0.029
41°40'	767678.4248	30.848853	3727.6664	0.004274	1.728
	231315.0348	-0.994428	10.7100	-0.000922	-0.029
41°41'	769529.3560	30.848943	3727.9229	0.004253	1.727
	231255.3691	-0.994755	10.6547	-0.000921	-0.029
41°42'	771380.2925	30.849032	3728.1781	0.004232	1.726
	231195.6838	-0.995083	10.5994	-0.000921	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°43'	773231.2345	30.849122	3728.4320	0.004211	1.725
	231135.9788	-0.995411	10.5441	-0.000921	-0.029
41°44'	775082.1818	30.849212	3728.6847	0.004190	1.724
	231076.2541	-0.995738	10.4889	-0.000920	-0.029
41°45'	776933.1345	30.849302	3728.9361	0.004169	1.723
	231016.5098	-0.996066	10.4337	-0.000920	-0.029
41°46'	778784.0926	30.849392	3729.1863	0.004148	1.721
	230956.7459	-0.996393	10.3785	-0.000920	-0.029
41°47'	780635.0561	30.849481	3729.4352	0.004127	1.720
	230896.9623	-0.996720	10.3233	-0.000919	-0.029
41°48'	782486.0250	30.849571	3729.6828	0.004106	1.719
	230837.1591	-0.997048	10.2682	-0.000919	-0.029
41°49'	784336.9993	30.849661	3729.9292	0.004085	1.718
	230777.3362	-0.997375	10.2130	-0.000918	-0.029
41°50'	786187.9789	30.849751	3730.1743	0.004064	1.717
	230717.4937	-0.997702	10.1579	-0.000918	-0.029
41°51'	788038.9640	30.849841	3730.4182	0.004043	1.716
	230657.6316	-0.998029	10.1029	-0.000918	-0.029
41°52'	789889.9544	30.849931	3730.6608	0.004022	1.714
	230597.7499	-0.998356	10.0478	-0.000917	-0.029
41°53'	791740.9503	30.850020	3730.9021	0.004001	1.713
	230537.8485	-0.998683	9.9928	-0.000917	-0.029
41°54'	793591.9515	30.850110	3731.1422	0.003980	1.712
	230477.9276	-0.999009	9.9378	-0.000916	-0.029
41°55'	795442.9581	30.850200	3731.3810	0.003959	1.711
	230417.9870	-0.999336	9.8828	-0.000916	-0.029
41°56'	797293.9701	30.850290	3731.6185	0.003938	1.710
	230358.0268	-0.999663	9.8278	-0.000916	-0.029
41°57'	799144.9875	30.850380	3731.8548	0.003917	1.709
	230298.0471	-0.999989	9.7729	-0.000915	-0.029
41°58'	800996.0103	30.850470	3732.0898	0.003896	1.707
	230238.0477	-1.000315	9.7179	-0.000915	-0.029
41°59'	802847.0385	30.850560	3732.3236	0.003875	1.706
	230178.0288	-1.000642	9.6630	-0.000915	-0.029
42° 0'	804698.0720	30.850649	3732.5561	0.003854	1.705
	230117.9903	-1.000968	9.6082	-0.000914	-0.029
42° 1'	806549.1110	30.850739	3732.7873	0.003833	1.704
	230057.9322	-1.001294	9.5533	-0.000914	-0.029
42° 2'	808400.1554	30.850829	3733.0173	0.003812	1.703
	229997.8546	-1.001620	9.4985	-0.000913	-0.029
42° 3'	810251.2051	30.850919	3733.2460	0.003791	1.701
	229937.7574	-1.001946	9.4437	-0.000913	-0.029
42° 4'	812102.2603	30.851009	3733.4734	0.003770	1.700
	229877.6406	-1.002272	9.3889	-0.000913	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

NEVADA Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42° 5'	813953.3208	30.851099	3733.6996	0.003749	1.699
	229817.5042	-1.002598	9.3342	-0.000912	-0.029
42° 6'	815804.3868	30.851189	3733.9245	0.003728	1.698
	229757.3484	-1.002924	9.2794	-0.000912	-0.029
42° 7'	817655.4581	30.851279	3734.1481	0.003706	1.697
	229697.1729	-1.003249	9.2247	-0.000911	-0.029
42° 8'	819506.5348	30.851369	3734.3705	0.003685	1.696
	229636.9780	-1.003575	9.1701	-0.000911	-0.029
42° 9'	821357.6170	30.851459	3734.5917	0.003664	1.694
	229576.7635	-1.003900	9.1154	-0.000911	-0.029
42°10'	823208.7045	30.851549	3734.8115	0.003643	1.693
	229516.5294	-1.004226	9.0608	-0.000910	-0.029
42°11'	825059.7974	30.851639	3735.0301	0.003622	1.692
	229456.2759	-1.004551	9.0061	-0.000910	-0.029
42°12'	826910.8957	30.851729	3735.2474	0.003601	1.691
	229396.0028	-1.004876	8.9516	-0.000909	-0.029
42°13'	828761.9994	30.851819	3735.4635	0.003580	1.690
	229335.7102	-1.005202	8.8970	-0.000909	-0.029
42°14'	830613.1085	30.851909	3735.6783	0.003559	1.688
	229275.3981	-1.005527	8.8425	-0.000909	-0.029
42°15'	832464.2231	30.851998	3735.8919	0.003538	1.687
	229215.0665	-1.005852	8.7879	-0.000908	-0.029
42°16'	834315.3430	30.852088	3736.1041	0.003517	1.686
	229154.7154	-1.006177	8.7334	-0.000908	-0.029
42°17'	836166.4683	30.852178	3736.3152	0.003496	1.685
	229094.3448	-1.006501	8.6790	-0.000907	-0.029
42°18'	838017.5990	30.852268	3736.5249	0.003475	1.684
	229033.9547	-1.006826	8.6245	-0.000907	-0.029
42°19'	839868.7351	30.852358	3736.7334	0.003454	1.682
	228973.5452	-1.007151	8.5701	-0.000907	-0.029
42°20'	841719.8766	30.852448	3736.9406	0.003433	1.681
	228913.1161	-1.007475	8.5157	-0.000906	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°45'	0.0000	30.812517	1763.2234	0.018149	23.173
	39320.2866	0.131700	316.2541	0.004251	4.749
34°46'	1848.7510	30.812602	1764.3124	0.018156	23.194
	39328.1886	0.131809	316.5091	0.004256	4.756
34°47'	3697.5072	30.812686	1765.4017	0.018163	23.215
	39336.0972	0.131917	316.7645	0.004262	4.763
34°48'	5546.2683	30.812771	1766.4915	0.018170	23.236
	39344.0122	0.132026	317.0202	0.004267	4.770
34°49'	7395.0346	30.812856	1767.5817	0.018178	23.256
	39351.9338	0.132135	317.2762	0.004273	4.777
34°50'	9243.8059	30.812940	1768.6724	0.018185	23.277
	39359.8618	0.132244	317.5326	0.004278	4.784
34°51'	11092.5823	30.813025	1769.7635	0.018192	23.298
	39367.7965	0.132353	317.7892	0.004284	4.791
34°52'	12941.3638	30.813109	1770.8550	0.018199	23.319
	39375.7376	0.132462	318.0463	0.004289	4.798
34°53'	14790.1504	30.813194	1771.9470	0.018207	23.339
	39383.6853	0.132571	318.3036	0.004294	4.805
34°54'	16638.9420	30.813279	1773.0394	0.018214	23.360
	39391.6396	0.132680	318.5613	0.004300	4.812
34°55'	18487.7388	30.813363	1774.1322	0.018221	23.381
	39399.6004	0.132789	318.8193	0.004305	4.819
34°56'	20336.5406	30.813448	1775.2255	0.018229	23.402
	39407.5678	0.132899	319.0776	0.004311	4.826
34°57'	22185.3474	30.813533	1776.3192	0.018236	23.423
	39415.5417	0.133008	319.3363	0.004317	4.833
34°58'	24034.1594	30.813617	1777.4134	0.018243	23.444
	39423.5222	0.133118	319.5952	0.004322	4.840
34°59'	25882.9764	30.813702	1778.5080	0.018250	23.465
	39431.5093	0.133228	319.8546	0.004328	4.847
35° 0'	27731.7986	30.813787	1779.6030	0.018258	23.486
	39439.5029	0.133338	320.1142	0.004333	4.855
35° 1'	29580.6258	30.813872	1780.6985	0.018265	23.507
	39447.5032	0.133447	320.3742	0.004339	4.862
35° 2'	31429.4581	30.813957	1781.7944	0.018272	23.528
	39455.5100	0.133557	320.6345	0.004344	4.869
35° 3'	33278.2955	30.814041	1782.8907	0.018280	23.549
	39463.5235	0.133667	320.8952	0.004350	4.876
35° 4'	35127.1380	30.814126	1783.9875	0.018287	23.570
	39471.5435	0.133778	321.1562	0.004355	4.883
35° 5'	36975.9855	30.814211	1785.0847	0.018295	23.591
	39479.5702	0.133888	321.4175	0.004361	4.890
35° 6'	38824.8382	30.814296	1786.1824	0.018302	23.612
	39487.6035	0.133998	321.6791	0.004367	4.898

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35° 7'	40673.6960	30.814381	1787.2805	0.018309	23.633
	39495.6433	0.134109	321.9411	0.004372	4.905
35° 8'	42522.5588	30.814466	1788.3791	0.018317	23.654
	39503.6899	0.134219	322.2035	0.004378	4.912
35° 9'	44371.4268	30.814551	1789.4781	0.018324	23.675
	39511.7430	0.134330	322.4661	0.004383	4.919
35°10'	46220.2998	30.814636	1790.5775	0.018331	23.696
	39519.8028	0.134440	322.7291	0.004389	4.927
35°11'	48069.1779	30.814721	1791.6774	0.018339	23.718
	39527.8692	0.134551	322.9925	0.004395	4.934
35°12'	49918.0612	30.814806	1792.7777	0.018346	23.739
	39535.9423	0.134662	323.2562	0.004400	4.941
35°13'	51766.9495	30.814891	1793.8785	0.018354	23.760
	39544.0220	0.134773	323.5202	0.004406	4.949
35°14'	53615.8429	30.814976	1794.9797	0.018361	23.781
	39552.1084	0.134884	323.7845	0.004412	4.956
35°15'	55464.7415	30.815061	1796.0814	0.018369	23.803
	39560.2014	0.134995	324.0492	0.004417	4.963
35°16'	57313.6451	30.815146	1797.1835	0.018376	23.824
	39568.3011	0.135106	324.3143	0.004423	4.971
35°17'	59162.5538	30.815231	1798.2861	0.018383	23.845
	39576.4075	0.135218	324.5796	0.004429	4.978
35°18'	61011.4677	30.815316	1799.3891	0.018391	23.867
	39584.5206	0.135329	324.8454	0.004434	4.985
35°19'	62860.3866	30.815401	1800.4926	0.018398	23.888
	39592.6403	0.135441	325.1114	0.004440	4.993
35°20'	64709.3107	30.815486	1801.5965	0.018406	23.909
	39600.7668	0.135552	325.3778	0.004446	5.000
35°21'	66558.2399	30.815571	1802.7008	0.018413	23.931
	39608.8999	0.135664	325.6446	0.004451	5.008
35°22'	68407.1741	30.815656	1803.8056	0.018421	23.952
	39617.0397	0.135776	325.9116	0.004457	5.015
35°23'	70256.1135	30.815742	1804.9109	0.018428	23.974
	39625.1863	0.135888	326.1791	0.004463	5.023
35°24'	72105.0580	30.815827	1806.0166	0.018436	23.995
	39633.3395	0.136000	326.4468	0.004469	5.030
35°25'	73954.0076	30.815912	1807.1227	0.018443	24.016
	39641.4995	0.136112	326.7150	0.004474	5.038
35°26'	75802.9623	30.815997	1808.2293	0.018451	24.038
	39649.6662	0.136224	326.9834	0.004480	5.045
35°27'	77651.9222	30.816082	1809.3364	0.018458	24.060
	39657.8396	0.136336	327.2522	0.004486	5.053
35°28'	79500.8871	30.816168	1810.4439	0.018466	24.081
	39666.0198	0.136448	327.5214	0.004492	5.060

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0008

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°29'	81349.8572	30.816253	1811.5518	0.018474	24.103
	39674.2067	0.136561	327.7909	0.004498	5.068
35°30'	83198.8323	30.816338	1812.6602	0.018481	24.124
	39682.4004	0.136673	328.0608	0.004503	5.075
35°31'	85047.8126	30.816424	1813.7691	0.018489	24.146
	39690.6008	0.136786	328.3309	0.004509	5.083
35°32'	86896.7981	30.816509	1814.8784	0.018496	24.167
	39698.8079	0.136899	328.6015	0.004515	5.090
35°33'	88745.7886	30.816594	1815.9882	0.018504	24.189
	39707.0219	0.137012	328.8724	0.004521	5.098
35°34'	90594.7842	30.816680	1817.0984	0.018511	24.211
	39715.2426	0.137124	329.1436	0.004527	5.106
35°35'	92443.7850	30.816765	1818.2091	0.018519	24.233
	39723.4700	0.137237	329.4152	0.004532	5.113
35°36'	94292.7909	30.816850	1819.3202	0.018527	24.254
	39731.7043	0.137351	329.6872	0.004538	5.121
35°37'	96141.8020	30.816936	1820.4318	0.018534	24.276
	39739.9453	0.137464	329.9595	0.004544	5.129
35°38'	97990.8181	30.817021	1821.5439	0.018542	24.298
	39748.1931	0.137577	330.2321	0.004550	5.136
35°39'	99839.8394	30.817107	1822.6564	0.018549	24.320
	39756.4478	0.137690	330.5051	0.004556	5.144
35°40'	101688.8658	30.817192	1823.7694	0.018557	24.341
	39764.7092	0.137804	330.7785	0.004562	5.152
35°41'	103537.8973	30.817278	1824.8828	0.018565	24.363
	39772.9774	0.137917	331.0522	0.004568	5.159
35°42'	105386.9340	30.817363	1825.9967	0.018572	24.385
	39781.2525	0.138031	331.3262	0.004574	5.167
35°43'	107235.9758	30.817449	1827.1110	0.018580	24.407
	39789.5344	0.138145	331.6006	0.004579	5.175
35°44'	109085.0227	30.817534	1828.2258	0.018588	24.429
	39797.8230	0.138259	331.8754	0.004585	5.182
35°45'	110934.0748	30.817620	1829.3411	0.018595	24.451
	39806.1186	0.138373	332.1505	0.004591	5.190
35°46'	112783.1320	30.817705	1830.4568	0.018603	24.473
	39814.4209	0.138487	332.4260	0.004597	5.198
35°47'	114632.1943	30.817791	1831.5730	0.018611	24.495
	39822.7301	0.138601	332.7018	0.004603	5.206
35°48'	116481.2618	30.817877	1832.6896	0.018618	24.517
	39831.0462	0.138715	332.9780	0.004609	5.214
35°49'	118330.3344	30.817962	1833.8067	0.018626	24.539
	39839.3691	0.138829	333.2546	0.004615	5.221
35°50'	120179.4121	30.818048	1834.9243	0.018634	24.561
	39847.6989	0.138944	333.5315	0.004621	5.229

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°51'	122028.4950	30.818134	1836.0423	0.018642	24.583
	39856.0355	0.139058	333.8087	0.004627	5.237
35°52'	123877.5830	30.818219	1837.1608	0.018649	24.605
	39864.3790	0.139173	334.0864	0.004633	5.245
35°53'	125726.6762	30.818305	1838.2798	0.018657	24.627
	39872.7294	0.139288	334.3643	0.004639	5.253
35°54'	127575.7745	30.818391	1839.3992	0.018665	24.649
	39881.0866	0.139403	334.6427	0.004645	5.261
35°55'	129424.8779	30.818476	1840.5191	0.018673	24.671
	39889.4508	0.139517	334.9214	0.004651	5.269
35°56'	131273.9865	30.818562	1841.6394	0.018680	24.693
	39897.8218	0.139632	335.2005	0.004657	5.277
35°57'	133123.1002	30.818648	1842.7602	0.018688	24.715
	39906.1998	0.139748	335.4799	0.004663	5.285
35°58'	134972.2191	30.818734	1843.8815	0.018696	24.738
	39914.5846	0.139863	335.7597	0.004669	5.293
35°59'	136821.3431	30.818820	1845.0033	0.018704	24.760
	39922.9764	0.139978	336.0398	0.004675	5.301
36° 0'	138670.4723	30.818905	1846.1255	0.018711	24.782
	39931.3751	0.140093	336.3203	0.004681	5.309
36° 1'	140519.6066	30.818991	1847.2482	0.018719	24.804
	39939.7807	0.140209	336.6012	0.004687	5.317
36° 2'	142368.7461	30.819077	1848.3713	0.018727	24.827
	39948.1932	0.140324	336.8825	0.004693	5.325
36° 3'	144217.8907	30.819163	1849.4949	0.018735	24.849
	39956.6127	0.140440	337.1641	0.004700	5.333
36° 4'	146067.0405	30.819249	1850.6190	0.018743	24.871
	39965.0391	0.140556	337.4460	0.004706	5.341
36° 5'	147916.1954	30.819335	1851.7436	0.018751	24.894
	39973.4724	0.140672	337.7284	0.004712	5.349
36° 6'	149765.3555	30.819421	1852.8686	0.018758	24.916
	39981.9127	0.140788	338.0111	0.004718	5.357
36° 7'	151614.5207	30.819507	1853.9941	0.018766	24.939
	39990.3600	0.140904	338.2941	0.004724	5.365
36° 8'	153463.6911	30.819592	1855.1201	0.018774	24.961
	39998.8142	0.141020	338.5776	0.004730	5.373
36° 9'	155312.8667	30.819678	1856.2465	0.018782	24.983
	40007.2754	0.141136	338.8614	0.004736	5.381
36°10'	157162.0474	30.819764	1857.3735	0.018790	25.006
	40015.7436	0.141253	339.1456	0.004742	5.389
36°11'	159011.2332	30.819850	1858.5008	0.018798	25.028
	40024.2188	0.141369	339.4301	0.004749	5.397
36°12'	160860.4243	30.819936	1859.6287	0.018806	25.051
	40032.7009	0.141486	339.7150	0.004755	5.406

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°13'	162709.6204	30.820022	1860.7570	0.018813	25.073
	40041.1901	0.141602	340.0003	0.004761	5.414
36°14'	164558.8218	30.820108	1861.8858	0.018821	25.096
	40049.6862	0.141719	340.2860	0.004767	5.422
36°15'	166408.0283	30.820195	1863.0151	0.018829	25.119
	40058.1893	0.141836	340.5720	0.004773	5.430
36°16'	168257.2400	30.820281	1864.1449	0.018837	25.141
	40066.6995	0.141953	340.8584	0.004780	5.438
36°17'	170106.4568	30.820367	1865.2751	0.018845	25.164
	40075.2167	0.142070	341.1452	0.004786	5.447
36°18'	171955.6788	30.820453	1866.4058	0.018853	25.187
	40083.7409	0.142187	341.4323	0.004792	5.455
36°19'	173804.9060	30.820539	1867.5370	0.018861	25.209
	40092.2721	0.142304	341.7198	0.004798	5.463
36°20'	175654.1383	30.820625	1868.6687	0.018869	25.232
	40100.8103	0.142422	342.0077	0.004805	5.471
36°21'	177503.3758	30.820711	1869.8008	0.018877	25.255
	40109.3556	0.142539	342.2960	0.004811	5.480
36°22'	179352.6185	30.820797	1870.9334	0.018885	25.277
	40117.9080	0.142657	342.5847	0.004817	5.488
36°23'	181201.8663	30.820884	1872.0665	0.018893	25.300
	40126.4674	0.142774	342.8737	0.004823	5.496
36°24'	183051.1193	30.820970	1873.2001	0.018901	25.323
	40135.0339	0.142892	343.1631	0.004830	5.505
36°25'	184900.3775	30.821056	1874.3342	0.018909	25.346
	40143.6074	0.143010	343.4529	0.004836	5.513
36°26'	186749.6409	30.821142	1875.4687	0.018917	25.369
	40152.1880	0.143128	343.7430	0.004842	5.522
36°27'	188598.9094	30.821228	1876.6037	0.018925	25.392
	40160.7757	0.143246	344.0335	0.004849	5.530
36°28'	190448.1831	30.821315	1877.7392	0.018933	25.414
	40169.3704	0.143364	344.3244	0.004855	5.538
36°29'	192297.4620	30.821401	1878.8752	0.018941	25.437
	40177.9723	0.143482	344.6157	0.004861	5.547
36°30'	194146.7461	30.821487	1880.0117	0.018949	25.460
	40186.5812	0.143601	344.9074	0.004868	5.555
36°31'	195996.0353	30.821574	1881.1486	0.018957	25.483
	40195.1972	0.143719	345.1995	0.004874	5.564
36°32'	197845.3297	30.821660	1882.2860	0.018965	25.506
	40203.8204	0.143838	345.4919	0.004880	5.572
36°33'	199694.6293	30.821746	1883.4240	0.018973	25.529
	40212.4507	0.143956	345.7847	0.004887	5.581
36°34'	201543.9341	30.821833	1884.5623	0.018981	25.552
	40221.0880	0.144075	346.0779	0.004893	5.589

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°35'	203393.2441	30.821919	1885.7012	0.018989	25.575
	40229.7325	0.144194	346.3715	0.004899	5.598
36°36'	205242.5592	30.822005	1886.8406	0.018998	25.598
	40238.3842	0.144313	346.6655	0.004906	5.606
36°37'	207091.8796	30.822092	1887.9804	0.019006	25.622
	40247.0430	0.144432	346.9598	0.004912	5.615
36°38'	208941.2051	30.822178	1889.1208	0.019014	25.645
	40255.7089	0.144551	347.2545	0.004919	5.623
36°39'	210790.5358	30.822265	1890.2616	0.019022	25.668
	40264.3820	0.144670	347.5497	0.004925	5.632
36°40'	212639.8717	30.822351	1891.4029	0.019030	25.691
	40273.0622	0.144790	347.8452	0.004932	5.641
36°41'	214489.2127	30.822438	1892.5447	0.019038	25.714
	40281.7496	0.144909	348.1411	0.004938	5.649
36°42'	216338.5590	30.822524	1893.6870	0.019046	25.737
	40290.4441	0.145029	348.4373	0.004944	5.658
36°43'	218187.9104	30.822611	1894.8298	0.019054	25.761
	40299.1459	0.145149	348.7340	0.004951	5.667
36°44'	220037.2671	30.822697	1895.9730	0.019063	25.784
	40307.8548	0.145268	349.0311	0.004957	5.675
36°45'	221886.6289	30.822784	1897.1168	0.019071	25.807
	40316.5709	0.145388	349.3285	0.004964	5.684
36°46'	223735.9959	30.822870	1898.2610	0.019079	25.831
	40325.2942	0.145508	349.6263	0.004970	5.693
36°47'	225585.3681	30.822957	1899.4058	0.019087	25.854
	40334.0247	0.145628	349.9246	0.004977	5.701
36°48'	227434.7456	30.823043	1900.5510	0.019095	25.877
	40342.7624	0.145749	350.2232	0.004983	5.710
36°49'	229284.1282	30.823130	1901.6967	0.019104	25.901
	40351.5073	0.145869	350.5222	0.004990	5.719
36°50'	231133.5160	30.823217	1902.8429	0.019112	25.924
	40360.2594	0.145989	350.8216	0.004997	5.728
36°51'	232982.9090	30.823303	1903.9896	0.019120	25.948
	40369.0188	0.146110	351.1214	0.005003	5.736
36°52'	234832.3071	30.823390	1905.1368	0.019128	25.971
	40377.7854	0.146230	351.4216	0.005010	5.745
36°53'	236681.7105	30.823477	1906.2845	0.019136	25.995
	40386.5592	0.146351	351.7221	0.005016	5.754
36°54'	238531.1191	30.823563	1907.4327	0.019145	26.018
	40395.3402	0.146472	352.0231	0.005023	5.763
36°55'	240380.5329	30.823650	1908.5814	0.019153	26.042
	40404.1285	0.146593	352.3245	0.005029	5.772
36°56'	242229.9519	30.823737	1909.7306	0.019161	26.065
	40412.9241	0.146714	352.6262	0.005036	5.781

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°57'	244079.3761	30.823823	1910.8802	0.019169	26.089
	40421.7269	0.146835	352.9284	0.005043	5.789
36°58'	245928.8055	30.823910	1912.0304	0.019178	26.112
	40430.5370	0.146956	353.2310	0.005049	5.798
36°59'	247778.2401	30.823997	1913.1811	0.019186	26.136
	40439.3544	0.147077	353.5339	0.005056	5.807
37° 0'	249627.6799	30.824084	1914.3322	0.019194	26.160
	40448.1791	0.147199	353.8373	0.005063	5.816
37° 1'	251477.1249	30.824170	1915.4839	0.019203	26.183
	40457.0110	0.147320	354.1410	0.005069	5.825
37° 2'	253326.5751	30.824257	1916.6360	0.019211	26.207
	40465.8502	0.147442	354.4452	0.005076	5.834
37° 3'	255176.0306	30.824344	1917.7887	0.019219	26.231
	40474.6967	0.147564	354.7497	0.005083	5.843
37° 4'	257025.4912	30.824431	1918.9419	0.019228	26.255
	40483.5506	0.147686	355.0547	0.005089	5.852
37° 5'	258874.9570	30.824518	1920.0955	0.019236	26.278
	40492.4117	0.147808	355.3600	0.005096	5.861
37° 6'	260724.4281	30.824604	1921.2497	0.019244	26.302
	40501.2802	0.147930	355.6658	0.005103	5.870
37° 7'	262573.9044	30.824691	1922.4043	0.019253	26.326
	40510.1560	0.148052	355.9719	0.005109	5.879
37° 8'	264423.3858	30.824778	1923.5595	0.019261	26.350
	40519.0391	0.148174	356.2785	0.005116	5.888
37° 9'	266272.8725	30.824865	1924.7152	0.019269	26.374
	40527.9295	0.148297	356.5855	0.005123	5.897
37°10'	268122.3644	30.824952	1925.8713	0.019278	26.398
	40536.8273	0.148419	356.8928	0.005130	5.907
37°11'	269971.8615	30.825039	1927.0280	0.019286	26.422
	40545.7325	0.148542	357.2006	0.005136	5.916
37°12'	271821.3639	30.825126	1928.1852	0.019295	26.446
	40554.6450	0.148664	357.5088	0.005143	5.925
37°13'	273670.8714	30.825213	1929.3428	0.019303	26.470
	40563.5649	0.148787	357.8174	0.005150	5.934
37°14'	275520.3842	30.825300	1930.5010	0.019311	26.494
	40572.4921	0.148910	358.1264	0.005157	5.943
37°15'	277369.9021	30.825387	1931.6597	0.019320	26.518
	40581.4267	0.149033	358.4357	0.005163	5.952
37°16'	279219.4253	30.825474	1932.8189	0.019328	26.542
	40590.3687	0.149156	358.7456	0.005170	5.962
37°17'	281068.9538	30.825561	1933.9786	0.019337	26.566
	40599.3181	0.149280	359.0558	0.005177	5.971
37°18'	282918.4874	30.825648	1935.1388	0.019345	26.590
	40608.2749	0.149403	359.3664	0.005184	5.980

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°19'	284768.0263	30.825735	1936.2995	0.019354	26.614
	40617.2390	0.149526	359.6774	0.005191	5.989
37°20'	286617.5703	30.825822	1937.4608	0.019362	26.638
	40626.2106	0.149650	359.9889	0.005198	5.999
37°21'	288467.1197	30.825909	1938.6225	0.019371	26.663
	40635.1896	0.149774	360.3007	0.005204	6.008
37°22'	290316.6742	30.825996	1939.7847	0.019379	26.687
	40644.1761	0.149897	360.6130	0.005211	6.017
37°23'	292166.2339	30.826083	1940.9475	0.019388	26.711
	40653.1699	0.150021	360.9257	0.005218	6.027
37°24'	294015.7989	30.826170	1942.1107	0.019396	26.735
	40662.1712	0.150145	361.2388	0.005225	6.036
37°25'	295865.3691	30.826257	1943.2745	0.019405	26.760
	40671.1799	0.150269	361.5523	0.005232	6.045
37°26'	297714.9446	30.826344	1944.4388	0.019413	26.784
	40680.1961	0.150394	361.8662	0.005239	6.055
37°27'	299564.5252	30.826432	1945.6036	0.019422	26.808
	40689.2197	0.150518	362.1805	0.005246	6.064
37°28'	301414.1111	30.826519	1946.7689	0.019430	26.833
	40698.2508	0.150642	362.4953	0.005253	6.074
37°29'	303263.7022	30.826606	1947.9347	0.019439	26.857
	40707.2893	0.150767	362.8105	0.005260	6.083
37°30'	305113.2986	30.826693	1949.1011	0.019447	26.881
	40716.3353	0.150892	363.1261	0.005267	6.093
37°31'	306962.9002	30.826780	1950.2679	0.019456	26.906
	40725.3888	0.151016	363.4421	0.005274	6.102
37°32'	308812.5070	30.826867	1951.4353	0.019465	26.930
	40734.4498	0.151141	363.7585	0.005281	6.112
37°33'	310662.1190	30.826955	1952.6032	0.019473	26.955
	40743.5183	0.151266	364.0753	0.005288	6.121
37°34'	312511.7363	30.827042	1953.7715	0.019482	26.979
	40752.5943	0.151391	364.3926	0.005295	6.131
37°35'	314361.3588	30.827129	1954.9405	0.019490	27.004
	40761.6777	0.151517	364.7103	0.005302	6.140
37°36'	316210.9866	30.827216	1956.1099	0.019499	27.029
	40770.7687	0.151642	365.0284	0.005309	6.150
37°37'	318060.6196	30.827304	1957.2798	0.019508	27.053
	40779.8673	0.151767	365.3469	0.005316	6.159
37°38'	319910.2578	30.827391	1958.4503	0.019516	27.078
	40788.9733	0.151893	365.6659	0.005323	6.169
37°39'	321759.9013	30.827478	1959.6213	0.019525	27.102
	40798.0869	0.152018	365.9852	0.005330	6.179
37°40'	323609.5500	30.827566	1960.7928	0.019534	27.127
	40807.2080	0.152144	366.3050	0.005337	6.188

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°41'	325459.2039	30.827653	1961.9648	0.019542	27.152
	40816.3366	0.152270	366.6252	0.005344	6.198
37°42'	327308.8631	30.827740	1963.1373	0.019551	27.177
	40825.4728	0.152396	366.9459	0.005351	6.208
37°43'	329158.5275	30.827828	1964.3104	0.019560	27.201
	40834.6166	0.152522	367.2670	0.005358	6.217
37°44'	331008.1972	30.827915	1965.4840	0.019568	27.226
	40843.7679	0.152648	367.5884	0.005365	6.227
37°45'	332857.8721	30.828003	1966.6581	0.019577	27.251
	40852.9268	0.152775	367.9104	0.005373	6.237
37°46'	334707.5523	30.828090	1967.8327	0.019586	27.276
	40862.0933	0.152901	368.2327	0.005380	6.247
37°47'	336557.2377	30.828177	1969.0078	0.019595	27.301
	40871.2673	0.153028	368.5555	0.005387	6.256
37°48'	338406.9283	30.828265	1970.1835	0.019603	27.326
	40880.4490	0.153154	368.8787	0.005394	6.266
37°49'	340256.6242	30.828352	1971.3597	0.019612	27.351
	40889.6382	0.153281	369.2023	0.005401	6.276
37°50'	342106.3253	30.828440	1972.5364	0.019621	27.375
	40898.8351	0.153408	369.5264	0.005408	6.286
37°51'	343956.0317	30.828527	1973.7137	0.019630	27.400
	40908.0396	0.153535	369.8509	0.005416	6.296
37°52'	345805.7434	30.828615	1974.8915	0.019638	27.425
	40917.2517	0.153662	370.1758	0.005423	6.305
37°53'	347655.4603	30.828702	1976.0697	0.019647	27.451
	40926.4714	0.153789	370.5012	0.005430	6.315
37°54'	349505.1824	30.828790	1977.2486	0.019656	27.476
	40935.6987	0.153916	370.8270	0.005437	6.325
37°55'	351354.9098	30.828877	1978.4279	0.019665	27.501
	40944.9337	0.154044	371.1532	0.005444	6.335
37°56'	353204.6424	30.828965	1979.6078	0.019673	27.526
	40954.1763	0.154171	371.4799	0.005452	6.345
37°57'	355054.3803	30.829052	1980.7882	0.019682	27.551
	40963.4266	0.154299	371.8070	0.005459	6.355
37°58'	356904.1235	30.829140	1981.9691	0.019691	27.576
	40972.6846	0.154427	372.1345	0.005466	6.365
37°59'	358753.8719	30.829228	1983.1506	0.019700	27.601
	40981.9502	0.154555	372.4625	0.005473	6.375
38° 0'	360603.6255	30.829315	1984.3326	0.019709	27.626
	40991.2234	0.154683	372.7909	0.005481	6.385
38° 1'	362453.3844	30.829403	1985.5151	0.019718	27.652
	41000.5044	0.154811	373.1198	0.005488	6.395
38° 2'	364303.1486	30.829490	1986.6982	0.019727	27.677
	41009.7931	0.154939	373.4490	0.005495	6.405

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38° 3'	366152.9180	30.829578	1987.8818	0.019735	27.702
	41019.0894	0.155067	373.7788	0.005503	6.415
38° 4'	368002.6927	30.829666	1989.0659	0.019744	27.728
	41028.3934	0.155196	374.1089	0.005510	6.425
38° 5'	369852.4726	30.829753	1990.2506	0.019753	27.753
	41037.7052	0.155324	374.4395	0.005517	6.436
38° 6'	371702.2578	30.829841	1991.4358	0.019762	27.778
	41047.0246	0.155453	374.7706	0.005525	6.446
38° 7'	373552.0483	30.829929	1992.6215	0.019771	27.804
	41056.3518	0.155582	375.1021	0.005532	6.456
38° 8'	375401.8440	30.830016	1993.8077	0.019780	27.829
	41065.6867	0.155711	375.4340	0.005540	6.466
38° 9'	377251.6450	30.830104	1994.9945	0.019789	27.855
	41075.0294	0.155840	375.7664	0.005547	6.476
38°10'	379101.4513	30.830192	1996.1819	0.019798	27.880
	41084.3798	0.155969	376.0992	0.005554	6.487
38°11'	380951.2628	30.830280	1997.3697	0.019807	27.906
	41093.7379	0.156098	376.4325	0.005562	6.497
38°12'	382801.0796	30.830367	1998.5581	0.019816	27.931
	41103.1038	0.156227	376.7662	0.005569	6.507
38°13'	384650.9016	30.830455	1999.7471	0.019825	27.957
	41112.4774	0.156357	377.1003	0.005577	6.517
38°14'	386500.7289	30.830543	2000.9365	0.019834	27.982
	41121.8588	0.156487	377.4349	0.005584	6.528
38°15'	388350.5615	30.830631	2002.1266	0.019843	28.008
	41131.2480	0.156616	377.7700	0.005592	6.538
38°16'	390200.3993	30.830719	2003.3171	0.019852	28.034
	41140.6450	0.156746	378.1055	0.005599	6.548
38°17'	392050.2424	30.830806	2004.5082	0.019861	28.059
	41150.0498	0.156876	378.4414	0.005607	6.559
38°18'	393900.0908	30.830894	2005.6998	0.019870	28.085
	41159.4623	0.157006	378.7778	0.005614	6.569
38°19'	395749.9445	30.830982	2006.8920	0.019879	28.111
	41168.8827	0.157136	379.1147	0.005622	6.579
38°20'	397599.8034	30.831070	2008.0847	0.019888	28.137
	41178.3109	0.157267	379.4520	0.005629	6.590
38°21'	399449.6676	30.831158	2009.2780	0.019897	28.163
	41187.7469	0.157397	379.7897	0.005637	6.600
38°22'	401299.5371	30.831246	2010.4718	0.019906	28.188
	41197.1907	0.157528	380.1279	0.005644	6.611
38°23'	403149.4118	30.831334	2011.6662	0.019915	28.214
	41206.6424	0.157658	380.4666	0.005652	6.621
38°24'	404999.2918	30.831421	2012.8610	0.019924	28.240
	41216.1019	0.157789	380.8057	0.005659	6.632

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°25'	406849.1771	30.831509	2014.0565	0.019933	28.266
	41225.5692	0.157920	381.1453	0.005667	6.642
38°26'	408699.0677	30.831597	2015.2525	0.019942	28.292
	41235.0444	0.158051	381.4853	0.005675	6.653
38°27'	410548.9635	30.831685	2016.4490	0.019951	28.318
	41244.5274	0.158182	381.8258	0.005682	6.663
38°28'	412398.8646	30.831773	2017.6461	0.019960	28.344
	41254.0183	0.158313	382.1667	0.005690	6.674
38°29'	414248.7710	30.831861	2018.8437	0.019969	28.370
	41263.5171	0.158445	382.5081	0.005698	6.685
38°30'	416098.6827	30.831949	2020.0418	0.019979	28.396
	41273.0238	0.158576	382.8499	0.005705	6.695
38°31'	417948.5996	30.832037	2021.2406	0.019988	28.422
	41282.5384	0.158708	383.1923	0.005713	6.706
38°32'	419798.5218	30.832125	2022.4398	0.019997	28.448
	41292.0608	0.158839	383.5350	0.005721	6.717
38°33'	421648.4493	30.832213	2023.6396	0.020006	28.474
	41301.5912	0.158971	383.8783	0.005728	6.727
38°34'	423498.3821	30.832301	2024.8400	0.020015	28.501
	41311.1295	0.159103	384.2220	0.005736	6.738
38°35'	425348.3202	30.832389	2026.0409	0.020024	28.527
	41320.6756	0.159235	384.5661	0.005744	6.749
38°36'	427198.2635	30.832477	2027.2424	0.020034	28.553
	41330.2297	0.159367	384.9107	0.005751	6.759
38°37'	429048.2122	30.832565	2028.4444	0.020043	28.579
	41339.7918	0.159500	385.2558	0.005759	6.770
38°38'	430898.1661	30.832653	2029.6469	0.020052	28.605
	41349.3618	0.159632	385.6014	0.005767	6.781
38°39'	432748.1253	30.832741	2030.8501	0.020061	28.632
	41358.9397	0.159765	385.9474	0.005775	6.792
38°40'	434598.0898	30.832830	2032.0537	0.020070	28.658
	41368.5256	0.159897	386.2938	0.005782	6.803
38°41'	436448.0596	30.832918	2033.2580	0.020080	28.685
	41378.1194	0.160030	386.6408	0.005790	6.814
38°42'	438298.0346	30.833006	2034.4627	0.020089	28.711
	41387.7212	0.160163	386.9882	0.005798	6.824
38°43'	440148.0150	30.833094	2035.6681	0.020098	28.737
	41397.3310	0.160296	387.3361	0.005806	6.835
38°44'	441998.0006	30.833182	2036.8740	0.020107	28.764
	41406.9487	0.160429	387.6844	0.005814	6.846
38°45'	443847.9915	30.833270	2038.0804	0.020117	28.790
	41416.5745	0.160562	388.0332	0.005821	6.857
38°46'	445697.9878	30.833358	2039.2874	0.020126	28.817
	41426.2082	0.160696	388.3825	0.005829	6.868

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°47'	447547.9893	30.833447	2040.4950	0.020135	28.843
	41435.8500	0.160829	388.7323	0.005837	6.879
38°48'	449397.9961	30.833535	2041.7031	0.020145	28.870
	41445.4997	0.160963	389.0825	0.005845	6.890
38°49'	451248.0081	30.833623	2042.9118	0.020154	28.897
	41455.1575	0.161097	389.4332	0.005853	6.901
38°50'	453098.0255	30.833711	2044.1210	0.020163	28.923
	41464.8233	0.161230	389.7844	0.005861	6.912
38°51'	454948.0482	30.833799	2045.3308	0.020173	28.950
	41474.4971	0.161364	390.1361	0.005869	6.923
38°52'	456798.0762	30.833888	2046.5412	0.020182	28.977
	41484.1790	0.161499	390.4882	0.005877	6.934
38°53'	458648.1094	30.833976	2047.7521	0.020191	29.003
	41493.8689	0.161633	390.8408	0.005885	6.946
38°54'	460498.1480	30.834064	2048.9636	0.020201	29.030
	41503.5669	0.161767	391.1939	0.005893	6.957
38°55'	462348.1918	30.834152	2050.1756	0.020210	29.057
	41513.2729	0.161902	391.5474	0.005901	6.968
38°56'	464198.2410	30.834241	2051.3882	0.020219	29.084
	41522.9870	0.162036	391.9015	0.005909	6.979
38°57'	466048.2954	30.834329	2052.6014	0.020229	29.110
	41532.7092	0.162171	392.2560	0.005917	6.990
38°58'	467898.3552	30.834417	2053.8151	0.020238	29.137
	41542.4394	0.162306	392.6110	0.005925	7.001
38°59'	469748.4202	30.834506	2055.0294	0.020248	29.164
	41552.1778	0.162441	392.9664	0.005933	7.013
39° 0'	471598.4906	30.834594	2056.2443	0.020257	29.191
	41561.9242	0.162576	393.3224	0.005941	7.024
39° 1'	473448.5662	30.834682	2057.4597	0.020267	29.218
	41571.6788	0.162711	393.6788	0.005949	7.035
39° 2'	475298.6472	30.834771	2058.6757	0.020276	29.245
	41581.4415	0.162846	394.0357	0.005957	7.047
39° 3'	477148.7334	30.834859	2059.8923	0.020286	29.272
	41591.2122	0.162982	394.3931	0.005965	7.058
39° 4'	478998.8249	30.834947	2061.1094	0.020295	29.299
	41600.9911	0.163117	394.7510	0.005973	7.069
39° 5'	480848.9218	30.835036	2062.3271	0.020304	29.326
	41610.7782	0.163253	395.1094	0.005981	7.081
39° 6'	482699.0239	30.835124	2063.5454	0.020314	29.353
	41620.5734	0.163389	395.4682	0.005989	7.092
39° 7'	484549.1314	30.835213	2064.7642	0.020323	29.381
	41630.3767	0.163525	395.8276	0.005997	7.104
39° 8'	486399.2442	30.835301	2065.9836	0.020333	29.408
	41640.1882	0.163661	396.1874	0.006005	7.115

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39° 9'	488249.3622	30.835390	2067.2036	0.020342	29.435
	41650.0079	0.163797	396.5477	0.006013	7.126
39°10'	490099.4856	30.835478	2068.4241	0.020352	29.462
	41659.8357	0.163934	396.9085	0.006022	7.138
39°11'	491949.6143	30.835566	2069.6453	0.020362	29.489
	41669.6717	0.164070	397.2698	0.006030	7.149
39°12'	493799.7483	30.835655	2070.8670	0.020371	29.517
	41679.5159	0.164207	397.6316	0.006038	7.161
39°13'	495649.8876	30.835743	2072.0892	0.020381	29.544
	41689.3683	0.164343	397.9939	0.006046	7.173
39°14'	497500.0322	30.835832	2073.3121	0.020390	29.571
	41699.2289	0.164480	398.3567	0.006054	7.184
39°15'	499350.1821	30.835920	2074.5355	0.020400	29.599
	41709.0978	0.164617	398.7199	0.006063	7.196
39°16'	501200.3373	30.836009	2075.7595	0.020409	29.626
	41718.9748	0.164754	399.0837	0.006071	7.207
39°17'	503050.4978	30.836097	2076.9840	0.020419	29.654
	41728.8600	0.164891	399.4479	0.006079	7.219
39°18'	504900.6637	30.836186	2078.2092	0.020429	29.681
	41738.7535	0.165029	399.8127	0.006087	7.231
39°19'	506750.8348	30.836274	2079.4349	0.020438	29.709
	41748.6552	0.165166	400.1779	0.006096	7.242
39°20'	508601.0113	30.836363	2080.6612	0.020448	29.736
	41758.5652	0.165304	400.5437	0.006104	7.254
39°21'	510451.1931	30.836452	2081.8881	0.020458	29.764
	41768.4834	0.165442	400.9099	0.006112	7.266
39°22'	512301.3802	30.836540	2083.1155	0.020467	29.791
	41778.4099	0.165579	401.2767	0.006121	7.278
39°23'	514151.5726	30.836629	2084.3436	0.020477	29.819
	41788.3447	0.165717	401.6439	0.006129	7.289
39°24'	516001.7703	30.836717	2085.5722	0.020487	29.847
	41798.2877	0.165855	402.0116	0.006137	7.301
39°25'	517851.9734	30.836806	2086.8014	0.020496	29.874
	41808.2391	0.165994	402.3799	0.006146	7.313
39°26'	519702.1817	30.836895	2088.0311	0.020506	29.902
	41818.1987	0.166132	402.7486	0.006154	7.325
39°27'	521552.3954	30.836983	2089.2615	0.020516	29.930
	41828.1666	0.166270	403.1178	0.006162	7.337
39°28'	523402.6144	30.837072	2090.4924	0.020525	29.958
	41838.1428	0.166409	403.4876	0.006171	7.349
39°29'	525252.8387	30.837161	2091.7240	0.020535	29.985
	41848.1274	0.166548	403.8578	0.006179	7.361
39°30'	527103.0683	30.837249	2092.9561	0.020545	30.013
	41858.1202	0.166687	404.2286	0.006188	7.373

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°31'	528953.3033	30.837338	2094.1888	0.020555	30.041
	41868.1214	0.166826	404.5998	0.006196	7.385
39°32'	530803.5435	30.837427	2095.4220	0.020564	30.069
	41878.1310	0.166965	404.9716	0.006205	7.397
39°33'	532653.7891	30.837515	2096.6559	0.020574	30.097
	41888.1489	0.167104	405.3439	0.006213	7.409
39°34'	534504.0401	30.837604	2097.8903	0.020584	30.125
	41898.1751	0.167243	405.7167	0.006222	7.421
39°35'	536354.2963	30.837693	2099.1254	0.020594	30.153
	41908.2097	0.167383	406.0900	0.006230	7.433
39°36'	538204.5578	30.837781	2100.3610	0.020604	30.181
	41918.2527	0.167523	406.4638	0.006239	7.445
39°37'	540054.8247	30.837870	2101.5972	0.020613	30.209
	41928.3040	0.167662	406.8381	0.006247	7.457
39°38'	541905.0969	30.837959	2102.8340	0.020623	30.237
	41938.3638	0.167802	407.2129	0.006256	7.469
39°39'	543755.3745	30.838048	2104.0714	0.020633	30.265
	41948.4319	0.167942	407.5882	0.006264	7.481
39°40'	545605.6573	30.838136	2105.3094	0.020643	30.294
	41958.5084	0.168082	407.9641	0.006273	7.494
39°41'	547455.9455	30.838225	2106.5480	0.020653	30.322
	41968.5934	0.168223	408.3404	0.006281	7.506
39°42'	549306.2390	30.838314	2107.7871	0.020663	30.350
	41978.6867	0.168363	408.7173	0.006290	7.518
39°43'	551156.5378	30.838403	2109.0269	0.020672	30.378
	41988.7885	0.168504	409.0947	0.006299	7.530
39°44'	553006.8420	30.838491	2110.2672	0.020682	30.407
	41998.8987	0.168644	409.4726	0.006307	7.543
39°45'	554857.1515	30.838580	2111.5082	0.020692	30.435
	42009.0174	0.168785	409.8511	0.006316	7.555
39°46'	556707.4663	30.838669	2112.7497	0.020702	30.463
	42019.1445	0.168926	410.2300	0.006324	7.567
39°47'	558557.7864	30.838758	2113.9918	0.020712	30.492
	42029.2800	0.169067	410.6095	0.006333	7.580
39°48'	560408.1119	30.838847	2115.2346	0.020722	30.520
	42039.4241	0.169208	410.9895	0.006342	7.592
39°49'	562258.4427	30.838936	2116.4779	0.020732	30.548
	42049.5766	0.169350	411.3700	0.006350	7.605
39°50'	564108.7789	30.839025	2117.7218	0.020742	30.577
	42059.7375	0.169491	411.7510	0.006359	7.617
39°51'	565959.1203	30.839113	2118.9663	0.020752	30.605
	42069.9070	0.169633	412.1325	0.006368	7.629
39°52'	567809.4671	30.839202	2120.2114	0.020762	30.634
	42080.0850	0.169774	412.5146	0.006377	7.642

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°53'	569659.8193	30.839291	2121.4571	0.020772	30.663
	42090.2714	0.169916	412.8972	0.006385	7.655
39°54'	571510.1768	30.839380	2122.7034	0.020782	30.691
	42100.4664	0.170058	413.2803	0.006394	7.667
39°55'	573360.5396	30.839469	2123.9504	0.020792	30.720
	42110.6699	0.170200	413.6640	0.006403	7.680
39°56'	575210.9077	30.839558	2125.1979	0.020802	30.749
	42120.8819	0.170343	414.0482	0.006412	7.692
39°57'	577061.2812	30.839647	2126.4460	0.020812	30.777
	42131.1025	0.170485	414.4329	0.006421	7.705
39°58'	578911.6600	30.839736	2127.6947	0.020822	30.806
	42141.3316	0.170628	414.8181	0.006429	7.718
39°59'	580762.0441	30.839825	2128.9440	0.020832	30.835
	42151.5692	0.170770	415.2039	0.006438	7.730
40° 0'	582612.4336	30.839914	2130.1939	0.020842	30.864
	42161.8154	0.170913	415.5902	0.006447	7.743
40° 1'	584462.8284	30.840003	2131.4445	0.020852	30.893
	42172.0702	0.171056	415.9770	0.006456	7.756
40° 2'	586313.2286	30.840092	2132.6956	0.020862	30.921
	42182.3336	0.171199	416.3644	0.006465	7.768
40° 3'	588163.6341	30.840181	2133.9473	0.020872	30.950
	42192.6055	0.171342	416.7522	0.006474	7.781
40° 4'	590014.0449	30.840270	2135.1997	0.020882	30.979
	42202.8860	0.171485	417.1407	0.006483	7.794
40° 5'	591864.4611	30.840359	2136.4526	0.020893	31.008
	42213.1752	0.171629	417.5296	0.006492	7.807
40° 6'	593714.8826	30.840448	2137.7062	0.020903	31.037
	42223.4729	0.171773	417.9191	0.006501	7.820
40° 7'	595565.3095	30.840537	2138.9603	0.020913	31.066
	42233.7792	0.171916	418.3092	0.006510	7.832
40° 8'	597415.7417	30.840626	2140.2151	0.020923	31.095
	42244.0942	0.172060	418.6997	0.006518	7.845
40° 9'	599266.1792	30.840715	2141.4705	0.020933	31.125
	42254.4178	0.172204	419.0908	0.006527	7.858
40°10'	601116.6221	30.840804	2142.7265	0.020943	31.154
	42264.7501	0.172348	419.4825	0.006536	7.871
40°11'	602967.0703	30.840893	2143.9830	0.020953	31.183
	42275.0910	0.172493	419.8747	0.006545	7.884
40°12'	604817.5239	30.840982	2145.2403	0.020964	31.212
	42285.4405	0.172637	420.2674	0.006555	7.897
40°13'	606667.9828	30.841071	2146.4981	0.020974	31.241
	42295.7987	0.172781	420.6607	0.006564	7.910
40°14'	608518.4471	30.841160	2147.7565	0.020984	31.271
	42306.1656	0.172926	421.0545	0.006573	7.923

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°15'	610368.9167	30.841249	2149.0156	0.020994	31.300
	42316.5412	0.173071	421.4488	0.006582	7.936
40°16'	612219.3916	30.841338	2150.2752	0.021005	31.329
	42326.9254	0.173216	421.8437	0.006591	7.950
40°17'	614069.8719	30.841427	2151.5355	0.021015	31.359
	42337.3184	0.173361	422.2392	0.006600	7.963
40°18'	615920.3576	30.841517	2152.7964	0.021025	31.388
	42347.7201	0.173506	422.6352	0.006609	7.976
40°19'	617770.8486	30.841606	2154.0579	0.021035	31.418
	42358.1304	0.173652	423.0317	0.006618	7.989
40°20'	619621.3449	30.841695	2155.3200	0.021046	31.447
	42368.5495	0.173797	423.4288	0.006627	8.002
40°21'	621471.8466	30.841784	2156.5828	0.021056	31.477
	42378.9773	0.173943	423.8265	0.006636	8.016
40°22'	623322.3536	30.841873	2157.8461	0.021066	31.506
	42389.4139	0.174088	424.2246	0.006646	8.029
40°23'	625172.8660	30.841962	2159.1101	0.021077	31.536
	42399.8592	0.174234	424.6234	0.006655	8.042
40°24'	627023.3838	30.842052	2160.3747	0.021087	31.565
	42410.3133	0.174380	425.0227	0.006664	8.055
40°25'	628873.9069	30.842141	2161.6399	0.021097	31.595
	42420.7761	0.174527	425.4225	0.006673	8.069
40°26'	630724.4353	30.842230	2162.9057	0.021108	31.625
	42431.2477	0.174673	425.8229	0.006683	8.082
40°27'	632574.9691	30.842319	2164.1722	0.021118	31.654
	42441.7281	0.174819	426.2239	0.006692	8.096
40°28'	634425.5082	30.842408	2165.4393	0.021128	31.684
	42452.2172	0.174966	426.6254	0.006701	8.109
40°29'	636276.0527	30.842498	2166.7070	0.021139	31.714
	42462.7152	0.175113	427.0275	0.006710	8.122
40°30'	638126.6026	30.842587	2167.9753	0.021149	31.744
	42473.2220	0.175260	427.4301	0.006720	8.136
40°31'	639977.1578	30.842676	2169.2442	0.021160	31.774
	42483.7376	0.175407	427.8333	0.006729	8.149
40°32'	641827.7184	30.842765	2170.5138	0.021170	31.804
	42494.2620	0.175554	428.2370	0.006738	8.163
40°33'	643678.2843	30.842855	2171.7840	0.021180	31.833
	42504.7952	0.175701	428.6413	0.006748	8.177
40°34'	645528.8556	30.842944	2173.0548	0.021191	31.863
	42515.3373	0.175849	429.0462	0.006757	8.190
40°35'	647379.4322	30.843033	2174.3263	0.021201	31.893
	42525.8882	0.175996	429.4516	0.006766	8.204
40°36'	649230.0142	30.843122	2175.5984	0.021212	31.923
	42536.4479	0.176144	429.8576	0.006776	8.217

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°37'	651080.6015	30.843212	2176.8711	0.021222	31.954
	42547.0166	0.176292	430.2641	0.006785	8.231
40°38'	652931.1942	30.843301	2178.1444	0.021233	31.984
	42557.5941	0.176440	430.6712	0.006795	8.245
40°39'	654781.7923	30.843390	2179.4184	0.021243	32.014
	42568.1805	0.176588	431.0789	0.006804	8.259
40°40'	656632.3957	30.843480	2180.6930	0.021254	32.044
	42578.7757	0.176736	431.4872	0.006814	8.272
40°41'	658483.0045	30.843569	2181.9682	0.021264	32.074
	42589.3799	0.176885	431.8960	0.006823	8.286
40°42'	660333.6186	30.843658	2183.2440	0.021275	32.104
	42599.9930	0.177033	432.3054	0.006833	8.300
40°43'	662184.2381	30.843748	2184.5205	0.021285	32.135
	42610.6150	0.177182	432.7153	0.006842	8.314
40°44'	664034.8629	30.843837	2185.7976	0.021296	32.165
	42621.2459	0.177331	433.1259	0.006852	8.328
40°45'	665885.4932	30.843926	2187.0754	0.021306	32.195
	42631.8857	0.177480	433.5370	0.006861	8.342
40°46'	667736.1287	30.844016	2188.3538	0.021317	32.226
	42642.5345	0.177629	433.9486	0.006871	8.356
40°47'	669586.7697	30.844105	2189.6328	0.021328	32.256
	42653.1922	0.177778	434.3609	0.006880	8.370
40°48'	671437.4160	30.844194	2190.9125	0.021338	32.287
	42663.8589	0.177928	434.7737	0.006890	8.384
40°49'	673288.0676	30.844284	2192.1928	0.021349	32.317
	42674.5346	0.178077	435.1871	0.006900	8.398
40°50'	675138.7247	30.844373	2193.4737	0.021360	32.348
	42685.2192	0.178227	435.6011	0.006909	8.412
40°51'	676989.3871	30.844463	2194.7553	0.021370	32.378
	42695.9128	0.178377	436.0156	0.006919	8.426
40°52'	678840.0548	30.844552	2196.0375	0.021381	32.409
	42706.6154	0.178527	436.4307	0.006928	8.440
40°53'	680690.7279	30.844641	2197.3203	0.021391	32.440
	42717.3270	0.178677	436.8464	0.006938	8.454
40°54'	682541.4064	30.844731	2198.6038	0.021402	32.470
	42728.0476	0.178827	437.2627	0.006948	8.468
40°55'	684392.0903	30.844820	2199.8879	0.021413	32.501
	42738.7773	0.178978	437.6796	0.006957	8.482
40°56'	686242.7795	30.844910	2201.1727	0.021424	32.532
	42749.5159	0.179128	438.0970	0.006967	8.496
40°57'	688093.4741	30.844999	2202.4581	0.021434	32.562
	42760.2636	0.179279	438.5151	0.006977	8.511
40°58'	689944.1740	30.845089	2203.7442	0.021445	32.593
	42771.0203	0.179430	438.9337	0.006987	8.525

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°59'	691794.8794	30.845178	2205.0309	0.021456	32.624
	42781.7861	0.179581	439.3529	0.006996	8.539
41° 0'	693645.5901	30.845268	2206.3182	0.021466	32.655
	42792.5609	0.179732	439.7727	0.007006	8.554
41° 1'	695496.3061	30.845357	2207.6062	0.021477	32.686
	42803.3448	0.179883	440.1931	0.007016	8.568
41° 2'	697347.0275	30.845447	2208.8948	0.021488	32.717
	42814.1378	0.180035	440.6140	0.007026	8.582
41° 3'	699197.7543	30.845536	2210.1841	0.021499	32.748
	42824.9399	0.180186	441.0356	0.007036	8.597
41° 4'	701048.4865	30.845626	2211.4741	0.021510	32.779
	42835.7511	0.180338	441.4577	0.007046	8.611
41° 5'	702899.2241	30.845715	2212.7646	0.021520	32.810
	42846.5713	0.180490	441.8804	0.007055	8.626
41° 6'	704749.9670	30.845805	2214.0558	0.021531	32.841
	42857.4007	0.180642	442.3038	0.007065	8.640
41° 7'	706600.7152	30.845894	2215.3477	0.021542	32.872
	42868.2392	0.180794	442.7277	0.007075	8.655
41° 8'	708451.4689	30.845984	2216.6402	0.021553	32.904
	42879.0869	0.180946	443.1522	0.007085	8.669
41° 9'	710302.2279	30.846073	2217.9334	0.021564	32.935
	42889.9437	0.181099	443.5773	0.007095	8.684
41°10'	712152.9923	30.846163	2219.2272	0.021575	32.966
	42900.8096	0.181251	444.0030	0.007105	8.699
41°11'	714003.7621	30.846252	2220.5217	0.021585	32.997
	42911.6847	0.181404	444.4293	0.007115	8.713
41°12'	715854.5372	30.846342	2221.8168	0.021596	33.029
	42922.5689	0.181557	444.8562	0.007125	8.728
41°13'	717705.3178	30.846432	2223.1126	0.021607	33.060
	42933.4623	0.181710	445.2837	0.007135	8.743
41°14'	719556.1037	30.846521	2224.4091	0.021618	33.091
	42944.3649	0.181863	445.7118	0.007145	8.758
41°15'	721406.8949	30.846611	2225.7061	0.021629	33.123
	42955.2767	0.182017	446.1405	0.007155	8.772
41°16'	723257.6916	30.846700	2227.0039	0.021640	33.154
	42966.1977	0.182170	446.5698	0.007165	8.787
41°17'	725108.4936	30.846790	2228.3023	0.021651	33.186
	42977.1279	0.182324	446.9997	0.007175	8.802
41°18'	726959.3010	30.846880	2229.6013	0.021662	33.217
	42988.0673	0.182478	447.4302	0.007185	8.817
41°19'	728810.1138	30.846969	2230.9011	0.021673	33.249
	42999.0160	0.182632	447.8614	0.007195	8.832
41°20'	730660.9319	30.847059	2232.2014	0.021684	33.281
	43009.9739	0.182786	448.2931	0.007205	8.847

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

NEVADA Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°21'	732511.7554	30.847148	2233.5025	0.021695	33.312
	43020.9410	0.182940	448.7254	0.007216	8.862
41°22'	734362.5843	30.847238	2234.8042	0.021706	33.344
	43031.9174	0.183094	449.1583	0.007226	8.877
41°23'	736213.4186	30.847328	2236.1065	0.021717	33.376
	43042.9031	0.183249	449.5919	0.007236	8.892
41°24'	738064.2583	30.847417	2237.4095	0.021728	33.408
	43053.8980	0.183403	450.0260	0.007246	8.907
41°25'	739915.1033	30.847507	2238.7132	0.021739	33.439
	43064.9022	0.183558	450.4608	0.007256	8.922
41°26'	741765.9538	30.847597	2240.0176	0.021750	33.471
	43075.9157	0.183713	450.8962	0.007267	8.937
41°27'	743616.8096	30.847686	2241.3226	0.021761	33.503
	43086.9385	0.183868	451.3322	0.007277	8.952
41°28'	745467.6708	30.847776	2242.6282	0.021772	33.535
	43097.9706	0.184024	451.7688	0.007287	8.967
41°29'	747318.5373	30.847866	2243.9346	0.021783	33.567
	43109.0120	0.184179	452.2060	0.007297	8.983
41°30'	749169.4093	30.847955	2245.2416	0.021794	33.599
	43120.0628	0.184335	452.6439	0.007308	8.998
41°31'	751020.2866	30.848045	2246.5492	0.021806	33.631
	43131.1229	0.184491	453.0823	0.007318	9.013
41°32'	752871.1693	30.848135	2247.8576	0.021817	33.663
	43142.1923	0.184646	453.5214	0.007328	9.028
41°33'	754722.0574	30.848225	2249.1666	0.021828	33.695
	43153.2711	0.184803	453.9611	0.007339	9.044
41°34'	756572.9509	30.848314	2250.4762	0.021839	33.728
	43164.3593	0.184959	454.4014	0.007349	9.059
41°35'	758423.8497	30.848404	2251.7866	0.021850	33.760
	43175.4568	0.185115	454.8424	0.007359	9.075
41°36'	760274.7540	30.848494	2253.0976	0.021861	33.792
	43186.5637	0.185272	455.2839	0.007370	9.090
41°37'	762125.6636	30.848584	2254.4093	0.021873	33.824
	43197.6800	0.185428	455.7261	0.007380	9.105
41°38'	763976.5786	30.848673	2255.7216	0.021884	33.857
	43208.8057	0.185585	456.1689	0.007391	9.121
41°39'	765827.4990	30.848763	2257.0347	0.021895	33.889
	43219.9408	0.185742	456.6124	0.007401	9.136
41°40'	767678.4248	30.848853	2258.3484	0.021906	33.921
	43231.0853	0.185899	457.0564	0.007412	9.152
41°41'	769529.3560	30.848943	2259.6627	0.021917	33.954
	43242.2393	0.186056	457.5011	0.007422	9.168
41°42'	771380.2925	30.849032	2260.9778	0.021929	33.986
	43253.4026	0.186214	457.9465	0.007433	9.183

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°43'	773231.2345	30.849122	2262.2935	0.021940	34.019
	43264.5755	0.186371	458.3924	0.007443	9.199
41°44'	775082.1818	30.849212	2263.6099	0.021951	34.051
	43275.7578	0.186529	458.8390	0.007454	9.215
41°45'	776933.1345	30.849302	2264.9270	0.021963	34.084
	43286.9495	0.186687	459.2862	0.007464	9.230
41°46'	778784.0926	30.849392	2266.2447	0.021974	34.117
	43298.1507	0.186845	459.7341	0.007475	9.246
41°47'	780635.0561	30.849481	2267.5632	0.021985	34.149
	43309.3615	0.187003	460.1826	0.007485	9.262
41°48'	782486.0250	30.849571	2268.8823	0.021997	34.182
	43320.5817	0.187162	460.6317	0.007496	9.278
41°49'	784336.9993	30.849661	2270.2021	0.022008	34.215
	43331.8114	0.187320	461.0814	0.007507	9.294
41°50'	786187.9789	30.849751	2271.5225	0.022019	34.248
	43343.0506	0.187479	461.5318	0.007517	9.310
41°51'	788038.9640	30.849841	2272.8437	0.022031	34.280
	43354.2993	0.187638	461.9829	0.007528	9.325
41°52'	789889.9544	30.849931	2274.1655	0.022042	34.313
	43365.5576	0.187797	462.4346	0.007539	9.341
41°53'	791740.9503	30.850020	2275.4881	0.022053	34.346
	43376.8254	0.187956	462.8869	0.007549	9.357
41°54'	793591.9515	30.850110	2276.8113	0.022065	34.379
	43388.1027	0.188115	463.3398	0.007560	9.373
41°55'	795442.9581	30.850200	2278.1351	0.022076	34.412
	43399.3896	0.188275	463.7935	0.007571	9.389
41°56'	797293.9701	30.850290	2279.4597	0.022088	34.445
	43410.6861	0.188434	464.2477	0.007582	9.406
41°57'	799144.9875	30.850380	2280.7850	0.022099	34.478
	43421.9922	0.188594	464.7026	0.007592	9.422
41°58'	800996.0103	30.850470	2282.1109	0.022111	34.511
	43433.3078	0.188754	465.1581	0.007603	9.438
41°59'	802847.0385	30.850560	2283.4376	0.022122	34.545
	43444.6331	0.188914	465.6143	0.007614	9.454
42° 0'	804698.0720	30.850649	2284.7649	0.022134	34.578
	43455.9679	0.189074	466.0712	0.007625	9.470
42° 1'	806549.1110	30.850739	2286.0929	0.022145	34.611
	43467.3124	0.189235	466.5287	0.007636	9.487
42° 2'	808400.1554	30.850829	2287.4216	0.022157	34.644
	43478.6664	0.189395	466.9868	0.007647	9.503
42° 3'	810251.2051	30.850919	2288.7510	0.022168	34.678
	43490.0302	0.189556	467.4456	0.007657	9.519
42° 4'	812102.2603	30.851009	2290.0811	0.022180	34.711
	43501.4035	0.189717	467.9051	0.007668	9.536

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEVADA — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42° 5'	813953.3208	30.851099	2291.4119	0.022191	34.744
	43512.7865	0.189878	468.3652	0.007679	9.552
42° 6'	815804.3868	30.851189	2292.7433	0.022203	34.778
	43524.1792	0.190039	468.8259	0.007690	9.568
42° 7'	817655.4581	30.851279	2294.0755	0.022214	34.811
	43535.5815	0.190200	469.2873	0.007701	9.585
42° 8'	819506.5348	30.851369	2295.4083	0.022226	34.845
	43546.9936	0.190362	469.7494	0.007712	9.601
42° 9'	821357.6170	30.851459	2296.7419	0.022238	34.878
	43558.4153	0.190524	470.2122	0.007723	9.618
42°10'	823208.7045	30.851549	2298.0762	0.022249	34.912
	43569.8467	0.190685	470.6755	0.007734	9.634
42°11'	825059.7974	30.851639	2299.4111	0.022261	34.946
	43581.2878	0.190847	471.1396	0.007745	9.651
42°12'	826910.8957	30.851729	2300.7467	0.022272	34.979
	43592.7387	0.191010	471.6043	0.007756	9.668
42°13'	828761.9994	30.851819	2302.0831	0.022284	35.013
	43604.1992	0.191172	472.0697	0.007767	9.684
42°14'	830613.1085	30.851909	2303.4201	0.022296	35.047
	43615.6695	0.191334	472.5358	0.007779	9.701
42°15'	832464.2231	30.851998	2304.7579	0.022307	35.081
	43627.1496	0.191497	473.0025	0.007790	9.718
42°16'	834315.3430	30.852088	2306.0963	0.022319	35.114
	43638.6394	0.191660	473.4699	0.007801	9.735
42°17'	836166.4683	30.852178	2307.4355	0.022331	35.148
	43650.1390	0.191823	473.9379	0.007812	9.751
42°18'	838017.5990	30.852268	2308.7753	0.022343	35.182
	43661.6484	0.191986	474.4066	0.007823	9.768
42°19'	839868.7351	30.852358	2310.1159	0.022354	35.216
	43673.1675	0.192149	474.8760	0.007834	9.785
42°20'	841719.8766	30.852448	2311.4571	0.022366	35.250
	43684.6965	0.192313	475.3461	0.007846	9.802

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°45'	0.0000	30.812517	5699.9676	0.039831	3.056	
			22412.4361	0.231715	270.647	0.012322
34°46'	1848.7510	30.812602	5702.3575	0.039823	3.056	
			22426.3390	0.231808	270.924	0.012322
34°47'	3697.5072	30.812686	5704.7468	0.039814	3.056	
			22440.2475	0.231902	271.202	0.012322
34°48'	5546.2683	30.812771	5707.1357	0.039806	3.056	
			22454.1616	0.231995	271.480	0.012322
34°49'	7395.0346	30.812856	5709.5241	0.039798	3.056	
			22468.0813	0.232088	271.758	0.012322
34°50'	9243.8059	30.812940	5711.9120	0.039790	3.056	
			22482.0066	0.232182	272.037	0.012322
34°51'	11092.5823	30.813025	5714.2994	0.039782	3.056	
			22495.9375	0.232276	272.316	0.012322
34°52'	12941.3638	30.813109	5716.6863	0.039774	3.056	
			22509.8740	0.232370	272.595	0.012322
34°53'	14790.1504	30.813194	5719.0728	0.039766	3.056	
			22523.8162	0.232464	272.875	0.012322
34°54'	16638.9420	30.813279	5721.4587	0.039758	3.056	
			22537.7640	0.232558	273.155	0.012322
34°55'	18487.7388	30.813363	5723.8442	0.039750	3.056	
			22551.7175	0.232652	273.435	0.012322
34°56'	20336.5406	30.813448	5726.2292	0.039742	3.056	
			22565.6766	0.232746	273.716	0.012322
34°57'	22185.3474	30.813533	5728.6137	0.039734	3.056	
			22579.6413	0.232840	273.997	0.012322
34°58'	24034.1594	30.813617	5730.9978	0.039726	3.056	
			22593.6117	0.232935	274.278	0.012322
34°59'	25882.9764	30.813702	5733.3813	0.039718	3.056	
			22607.5878	0.233029	274.560	0.012322
35° 0'	27731.7986	30.813787	5735.7644	0.039710	3.056	
			22621.5696	0.233124	274.841	0.012322
35° 1'	29580.6258	30.813872	5738.1469	0.039701	3.056	
			22635.5570	0.233218	275.124	0.012322
35° 2'	31429.4581	30.813957	5740.5290	0.039693	3.056	
			22649.5501	0.233313	275.406	0.012322
35° 3'	33278.2955	30.814041	5742.9106	0.039685	3.056	
			22663.5488	0.233408	275.689	0.012322
35° 4'	35127.1380	30.814126	5745.2917	0.039677	3.056	
			22677.5533	0.233503	275.972	0.012322
35° 5'	36975.9855	30.814211	5747.6724	0.039669	3.056	
			22691.5635	0.233598	276.256	0.012321
35° 6'	38824.8382	30.814296	5750.0525	0.039661	3.056	
			22705.5794	0.233693	276.540	0.012321

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35° 7'	40673.6960	30.814381	5752.4322	0.039653	3.056	
			22719.6010	0.233788	276.824	0.012321
35° 8'	42522.5588	30.814466	5754.8113	0.039645	3.056	
			22733.6283	0.233884	277.108	0.012321
35° 9'	44371.4268	30.814551	5757.1900	0.039637	3.056	
			22747.6613	0.233979	277.393	0.012321
35°10'	46220.2998	30.814636	5759.5682	0.039628	3.056	
			22761.7001	0.234075	277.678	0.012321
35°11'	48069.1779	30.814721	5761.9459	0.039620	3.056	
			22775.7445	0.234170	277.964	0.012321
35°12'	49918.0612	30.814806	5764.3232	0.039612	3.056	
			22789.7948	0.234266	278.249	0.012321
35°13'	51766.9495	30.814891	5766.6999	0.039604	3.056	
			22803.8507	0.234362	278.536	0.012321
35°14'	53615.8429	30.814976	5769.0761	0.039596	3.056	
			22817.9125	0.234458	278.822	0.012321
35°15'	55464.7415	30.815061	5771.4519	0.039588	3.056	
			22831.9800	0.234554	279.109	0.012321
35°16'	57313.6451	30.815146	5773.8272	0.039580	3.056	
			22846.0532	0.234650	279.396	0.012321
35°17'	59162.5538	30.815231	5776.2020	0.039572	3.056	
			22860.1322	0.234747	279.683	0.012321
35°18'	61011.4677	30.815316	5778.5762	0.039563	3.056	
			22874.2170	0.234843	279.971	0.012321
35°19'	62860.3866	30.815401	5780.9500	0.039555	3.056	
			22888.3076	0.234939	280.259	0.012321
35°20'	64709.3107	30.815486	5783.3234	0.039547	3.056	
			22902.4040	0.235036	280.548	0.012321
35°21'	66558.2399	30.815571	5785.6962	0.039539	3.056	
			22916.5061	0.235133	280.836	0.012321
35°22'	68407.1741	30.815656	5788.0685	0.039531	3.056	
			22930.6141	0.235229	281.126	0.012321
35°23'	70256.1135	30.815742	5790.4404	0.039523	3.056	
			22944.7278	0.235326	281.415	0.012321
35°24'	72105.0580	30.815827	5792.8117	0.039514	3.056	
			22958.8474	0.235423	281.705	0.012321
35°25'	73954.0076	30.815912	5795.1826	0.039506	3.056	
			22972.9728	0.235520	281.995	0.012321
35°26'	75802.9623	30.815997	5797.5530	0.039498	3.056	
			22987.1040	0.235617	282.285	0.012321
35°27'	77651.9222	30.816082	5799.9228	0.039490	3.056	
			23001.2410	0.235715	282.576	0.012320
35°28'	79500.8871	30.816168	5802.2922	0.039482	3.056	
			23015.3839	0.235812	282.867	0.012320

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°29'	81349.8572	30.816253	5804.6611	0.039474	3.056	
			23029.5326	0.235909	283.159	0.012320
35°30'	83198.8323	30.816338	5807.0296	0.039465	3.056	
			23043.6872	0.236007	283.450	0.012320
35°31'	85047.8126	30.816424	5809.3975	0.039457	3.056	
			23057.8476	0.236105	283.743	0.012320
35°32'	86896.7981	30.816509	5811.7649	0.039449	3.056	
			23072.0139	0.236202	284.035	0.012320
35°33'	88745.7886	30.816594	5814.1318	0.039441	3.056	
			23086.1860	0.236300	284.328	0.012320
35°34'	90594.7842	30.816680	5816.4983	0.039433	3.056	
			23100.3640	0.236398	284.621	0.012320
35°35'	92443.7850	30.816765	5818.8642	0.039424	3.056	
			23114.5479	0.236496	284.914	0.012320
35°36'	94292.7909	30.816850	5821.2297	0.039416	3.056	
			23128.7377	0.236594	285.208	0.012320
35°37'	96141.8020	30.816936	5823.5947	0.039408	3.056	
			23142.9334	0.236693	285.502	0.012320
35°38'	97990.8181	30.817021	5825.9591	0.039400	3.056	
			23157.1349	0.236791	285.797	0.012320
35°39'	99839.8394	30.817107	5828.3231	0.039391	3.056	
			23171.3424	0.236890	286.092	0.012320
35°40'	101688.8658	30.817192	5830.6866	0.039383	3.056	
			23185.5558	0.236988	286.387	0.012320
35°41'	103537.8973	30.817278	5833.0496	0.039375	3.055	
			23199.7751	0.237087	286.683	0.012320
35°42'	105386.9340	30.817363	5835.4121	0.039367	3.055	
			23214.0003	0.237186	286.978	0.012320
35°43'	107235.9758	30.817449	5837.7741	0.039359	3.055	
			23228.2314	0.237284	287.275	0.012320
35°44'	109085.0227	30.817534	5840.1356	0.039350	3.055	
			23242.4685	0.237383	287.571	0.012320
35°45'	110934.0748	30.817620	5842.4967	0.039342	3.055	
			23256.7115	0.237482	287.868	0.012320
35°46'	112783.1320	30.817705	5844.8572	0.039334	3.055	
			23270.9604	0.237582	288.165	0.012320
35°47'	114632.1943	30.817791	5847.2172	0.039326	3.055	
			23285.2153	0.237681	288.463	0.012320
35°48'	116481.2618	30.817877	5849.5767	0.039317	3.055	
			23299.4762	0.237780	288.761	0.012320
35°49'	118330.3344	30.817962	5851.9358	0.039309	3.055	
			23313.7430	0.237880	289.059	0.012319
35°50'	120179.4121	30.818048	5854.2943	0.039301	3.055	
			23328.0158	0.237979	289.358	0.012319

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

NEVADA — Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°51'	122028.4950	30.818134	5856.6524	0.039293	3.055	
			23342.2945	0.238079	289.657	0.012319
35°52'	123877.5830	30.818219	5859.0099	0.039284	3.055	
			23356.5793	0.238179	289.956	0.012319
35°53'	125726.6762	30.818305	5861.3670	0.039276	3.055	
			23370.8700	0.238279	290.256	0.012319
35°54'	127575.7745	30.818391	5863.7236	0.039268	3.055	
			23385.1668	0.238379	290.556	0.012319
35°55'	129424.8779	30.818476	5866.0796	0.039260	3.055	
			23399.4695	0.238479	290.856	0.012319
35°56'	131273.9865	30.818562	5868.4352	0.039251	3.054	
			23413.7782	0.238579	291.157	0.012319
35°57'	133123.1002	30.818648	5870.7903	0.039243	3.054	
			23428.0930	0.238679	291.458	0.012319
35°58'	134972.2191	30.818734	5873.1449	0.039235	3.054	
			23442.4137	0.238780	291.760	0.012319
35°59'	136821.3431	30.818820	5875.4989	0.039226	3.054	
			23456.7405	0.238880	292.061	0.012319
36° 0'	138670.4723	30.818905	5877.8525	0.039218	3.054	
			23471.0734	0.238981	292.364	0.012319
36° 1'	140519.6066	30.818991	5880.2056	0.039210	3.054	
			23485.4122	0.239082	292.666	0.012319
36° 2'	142368.7461	30.819077	5882.5582	0.039202	3.054	
			23499.7571	0.239183	292.969	0.012319
36° 3'	144217.8907	30.819163	5884.9103	0.039193	3.054	
			23514.1081	0.239284	293.272	0.012319
36° 4'	146067.0405	30.819249	5887.2619	0.039185	3.054	
			23528.4651	0.239385	293.576	0.012319
36° 5'	147916.1954	30.819335	5889.6130	0.039177	3.054	
			23542.8282	0.239486	293.880	0.012319
36° 6'	149765.3555	30.819421	5891.9636	0.039168	3.054	
			23557.1973	0.239587	294.184	0.012319
36° 7'	151614.5207	30.819507	5894.3137	0.039160	3.054	
			23571.5726	0.239688	294.489	0.012319
36° 8'	153463.6911	30.819592	5896.6633	0.039152	3.053	
			23585.9539	0.239790	294.794	0.012319
36° 9'	155312.8667	30.819678	5899.0124	0.039143	3.053	
			23600.3413	0.239891	295.099	0.012319
36°10'	157162.0474	30.819764	5901.3610	0.039135	3.053	
			23614.7348	0.239993	295.405	0.012319
36°11'	159011.2332	30.819850	5903.7091	0.039127	3.053	
			23629.1344	0.240095	295.711	0.012318
36°12'	160860.4243	30.819936	5906.0567	0.039118	3.053	
			23643.5400	0.240197	296.017	0.012318

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°13'	162709.6204	30.820022	5908.4038	0.039110	3.053	
			23657.9519	0.240299	296.324	0.012318
36°14'	164558.8218	30.820108	5910.7504	0.039102	3.053	
			23672.3698	0.240401	296.631	0.012318
36°15'	166408.0283	30.820195	5913.0965	0.039093	3.053	
			23686.7938	0.240503	296.939	0.012318
36°16'	168257.2400	30.820281	5915.4421	0.039085	3.053	
			23701.2240	0.240605	297.247	0.012318
36°17'	170106.4568	30.820367	5917.7872	0.039077	3.052	
			23715.6604	0.240708	297.555	0.012318
36°18'	171955.6788	30.820453	5920.1318	0.039068	3.052	
			23730.1028	0.240810	297.863	0.012318
36°19'	173804.9060	30.820539	5922.4759	0.039060	3.052	
			23744.5515	0.240913	298.172	0.012318
36°20'	175654.1383	30.820625	5924.8195	0.039052	3.052	
			23759.0063	0.241016	298.482	0.012318
36°21'	177503.3758	30.820711	5927.1626	0.039043	3.052	
			23773.4672	0.241119	298.791	0.012318
36°22'	179352.6185	30.820797	5929.5052	0.039035	3.052	
			23787.9343	0.241222	299.102	0.012318
36°23'	181201.8663	30.820884	5931.8473	0.039027	3.052	
			23802.4076	0.241325	299.412	0.012318
36°24'	183051.1193	30.820970	5934.1889	0.039018	3.052	
			23816.8871	0.241428	299.723	0.012318
36°25'	184900.3775	30.821056	5936.5300	0.039010	3.052	
			23831.3728	0.241531	300.034	0.012318
36°26'	186749.6409	30.821142	5938.8705	0.039001	3.051	
			23845.8646	0.241635	300.346	0.012318
36°27'	188598.9094	30.821228	5941.2106	0.038993	3.051	
			23860.3627	0.241738	300.657	0.012318
36°28'	190448.1831	30.821315	5943.5502	0.038985	3.051	
			23874.8670	0.241842	300.970	0.012318
36°29'	192297.4620	30.821401	5945.8893	0.038976	3.051	
			23889.3775	0.241945	301.282	0.012318
36°30'	194146.7461	30.821487	5948.2279	0.038968	3.051	
			23903.8942	0.242049	301.595	0.012318
36°31'	195996.0353	30.821574	5950.5659	0.038959	3.051	
			23918.4172	0.242153	301.909	0.012318
36°32'	197845.3297	30.821660	5952.9035	0.038951	3.051	
			23932.9464	0.242257	302.223	0.012318
36°33'	199694.6293	30.821746	5955.2406	0.038943	3.050	
			23947.4818	0.242361	302.537	0.012317
36°34'	201543.9341	30.821833	5957.5771	0.038934	3.050	
			23962.0235	0.242466	302.851	0.012317

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA

Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°35'	203393.2441	30.821919	5959.9132	0.038926	3.050	
			23976.5714	0.242570	303.166	0.012317
36°36'	205242.5592	30.822005	5962.2487	0.038917	3.050	
			23991.1256	0.242674	303.481	0.012317
36°37'	207091.8796	30.822092	5964.5838	0.038909	3.050	
			24005.6860	0.242779	303.797	0.012317
36°38'	208941.2051	30.822178	5966.9183	0.038901	3.050	
			24020.2528	0.242884	304.113	0.012317
36°39'	210790.5358	30.822265	5969.2524	0.038892	3.050	
			24034.8258	0.242988	304.429	0.012317
36°40'	212639.8717	30.822351	5971.5859	0.038884	3.050	
			24049.4051	0.243093	304.746	0.012317
36°41'	214489.2127	30.822438	5973.9189	0.038875	3.049	
			24063.9907	0.243198	305.063	0.012317
36°42'	216338.5590	30.822524	5976.2515	0.038867	3.049	
			24078.5826	0.243303	305.381	0.012317
36°43'	218187.9104	30.822611	5978.5835	0.038859	3.049	
			24093.1808	0.243409	305.699	0.012317
36°44'	220037.2671	30.822697	5980.9150	0.038850	3.049	
			24107.7853	0.243514	306.017	0.012317
36°45'	221886.6289	30.822784	5983.2460	0.038842	3.049	
			24122.3962	0.243620	306.336	0.012317
36°46'	223735.9959	30.822870	5985.5765	0.038833	3.049	
			24137.0133	0.243725	306.655	0.012317
36°47'	225585.3681	30.822957	5987.9065	0.038825	3.048	
			24151.6369	0.243831	306.974	0.012317
36°48'	227434.7456	30.823043	5990.2360	0.038816	3.048	
			24166.2667	0.243937	307.294	0.012317
36°49'	229284.1282	30.823130	5992.5650	0.038808	3.048	
			24180.9029	0.244042	307.614	0.012317
36°50'	231133.5160	30.823217	5994.8934	0.038799	3.048	
			24195.5454	0.244148	307.935	0.012317
36°51'	232982.9090	30.823303	5997.2214	0.038791	3.048	
			24210.1943	0.244255	308.256	0.012317
36°52'	234832.3071	30.823390	5999.5489	0.038783	3.048	
			24224.8496	0.244361	308.577	0.012317
36°53'	236681.7105	30.823477	6001.8758	0.038774	3.047	
			24239.5113	0.244467	308.899	0.012317
36°54'	238531.1191	30.823563	6004.2023	0.038766	3.047	
			24254.1793	0.244574	309.221	0.012317
36°55'	240380.5329	30.823650	6006.5282	0.038757	3.047	
			24268.8537	0.244680	309.543	0.012316
36°56'	242229.9519	30.823737	6008.8536	0.038749	3.047	
			24283.5345	0.244787	309.866	0.012316

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°57'	244079.3761	30.823823	6011.1785	0.038740	3.047	
			24298.2217	0.244894	310.189	0.012316
36°58'	245928.8055	30.823910	6013.5029	0.038732	3.047	
			24312.9153	0.245000	310.513	0.012316
36°59'	247778.2401	30.823997	6015.8268	0.038723	3.046	
			24327.6154	0.245108	310.837	0.012316
37° 0'	249627.6799	30.824084	6018.1502	0.038715	3.046	
			24342.3218	0.245215	311.161	0.012316
37° 1'	251477.1249	30.824170	6020.4731	0.038706	3.046	
			24357.0347	0.245322	311.486	0.012316
37° 2'	253326.5751	30.824257	6022.7955	0.038698	3.046	
			24371.7540	0.245429	311.811	0.012316
37° 3'	255176.0306	30.824344	6025.1173	0.038689	3.046	
			24386.4798	0.245537	312.137	0.012316
37° 4'	257025.4912	30.824431	6027.4387	0.038681	3.046	
			24401.2120	0.245644	312.463	0.012316
37° 5'	258874.9570	30.824518	6029.7595	0.038672	3.045	
			24415.9506	0.245752	312.789	0.012316
37° 6'	260724.4281	30.824604	6032.0799	0.038664	3.045	
			24430.6957	0.245860	313.116	0.012316
37° 7'	262573.9044	30.824691	6034.3997	0.038655	3.045	
			24445.4473	0.245968	313.443	0.012316
37° 8'	264423.3858	30.824778	6036.7190	0.038647	3.045	
			24460.2054	0.246076	313.771	0.012316
37° 9'	266272.8725	30.824865	6039.0378	0.038638	3.045	
			24474.9699	0.246184	314.099	0.012316
37°10'	268122.3644	30.824952	6041.3561	0.038630	3.044	
			24489.7409	0.246292	314.427	0.012316
37°11'	269971.8615	30.825039	6043.6739	0.038621	3.044	
			24504.5184	0.246400	314.756	0.012316
37°12'	271821.3639	30.825126	6045.9911	0.038613	3.044	
			24519.3025	0.246509	315.085	0.012316
37°13'	273670.8714	30.825213	6048.3079	0.038604	3.044	
			24534.0930	0.246617	315.415	0.012316
37°14'	275520.3842	30.825300	6050.6241	0.038596	3.044	
			24548.8900	0.246726	315.745	0.012316
37°15'	277369.9021	30.825387	6052.9399	0.038587	3.043	
			24563.6936	0.246835	316.075	0.012316
37°16'	279219.4253	30.825474	6055.2551	0.038578	3.043	
			24578.5037	0.246944	316.406	0.012315
37°17'	281068.9538	30.825561	6057.5698	0.038570	3.043	
			24593.3203	0.247053	316.737	0.012315
37°18'	282918.4874	30.825648	6059.8840	0.038561	3.043	
			24608.1435	0.247162	317.068	0.012315

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°19'	284768.0263	30.825735	6062.1977	0.038553	3.043	
			24622.9733	0.247271	317.400	0.012315
37°20'	286617.5703	30.825822	6064.5109	0.038544	3.042	
			24637.8095	0.247381	317.733	0.012315
37°21'	288467.1197	30.825909	6066.8235	0.038536	3.042	
			24652.6524	0.247490	318.065	0.012315
37°22'	290316.6742	30.825996	6069.1357	0.038527	3.042	
			24667.5018	0.247600	318.398	0.012315
37°23'	292166.2339	30.826083	6071.4473	0.038519	3.042	
			24682.3578	0.247710	318.732	0.012315
37°24'	294015.7989	30.826170	6073.7584	0.038510	3.042	
			24697.2204	0.247819	319.066	0.012315
37°25'	295865.3691	30.826257	6076.0690	0.038501	3.041	
			24712.0895	0.247929	319.400	0.012315
37°26'	297714.9446	30.826344	6078.3791	0.038493	3.041	
			24726.9653	0.248040	319.735	0.012315
37°27'	299564.5252	30.826432	6080.6887	0.038484	3.041	
			24741.8477	0.248150	320.070	0.012315
37°28'	301414.1111	30.826519	6082.9977	0.038476	3.041	
			24756.7367	0.248260	320.406	0.012315
37°29'	303263.7022	30.826606	6085.3063	0.038467	3.041	
			24771.6323	0.248370	320.742	0.012315
37°30'	305113.2986	30.826693	6087.6143	0.038459	3.040	
			24786.5345	0.248481	321.078	0.012315
37°31'	306962.9002	30.826780	6089.9218	0.038450	3.040	
			24801.4433	0.248592	321.415	0.012315
37°32'	308812.5070	30.826867	6092.2288	0.038441	3.040	
			24816.3588	0.248702	321.752	0.012315
37°33'	310662.1190	30.826955	6094.5353	0.038433	3.040	
			24831.2810	0.248813	322.090	0.012315
37°34'	312511.7363	30.827042	6096.8413	0.038424	3.039	
			24846.2098	0.248924	322.428	0.012315
37°35'	314361.3588	30.827129	6099.1467	0.038416	3.039	
			24861.1452	0.249035	322.766	0.012315
37°36'	316210.9866	30.827216	6101.4516	0.038407	3.039	
			24876.0874	0.249147	323.105	0.012315
37°37'	318060.6196	30.827304	6103.7561	0.038398	3.039	
			24891.0362	0.249258	323.444	0.012315
37°38'	319910.2578	30.827391	6106.0600	0.038390	3.038	
			24905.9917	0.249370	323.784	0.012314
37°39'	321759.9013	30.827478	6108.3633	0.038381	3.038	
			24920.9538	0.249481	324.124	0.012314
37°40'	323609.5500	30.827566	6110.6662	0.038373	3.038	
			24935.9227	0.249593	324.465	0.012314

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°41'	325459.2039	30.827653	6112.9686	0.038364	3.038	
			24950.8983	0.249705	324.805	0.012314
37°42'	327308.8631	30.827740	6115.2704	0.038355	3.038	
			24965.8806	0.249817	325.147	0.012314
37°43'	329158.5275	30.827828	6117.5717	0.038347	3.037	
			24980.8696	0.249929	325.489	0.012314
37°44'	331008.1972	30.827915	6119.8725	0.038338	3.037	
			24995.8653	0.250041	325.831	0.012314
37°45'	332857.8721	30.828003	6122.1728	0.038329	3.037	
			25010.8677	0.250153	326.173	0.012314
37°46'	334707.5523	30.828090	6124.4726	0.038321	3.037	
			25025.8769	0.250266	326.516	0.012314
37°47'	336557.2377	30.828177	6126.7718	0.038312	3.036	
			25040.8929	0.250378	326.860	0.012314
37°48'	338406.9283	30.828265	6129.0705	0.038303	3.036	
			25055.9155	0.250491	327.204	0.012314
37°49'	340256.6242	30.828352	6131.3687	0.038295	3.036	
			25070.9450	0.250604	327.548	0.012314
37°50'	342106.3253	30.828440	6133.6664	0.038286	3.036	
			25085.9812	0.250716	327.892	0.012314
37°51'	343956.0317	30.828527	6135.9636	0.038278	3.035	
			25101.0242	0.250829	328.238	0.012314
37°52'	345805.7434	30.828615	6138.2603	0.038269	3.035	
			25116.0740	0.250943	328.583	0.012314
37°53'	347655.4603	30.828702	6140.5564	0.038260	3.035	
			25131.1305	0.251056	328.929	0.012314
37°54'	349505.1824	30.828790	6142.8520	0.038252	3.035	
			25146.1939	0.251169	329.275	0.012314
37°55'	351354.9098	30.828877	6145.1471	0.038243	3.034	
			25161.2640	0.251283	329.622	0.012314
37°56'	353204.6424	30.828965	6147.4417	0.038234	3.034	
			25176.3410	0.251396	329.969	0.012314
37°57'	355054.3803	30.829052	6149.7357	0.038226	3.034	
			25191.4248	0.251510	330.317	0.012314
37°58'	356904.1235	30.829140	6152.0293	0.038217	3.034	
			25206.5154	0.251624	330.665	0.012314
37°59'	358753.8719	30.829228	6154.3223	0.038208	3.033	
			25221.6128	0.251738	331.014	0.012313
38° 0'	360603.6255	30.829315	6156.6148	0.038199	3.033	
			25236.7171	0.251852	331.363	0.012313
38° 1'	362453.3844	30.829403	6158.9067	0.038191	3.033	
			25251.8282	0.251966	331.712	0.012313
38° 2'	364303.1486	30.829490	6161.1982	0.038182	3.032	
			25266.9462	0.252081	332.062	0.012313

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38° 3'	366152.9180	30.829578	6163.4891	0.038173	3.032	
			25282.0710	0.252195	332.412	0.012313
38° 4'	368002.6927	30.829666	6165.7795	0.038165	3.032	
			25297.2027	0.252310	332.763	0.012313
38° 5'	369852.4726	30.829753	6168.0694	0.038156	3.032	
			25312.3413	0.252424	333.114	0.012313
38° 6'	371702.2578	30.829841	6170.3588	0.038147	3.031	
			25327.4868	0.252539	333.465	0.012313
38° 7'	373552.0483	30.829929	6172.6476	0.038139	3.031	
			25342.6391	0.252654	333.817	0.012313
38° 8'	375401.8440	30.830016	6174.9359	0.038130	3.031	
			25357.7984	0.252769	334.170	0.012313
38° 9'	377251.6450	30.830104	6177.2237	0.038121	3.031	
			25372.9645	0.252884	334.522	0.012313
38°10'	379101.4513	30.830192	6179.5110	0.038112	3.030	
			25388.1376	0.253000	334.876	0.012313
38°11'	380951.2628	30.830280	6181.7977	0.038104	3.030	
			25403.3175	0.253115	335.229	0.012313
38°12'	382801.0796	30.830367	6184.0840	0.038095	3.030	
			25418.5044	0.253231	335.584	0.012313
38°13'	384650.9016	30.830455	6186.3697	0.038086	3.029	
			25433.6983	0.253346	335.938	0.012313
38°14'	386500.7289	30.830543	6188.6548	0.038078	3.029	
			25448.8991	0.253462	336.293	0.012313
38°15'	388350.5615	30.830631	6190.9395	0.038069	3.029	
			25464.1068	0.253578	336.649	0.012313
38°16'	390200.3993	30.830719	6193.2236	0.038060	3.029	
			25479.3215	0.253694	337.004	0.012313
38°17'	392050.2424	30.830806	6195.5072	0.038051	3.028	
			25494.5431	0.253810	337.361	0.012313
38°18'	393900.0908	30.830894	6197.7903	0.038043	3.028	
			25509.7717	0.253926	337.718	0.012313
38°19'	395749.9445	30.830982	6200.0729	0.038034	3.028	
			25525.0073	0.254043	338.075	0.012313
38°20'	397599.8034	30.831070	6202.3549	0.038025	3.027	
			25540.2499	0.254159	338.432	0.012313
38°21'	399449.6676	30.831158	6204.6364	0.038016	3.027	
			25555.4995	0.254276	338.790	0.012312
38°22'	401299.5371	30.831246	6206.9174	0.038008	3.027	
			25570.7560	0.254393	339.149	0.012312
38°23'	403149.4118	30.831334	6209.1979	0.037999	3.026	
			25586.0196	0.254510	339.508	0.012312
38°24'	404999.2918	30.831421	6211.4778	0.037990	3.026	
			25601.2902	0.254627	339.867	0.012312

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°25'	406849.1771	30.831509	6213.7572	0.037981	3.026	
			25616.5678	0.254744	340.227	0.012312
38°26'	408699.0677	30.831597	6216.0361	0.037973	3.026	
			25631.8524	0.254861	340.588	0.012312
38°27'	410548.9635	30.831685	6218.3145	0.037964	3.025	
			25647.1441	0.254979	340.948	0.012312
38°28'	412398.8646	30.831773	6220.5923	0.037955	3.025	
			25662.4428	0.255096	341.310	0.012312
38°29'	414248.7710	30.831861	6222.8696	0.037946	3.025	
			25677.7486	0.255214	341.671	0.012312
38°30'	416098.6827	30.831949	6225.1464	0.037938	3.024	
			25693.0614	0.255332	342.033	0.012312
38°31'	417948.5996	30.832037	6227.4226	0.037929	3.024	
			25708.3813	0.255450	342.396	0.012312
38°32'	419798.5218	30.832125	6229.6983	0.037920	3.024	
			25723.7083	0.255568	342.759	0.012312
38°33'	421648.4493	30.832213	6231.9735	0.037911	3.023	
			25739.0423	0.255686	343.122	0.012312
38°34'	423498.3821	30.832301	6234.2482	0.037902	3.023	
			25754.3835	0.255804	343.486	0.012312
38°35'	425348.3202	30.832389	6236.5224	0.037894	3.023	
			25769.7317	0.255922	343.851	0.012312
38°36'	427198.2635	30.832477	6238.7960	0.037885	3.022	
			25785.0871	0.256041	344.216	0.012312
38°37'	429048.2122	30.832565	6241.0691	0.037876	3.022	
			25800.4495	0.256160	344.581	0.012312
38°38'	430898.1661	30.832653	6243.3416	0.037867	3.022	
			25815.8191	0.256278	344.947	0.012312
38°39'	432748.1253	30.832741	6245.6136	0.037858	3.021	
			25831.1958	0.256397	345.313	0.012312
38°40'	434598.0898	30.832830	6247.8851	0.037850	3.021	
			25846.5796	0.256516	345.679	0.012312
38°41'	436448.0596	30.832918	6250.1561	0.037841	3.021	
			25861.9706	0.256635	346.047	0.012312
38°42'	438298.0346	30.833006	6252.4266	0.037832	3.020	
			25877.3687	0.256755	346.414	0.012311
38°43'	440148.0150	30.833094	6254.6965	0.037823	3.020	
			25892.7740	0.256874	346.782	0.012311
38°44'	441998.0006	30.833182	6256.9659	0.037814	3.020	
			25908.1865	0.256994	347.151	0.012311
38°45'	443847.9915	30.833270	6259.2347	0.037805	3.019	
			25923.6061	0.257113	347.520	0.012311
38°46'	445697.9878	30.833358	6261.5030	0.037797	3.019	
			25939.0329	0.257233	347.889	0.012311

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°47'	447547.9893	30.833447	6263.7708	0.037788	3.019	
			25954.4669	0.257353	348.259	0.012311
38°48'	449397.9961	30.833535	6266.0381	0.037779	3.018	
			25969.9081	0.257473	348.629	0.012311
38°49'	451248.0081	30.833623	6268.3049	0.037770	3.018	
			25985.3565	0.257593	349.000	0.012311
38°50'	453098.0255	30.833711	6270.5711	0.037761	3.018	
			26000.8121	0.257714	349.371	0.012311
38°51'	454948.0482	30.833799	6272.8367	0.037752	3.017	
			26016.2749	0.257834	349.743	0.012311
38°52'	456798.0762	30.833888	6275.1019	0.037744	3.017	
			26031.7450	0.257955	350.115	0.012311
38°53'	458648.1094	30.833976	6277.3665	0.037735	3.017	
			26047.2222	0.258075	350.488	0.012311
38°54'	460498.1480	30.834064	6279.6306	0.037726	3.016	
			26062.7068	0.258196	350.861	0.012311
38°55'	462348.1918	30.834152	6281.8941	0.037717	3.016	
			26078.1985	0.258317	351.235	0.012311
38°56'	464198.2410	30.834241	6284.1571	0.037708	3.016	
			26093.6976	0.258438	351.609	0.012311
38°57'	466048.2954	30.834329	6286.4196	0.037699	3.015	
			26109.2039	0.258559	351.983	0.012311
38°58'	467898.3552	30.834417	6288.6816	0.037690	3.015	
			26124.7174	0.258681	352.358	0.012311
38°59'	469748.4202	30.834506	6290.9430	0.037682	3.015	
			26140.2383	0.258802	352.734	0.012311
39° 0'	471598.4906	30.834594	6293.2039	0.037673	3.014	
			26155.7664	0.258924	353.110	0.012311
39° 1'	473448.5662	30.834682	6295.4643	0.037664	3.014	
			26171.3018	0.259046	353.486	0.012311
39° 2'	475298.6472	30.834771	6297.7241	0.037655	3.014	
			26186.8446	0.259167	353.863	0.012311
39° 3'	477148.7334	30.834859	6299.9834	0.037646	3.013	
			26202.3946	0.259289	354.240	0.012310
39° 4'	478998.8249	30.834947	6302.2422	0.037637	3.013	
			26217.9520	0.259412	354.618	0.012310
39° 5'	480848.9218	30.835036	6304.5004	0.037628	3.013	
			26233.5167	0.259534	354.997	0.012310
39° 6'	482699.0239	30.835124	6306.7581	0.037619	3.012	
			26249.0887	0.259656	355.375	0.012310
39° 7'	484549.1314	30.835213	6309.0152	0.037610	3.012	
			26264.6681	0.259779	355.755	0.012310
39° 8'	486399.2442	30.835301	6311.2719	0.037602	3.011	
			26280.2548	0.259901	356.134	0.012310

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39° 9'	488249.3622	30.835390	6313.5280	0.037593	3.011	
			26295.8489	0.260024	356.515	0.012310
39°10'	490099.4856	30.835478	6315.7835	0.037584	3.011	
			26311.4504	0.260147	356.895	0.012310
39°11'	491949.6143	30.835566	6318.0385	0.037575	3.010	
			26327.0592	0.260270	357.277	0.012310
39°12'	493799.7483	30.835655	6320.2930	0.037566	3.010	
			26342.6754	0.260393	357.658	0.012310
39°13'	495649.8876	30.835743	6322.5470	0.037557	3.010	
			26358.2990	0.260517	358.040	0.012310
39°14'	497500.0322	30.835832	6324.8004	0.037548	3.009	
			26373.9300	0.260640	358.423	0.012310
39°15'	499350.1821	30.835920	6327.0533	0.037539	3.009	
			26389.5684	0.260764	358.806	0.012310
39°16'	501200.3373	30.836009	6329.3056	0.037530	3.008	
			26405.2142	0.260887	359.190	0.012310
39°17'	503050.4978	30.836097	6331.5574	0.037521	3.008	
			26420.8675	0.261011	359.574	0.012310
39°18'	504900.6637	30.836186	6333.8087	0.037512	3.008	
			26436.5281	0.261135	359.959	0.012310
39°19'	506750.8348	30.836274	6336.0595	0.037503	3.007	
			26452.1962	0.261259	360.344	0.012310
39°20'	508601.0113	30.836363	6338.3097	0.037494	3.007	
			26467.8718	0.261383	360.729	0.012310
39°21'	510451.1931	30.836452	6340.5593	0.037486	3.007	
			26483.5548	0.261508	361.115	0.012310
39°22'	512301.3802	30.836540	6342.8085	0.037477	3.006	
			26499.2453	0.261632	361.502	0.012310
39°23'	514151.5726	30.836629	6345.0571	0.037468	3.006	
			26514.9432	0.261757	361.889	0.012310
39°24'	516001.7703	30.836717	6347.3051	0.037459	3.005	
			26530.6486	0.261882	362.276	0.012310
39°25'	517851.9734	30.836806	6349.5527	0.037450	3.005	
			26546.3615	0.262007	362.664	0.012309
39°26'	519702.1817	30.836895	6351.7996	0.037441	3.005	
			26562.0819	0.262132	363.053	0.012309
39°27'	521552.3954	30.836983	6354.0461	0.037432	3.004	
			26577.8098	0.262257	363.442	0.012309
39°28'	523402.6144	30.837072	6356.2920	0.037423	3.004	
			26593.5452	0.262382	363.831	0.012309
39°29'	525252.8387	30.837161	6358.5374	0.037414	3.003	
			26609.2882	0.262508	364.222	0.012309
39°30'	527103.0683	30.837249	6360.7822	0.037405	3.003	
			26625.0386	0.262633	364.612	0.012309

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°31'	528953.3033	30.837338	6363.0265	0.037396	3.003	
			26640.7966	0.262759	365.003	0.012309
39°32'	530803.5435	30.837427	6365.2703	0.037387	3.002	
			26656.5621	0.262885	365.395	0.012309
39°33'	532653.7891	30.837515	6367.5135	0.037378	3.002	
			26672.3352	0.263011	365.787	0.012309
39°34'	534504.0401	30.837604	6369.7562	0.037369	3.001	
			26688.1159	0.263137	366.179	0.012309
39°35'	536354.2963	30.837693	6371.9983	0.037360	3.001	
			26703.9041	0.263263	366.572	0.012309
39°36'	538204.5578	30.837781	6374.2399	0.037351	3.001	
			26719.6999	0.263389	366.966	0.012309
39°37'	540054.8247	30.837870	6376.4810	0.037342	3.000	
			26735.5032	0.263516	367.360	0.012309
39°38'	541905.0969	30.837959	6378.7215	0.037333	3.000	
			26751.3142	0.263643	367.754	0.012309
39°39'	543755.3745	30.838048	6380.9615	0.037324	2.999	
			26767.1327	0.263769	368.149	0.012309
39°40'	545605.6573	30.838136	6383.2009	0.037315	2.999	
			26782.9589	0.263896	368.545	0.012309
39°41'	547455.9455	30.838225	6385.4398	0.037306	2.999	
			26798.7927	0.264023	368.941	0.012309
39°42'	549306.2390	30.838314	6387.6782	0.037297	2.998	
			26814.6341	0.264151	369.337	0.012309
39°43'	551156.5378	30.838403	6389.9160	0.037288	2.998	
			26830.4831	0.264278	369.734	0.012309
39°44'	553006.8420	30.838491	6392.1533	0.037279	2.997	
			26846.3398	0.264405	370.132	0.012309
39°45'	554857.1515	30.838580	6394.3900	0.037270	2.997	
			26862.2041	0.264533	370.530	0.012309
39°46'	556707.4663	30.838669	6396.6262	0.037261	2.996	
			26878.0761	0.264661	370.928	0.012308
39°47'	558557.7864	30.838758	6398.8619	0.037252	2.996	
			26893.9558	0.264789	371.327	0.012308
39°48'	560408.1119	30.838847	6401.0970	0.037243	2.996	
			26909.8431	0.264917	371.727	0.012308
39°49'	562258.4427	30.838936	6403.3316	0.037234	2.995	
			26925.7381	0.265045	372.127	0.012308
39°50'	564108.7789	30.839025	6405.5656	0.037225	2.995	
			26941.6408	0.265173	372.528	0.012308
39°51'	565959.1203	30.839113	6407.7991	0.037216	2.994	
			26957.5512	0.265302	372.929	0.012308
39°52'	567809.4671	30.839202	6410.0320	0.037207	2.994	
			26973.4693	0.265430	373.330	0.012308

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°53'	569659.8193	30.839291	6412.2645	0.037198	2.994	
			26989.3951	0.265559	373.733	0.012308
39°54'	571510.1768	30.839380	6414.4963	0.037189	2.993	
			27005.3287	0.265688	374.135	0.012308
39°55'	573360.5396	30.839469	6416.7276	0.037180	2.993	
			27021.2699	0.265817	374.538	0.012308
39°56'	575210.9077	30.839558	6418.9584	0.037171	2.992	
			27037.2189	0.265946	374.942	0.012308
39°57'	577061.2812	30.839647	6421.1887	0.037162	2.992	
			27053.1757	0.266075	375.346	0.012308
39°58'	578911.6600	30.839736	6423.4183	0.037152	2.991	
			27069.1402	0.266205	375.751	0.012308
39°59'	580762.0441	30.839825	6425.6475	0.037143	2.991	
			27085.1125	0.266334	376.156	0.012308
40° 0'	582612.4336	30.839914	6427.8761	0.037134	2.990	
			27101.0926	0.266464	376.562	0.012308
40° 1'	584462.8284	30.840003	6430.1042	0.037125	2.990	
			27117.0804	0.266594	376.969	0.012308
40° 2'	586313.2286	30.840092	6432.3317	0.037116	2.990	
			27133.0760	0.266724	377.375	0.012308
40° 3'	588163.6341	30.840181	6434.5586	0.037107	2.989	
			27149.0795	0.266854	377.783	0.012308
40° 4'	590014.0449	30.840270	6436.7851	0.037098	2.989	
			27165.0907	0.266984	378.191	0.012308
40° 5'	591864.4611	30.840359	6439.0110	0.037089	2.988	
			27181.1097	0.267115	378.599	0.012308
40° 6'	593714.8826	30.840448	6441.2363	0.037080	2.988	
			27197.1366	0.267245	379.008	0.012308
40° 7'	595565.3095	30.840537	6443.4611	0.037071	2.987	
			27213.1713	0.267376	379.418	0.012307
40° 8'	597415.7417	30.840626	6445.6853	0.037062	2.987	
			27229.2139	0.267507	379.828	0.012307
40° 9'	599266.1792	30.840715	6447.9090	0.037053	2.986	
			27245.2643	0.267638	380.238	0.012307
40°10'	601116.6221	30.840804	6450.1322	0.037044	2.986	
			27261.3225	0.267769	380.649	0.012307
40°11'	602967.0703	30.840893	6452.3548	0.037034	2.986	
			27277.3887	0.267900	381.061	0.012307
40°12'	604817.5239	30.840982	6454.5769	0.037025	2.985	
			27293.4627	0.268031	381.473	0.012307
40°13'	606667.9828	30.841071	6456.7984	0.037016	2.985	
			27309.5445	0.268163	381.886	0.012307
40°14'	608518.4471	30.841160	6459.0194	0.037007	2.984	
			27325.6343	0.268295	382.299	0.012307

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°15'	610368.9167	30.841249	6461.2398	0.036998	2.984	
			27341.7320	0.268426	382.713	0.012307
40°16'	612219.3916	30.841338	6463.4597	0.036989	2.983	
			27357.8376	0.268558	383.127	0.012307
40°17'	614069.8719	30.841427	6465.6790	0.036980	2.983	
			27373.9511	0.268691	383.542	0.012307
40°18'	615920.3576	30.841517	6467.8978	0.036971	2.982	
			27390.0725	0.268823	383.957	0.012307
40°19'	617770.8486	30.841606	6470.1160	0.036962	2.982	
			27406.2019	0.268955	384.373	0.012307
40°20'	619621.3449	30.841695	6472.3337	0.036952	2.981	
			27422.3392	0.269088	384.789	0.012307
40°21'	621471.8466	30.841784	6474.5509	0.036943	2.981	
			27438.4845	0.269220	385.206	0.012307
40°22'	623322.3536	30.841873	6476.7675	0.036934	2.980	
			27454.6377	0.269353	385.624	0.012307
40°23'	625172.8660	30.841962	6478.9835	0.036925	2.980	
			27470.7989	0.269486	386.042	0.012307
40°24'	627023.3838	30.842052	6481.1990	0.036916	2.979	
			27486.9680	0.269619	386.460	0.012307
40°25'	628873.9069	30.842141	6483.4140	0.036907	2.979	
			27503.1452	0.269753	386.880	0.012307
40°26'	630724.4353	30.842230	6485.6284	0.036898	2.979	
			27519.3304	0.269886	387.299	0.012307
40°27'	632574.9691	30.842319	6487.8422	0.036888	2.978	
			27535.5235	0.270020	387.720	0.012307
40°28'	634425.5082	30.842408	6490.0555	0.036879	2.978	
			27551.7247	0.270153	388.140	0.012306
40°29'	636276.0527	30.842498	6492.2683	0.036870	2.977	
			27567.9339	0.270287	388.562	0.012306
40°30'	638126.6026	30.842587	6494.4805	0.036861	2.977	
			27584.1511	0.270421	388.984	0.012306
40°31'	639977.1578	30.842676	6496.6921	0.036852	2.976	
			27600.3764	0.270555	389.406	0.012306
40°32'	641827.7184	30.842765	6498.9032	0.036843	2.976	
			27616.6097	0.270690	389.829	0.012306
40°33'	643678.2843	30.842855	6501.1138	0.036833	2.975	
			27632.8511	0.270824	390.252	0.012306
40°34'	645528.8556	30.842944	6503.3238	0.036824	2.975	
			27649.1005	0.270959	390.677	0.012306
40°35'	647379.4322	30.843033	6505.5333	0.036815	2.974	
			27665.3580	0.271093	391.101	0.012306
40°36'	649230.0142	30.843122	6507.7422	0.036806	2.974	
			27681.6236	0.271228	391.526	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°37'	651080.6015	30.843212	6509.9505	0.036797	2.973	
			27697.8973	0.271363	391.952	0.012306
40°38'	652931.1942	30.843301	6512.1583	0.036788	2.973	
			27714.1791	0.271498	392.378	0.012306
40°39'	654781.7923	30.843390	6514.3656	0.036778	2.972	
			27730.4690	0.271634	392.805	0.012306
40°40'	656632.3957	30.843480	6516.5723	0.036769	2.972	
			27746.7670	0.271769	393.233	0.012306
40°41'	658483.0045	30.843569	6518.7784	0.036760	2.971	
			27763.0731	0.271905	393.661	0.012306
40°42'	660333.6186	30.843658	6520.9840	0.036751	2.971	
			27779.3874	0.272040	394.089	0.012306
40°43'	662184.2381	30.843748	6523.1891	0.036742	2.970	
			27795.7098	0.272176	394.518	0.012306
40°44'	664034.8629	30.843837	6525.3936	0.036732	2.970	
			27812.0404	0.272312	394.948	0.012306
40°45'	665885.4932	30.843926	6527.5975	0.036723	2.969	
			27828.3792	0.272449	395.378	0.012306
40°46'	667736.1287	30.844016	6529.8009	0.036714	2.969	
			27844.7261	0.272585	395.809	0.012306
40°47'	669586.7697	30.844105	6532.0038	0.036705	2.968	
			27861.0812	0.272721	396.241	0.012306
40°48'	671437.4160	30.844194	6534.2060	0.036696	2.968	
			27877.4445	0.272858	396.672	0.012306
40°49'	673288.0676	30.844284	6536.4078	0.036686	2.967	
			27893.8160	0.272995	397.105	0.012305
40°50'	675138.7247	30.844373	6538.6090	0.036677	2.967	
			27910.1956	0.273132	397.538	0.012305
40°51'	676989.3871	30.844463	6540.8096	0.036668	2.966	
			27926.5836	0.273269	397.972	0.012305
40°52'	678840.0548	30.844552	6543.0097	0.036659	2.966	
			27942.9797	0.273406	398.406	0.012305
40°53'	680690.7279	30.844641	6545.2092	0.036649	2.965	
			27959.3841	0.273544	398.841	0.012305
40°54'	682541.4064	30.844731	6547.4081	0.036640	2.965	
			27975.7967	0.273681	399.276	0.012305
40°55'	684392.0903	30.844820	6549.6065	0.036631	2.964	
			27992.2175	0.273819	399.712	0.012305
40°56'	686242.7795	30.844910	6551.8044	0.036622	2.964	
			28008.6467	0.273957	400.148	0.012305
40°57'	688093.4741	30.844999	6554.0017	0.036612	2.963	
			28025.0841	0.274095	400.586	0.012305
40°58'	689944.1740	30.845089	6556.1985	0.036603	2.963	
			28041.5297	0.274233	401.023	0.012305

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°59'	691794.8794	30.845178	6558.3947	0.036594	2.962	
			28057.9837	0.274371	401.461	0.012305
41° 0'	693645.5901	30.845268	6560.5903	0.036585	2.962	
			28074.4460	0.274510	401.900	0.012305
41° 1'	695496.3061	30.845357	6562.7854	0.036575	2.961	
			28090.9165	0.274648	402.340	0.012305
41° 2'	697347.0275	30.845447	6564.9799	0.036566	2.960	
			28107.3954	0.274787	402.780	0.012305
41° 3'	699197.7543	30.845536	6567.1739	0.036557	2.960	
			28123.8827	0.274926	403.220	0.012305
41° 4'	701048.4865	30.845626	6569.3673	0.036548	2.959	
			28140.3782	0.275065	403.661	0.012305
41° 5'	702899.2241	30.845715	6571.5602	0.036538	2.959	
			28156.8821	0.275204	404.103	0.012305
41° 6'	704749.9670	30.845805	6573.7525	0.036529	2.958	
			28173.3943	0.275343	404.545	0.012305
41° 7'	706600.7152	30.845894	6575.9442	0.036520	2.958	
			28189.9149	0.275483	404.988	0.012305
41° 8'	708451.4689	30.845984	6578.1354	0.036511	2.957	
			28206.4439	0.275623	405.432	0.012305
41° 9'	710302.2279	30.846073	6580.3260	0.036501	2.957	
			28222.9813	0.275762	405.876	0.012305
41°10'	712152.9923	30.846163	6582.5161	0.036492	2.956	
			28239.5270	0.275902	406.320	0.012304
41°11'	714003.7621	30.846252	6584.7056	0.036483	2.956	
			28256.0812	0.276043	406.766	0.012304
41°12'	715854.5372	30.846342	6586.8946	0.036473	2.955	
			28272.6437	0.276183	407.212	0.012304
41°13'	717705.3178	30.846432	6589.0830	0.036464	2.955	
			28289.2147	0.276323	407.658	0.012304
41°14'	719556.1037	30.846521	6591.2709	0.036455	2.954	
			28305.7941	0.276464	408.105	0.012304
41°15'	721406.8949	30.846611	6593.4582	0.036446	2.954	
			28322.3819	0.276605	408.553	0.012304
41°16'	723257.6916	30.846700	6595.6449	0.036436	2.953	
			28338.9782	0.276746	409.001	0.012304
41°17'	725108.4936	30.846790	6597.8311	0.036427	2.952	
			28355.5830	0.276887	409.450	0.012304
41°18'	726959.3010	30.846880	6600.0167	0.036418	2.952	
			28372.1962	0.277028	409.899	0.012304
41°19'	728810.1138	30.846969	6602.2017	0.036408	2.951	
			28388.8178	0.277169	410.349	0.012304
41°20'	730660.9319	30.847059	6604.3862	0.036399	2.951	
			28405.4480	0.277311	410.800	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°21'	732511.7554	30.847148	6606.5702	0.036390	2.950	
			28422.0866	0.277452	411.251	0.012304
41°22'	734362.5843	30.847238	6608.7536	0.036380	2.950	
			28438.7338	0.277594	411.703	0.012304
41°23'	736213.4186	30.847328	6610.9364	0.036371	2.949	
			28455.3894	0.277736	412.155	0.012304
41°24'	738064.2583	30.847417	6613.1187	0.036362	2.949	
			28472.0536	0.277878	412.608	0.012304
41°25'	739915.1033	30.847507	6615.3004	0.036352	2.948	
			28488.7263	0.278021	413.062	0.012304
41°26'	741765.9538	30.847597	6617.4815	0.036343	2.947	
			28505.4075	0.278163	413.516	0.012304
41°27'	743616.8096	30.847686	6619.6621	0.036334	2.947	
			28522.0973	0.278306	413.971	0.012304
41°28'	745467.6708	30.847776	6621.8421	0.036324	2.946	
			28538.7957	0.278449	414.426	0.012304
41°29'	747318.5373	30.847866	6624.0216	0.036315	2.946	
			28555.5026	0.278592	414.882	0.012304
41°30'	749169.4093	30.847955	6626.2005	0.036306	2.945	
			28572.2181	0.278735	415.339	0.012304
41°31'	751020.2866	30.848045	6628.3788	0.036296	2.945	
			28588.9422	0.278878	415.796	0.012303
41°32'	752871.1693	30.848135	6630.5566	0.036287	2.944	
			28605.6748	0.279021	416.254	0.012303
41°33'	754722.0574	30.848225	6632.7338	0.036278	2.944	
			28622.4161	0.279165	416.712	0.012303
41°34'	756572.9509	30.848314	6634.9105	0.036268	2.943	
			28639.1660	0.279309	417.171	0.012303
41°35'	758423.8497	30.848404	6637.0866	0.036259	2.942	
			28655.9245	0.279452	417.631	0.012303
41°36'	760274.7540	30.848494	6639.2621	0.036250	2.942	
			28672.6917	0.279597	418.091	0.012303
41°37'	762125.6636	30.848584	6641.4371	0.036240	2.941	
			28689.4675	0.279741	418.552	0.012303
41°38'	763976.5786	30.848673	6643.6115	0.036231	2.941	
			28706.2519	0.279885	419.014	0.012303
41°39'	765827.4990	30.848763	6645.7854	0.036221	2.940	
			28723.0450	0.280030	419.476	0.012303
41°40'	767678.4248	30.848853	6647.9587	0.036212	2.939	
			28739.8468	0.280174	419.939	0.012303
41°41'	769529.3560	30.848943	6650.1314	0.036203	2.939	
			28756.6572	0.280319	420.402	0.012303
41°42'	771380.2925	30.849032	6652.3035	0.036193	2.938	
			28773.4764	0.280464	420.866	0.012303

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°43'	773231.2345	30.849122	6654.4751	0.036184	2.938	
			28790.3042	0.280609	421.331	0.012303
41°44'	775082.1818	30.849212	6656.6462	0.036175	2.937	
			28807.1408	0.280755	421.796	0.012303
41°45'	776933.1345	30.849302	6658.8167	0.036165	2.937	
			28823.9861	0.280900	422.262	0.012303
41°46'	778784.0926	30.849392	6660.9866	0.036156	2.936	
			28840.8401	0.281046	422.728	0.012303
41°47'	780635.0561	30.849481	6663.1559	0.036146	2.935	
			28857.7028	0.281192	423.196	0.012303
41°48'	782486.0250	30.849571	6665.3247	0.036137	2.935	
			28874.5743	0.281338	423.663	0.012303
41°49'	784336.9993	30.849661	6667.4929	0.036128	2.934	
			28891.4546	0.281484	424.132	0.012303
41°50'	786187.9789	30.849751	6669.6606	0.036118	2.934	
			28908.3436	0.281630	424.601	0.012303
41°51'	788038.9640	30.849841	6671.8277	0.036109	2.933	
			28925.2414	0.281776	425.071	0.012303
41°52'	789889.9544	30.849931	6673.9942	0.036099	2.932	
			28942.1480	0.281923	425.541	0.012302
41°53'	791740.9503	30.850020	6676.1602	0.036090	2.932	
			28959.0633	0.282070	426.012	0.012302
41°54'	793591.9515	30.850110	6678.3256	0.036081	2.931	
			28975.9875	0.282217	426.483	0.012302
41°55'	795442.9581	30.850200	6680.4904	0.036071	2.931	
			28992.9205	0.282364	426.956	0.012302
41°56'	797293.9701	30.850290	6682.6547	0.036062	2.930	
			29009.8624	0.282511	427.428	0.012302
41°57'	799144.9875	30.850380	6684.8184	0.036052	2.929	
			29026.8130	0.282659	427.902	0.012302
41°58'	800996.0103	30.850470	6686.9815	0.036043	2.929	
			29043.7725	0.282806	428.376	0.012302
41°59'	802847.0385	30.850560	6689.1441	0.036033	2.928	
			29060.7409	0.282954	428.851	0.012302
42° 0'	804698.0720	30.850649	6691.3061	0.036024	2.928	
			29077.7182	0.283102	429.326	0.012302
42° 1'	806549.1110	30.850739	6693.4675	0.036015	2.927	
			29094.7043	0.283250	429.802	0.012302
42° 2'	808400.1554	30.850829	6695.6284	0.036005	2.926	
			29111.6993	0.283398	430.279	0.012302
42° 3'	810251.2051	30.850919	6697.7887	0.035996	2.926	
			29128.7031	0.283547	430.756	0.012302
42° 4'	812102.2603	30.851009	6699.9484	0.035986	2.925	
			29145.7159	0.283695	431.234	0.012302

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEVADA Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42° 5'	813953.3208	30.851099	6702.1076	0.035977	2.925	
			29162.7377	0.283844	431.713	0.012302
42° 6'	815804.3868	30.851189	6704.2662	0.035967	2.924	
			29179.7683	0.283993	432.192	0.012302
42° 7'	817655.4581	30.851279	6706.4242	0.035958	2.923	
			29196.8079	0.284142	432.672	0.012302
42° 8'	819506.5348	30.851369	6708.5817	0.035948	2.923	
			29213.8564	0.284291	433.153	0.012302
42° 9'	821357.6170	30.851459	6710.7386	0.035939	2.922	
			29230.9139	0.284441	433.634	0.012302
42°10'	823208.7045	30.851549	6712.8949	0.035929	2.922	
			29247.9803	0.284590	434.116	0.012302
42°11'	825059.7974	30.851639	6715.0507	0.035920	2.921	
			29265.0557	0.284740	434.598	0.012302
42°12'	826910.8957	30.851729	6717.2059	0.035910	2.920	
			29282.1401	0.284890	435.082	0.012302
42°13'	828761.9994	30.851819	6719.3605	0.035901	2.920	
			29299.2335	0.285040	435.565	0.012301
42°14'	830613.1085	30.851909	6721.5146	0.035892	2.919	
			29316.3359	0.285190	436.050	0.012301
42°15'	832464.2231	30.851998	6723.6681	0.035882	2.918	
			29333.4473	0.285341	436.535	0.012301
42°16'	834315.3430	30.852088	6725.8210	0.035873	2.918	
			29350.5677	0.285491	437.021	0.012301
42°17'	836166.4683	30.852178	6727.9734	0.035863	2.917	
			29367.6972	0.285642	437.507	0.012301
42°18'	838017.5990	30.852268	6730.1251	0.035854	2.917	
			29384.8357	0.285793	437.995	0.012301
42°19'	839868.7351	30.852358	6732.2763	0.035844	2.916	
			29401.9833	0.285944	438.482	0.012301
42°20'	841719.8766	30.852448	6734.4270	0.035835	2.915	
			29419.1399	0.286095	438.971	0.012301

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

TRANSVERSE MERCATOR PROJECTION

TABLES FOR NEW HAMPSHIRE COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW HAMPSHIRE
ZONE CODE: 2800

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 42°30' (latitude of grid origin)
λ_b = 71°40' (longitude of origin and Central Meridian, CM)
E_0 = 300000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999967 (scale along Central Meridian)
latitude range from ϕ_{min} = 42°30' to ϕ_{max} = 45°45'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  43°15'23".54600
  LONGITUDE:  72°12'43".75500

     p = 10^-4 Δλ  =  -0.19637550
TABULAR  (   I) =   83314.9496
   23.54600 sec =     726.6169
   SECOND DIFF  =      -0.0006
         (   I) =   84041.5659
TABULAR  (  II) =    3746.6389
   23.54600 sec =       0.0535
         (  II) =    3746.6926
TABULAR  ( III) =       1.6147
 N = (I) + (II)p^2 + (III)p^4 =  84186.053 m


TABULAR  (  IV) =  225574.7046
   23.54600 sec =     -24.1409
   SECOND DIFF  =       0.0023
         (  IV) =  225550.5660
TABULAR  (   V) =       5.5623
   23.54600 sec =      -0.0208
         (   V) =       5.5415
TABULAR  (  VI) =      -0.0300
 E' = (IV)p +(V)p^3 + (VI)p^5 = -44292.647 m
 E = E0 + E' =                 255707.353 m


TABULAR  ( XII) =    6851.8299
   23.54600 sec =       0.8314
         ( XII) =    6852.6613
TABULAR  (XIII) =       2.8786
C = (XII)p + (XIII)p^3 =    -1345".72


  q  = 10^-6 E'   =  -0.04429265
TABULAR  ( XVI) =     0.012297
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99999079
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.04429265$
$\phi' = 43°15'28''.22811$

TABULAR	(VII) =	2386.0158
28.22811 sec	=	0.6501
	(VII) =	2386.6659
TABULAR	(VIII) =	37.1776
28.22811 sec	=	0.0172
	(VIII) =	37.1947

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 43°15'23''.54600$

TABULAR	(IX) =	44331.2118
28.22811 sec	=	5.6893
SECOND DIFF	=	-0.0013
	(IX) =	44336.8997
TABULAR	(X) =	502.1691
28.22811 sec	=	0.2397
	(X) =	502.4088
TABULAR	(XI) =	10.7866
28.22811 sec	=	0.0090
	(XI) =	10.7955

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 72°12'43''.75500$

TABULAR	(XIV) =	30374.9922
28.22811 sec	=	8.3177
SECOND DIFF	=	-0.0012
	(XIV) =	30383.3088
TABULAR	(XV) =	466.8027
28.22811 sec	=	0.2482
	(XV) =	467.0509

$C = (XIV)q - (XV)q^3 = -1345''.72$

TABULAR (XVI) = 0.012297

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99999079$

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°30'	-0.0000	30.855406	3739.1926	0.003222	1.669
	228322.9773	-1.010784	7.9736	-0.000902	-0.030
42°31'	1851.3244	30.855496	3739.3859	0.003201	1.668
	228262.3303	-1.011108	7.9195	-0.000902	-0.030
42°32'	3702.6541	30.855586	3739.5780	0.003180	1.667
	228201.6638	-1.011431	7.8654	-0.000901	-0.030
42°33'	5553.9893	30.855676	3739.7688	0.003159	1.666
	228140.9779	-1.011755	7.8113	-0.000901	-0.030
42°34'	7405.3298	30.855766	3739.9583	0.003138	1.665
	228080.2726	-1.012078	7.7572	-0.000901	-0.030
42°35'	9256.6758	30.855856	3740.1466	0.003117	1.663
	228019.5479	-1.012402	7.7032	-0.000900	-0.030
42°36'	11108.0272	30.855946	3740.3336	0.003096	1.662
	227958.8038	-1.012725	7.6492	-0.000900	-0.030
42°37'	12959.3840	30.856036	3740.5193	0.003074	1.661
	227898.0403	-1.013048	7.5952	-0.000899	-0.030
42°38'	14810.7461	30.856127	3740.7038	0.003053	1.660
	227837.2575	-1.013371	7.5412	-0.000899	-0.030
42°39'	16662.1137	30.856217	3740.8870	0.003032	1.659
	227776.4552	-1.013694	7.4873	-0.000899	-0.030
42°40'	18513.4867	30.856307	3741.0689	0.003011	1.657
	227715.6335	-1.014017	7.4334	-0.000898	-0.030
42°41'	20364.8651	30.856397	3741.2496	0.002990	1.656
	227654.7925	-1.014340	7.3795	-0.000898	-0.030
42°42'	22216.2489	30.856487	3741.4290	0.002969	1.655
	227593.9321	-1.014663	7.3256	-0.000897	-0.030
42°43'	24067.6382	30.856577	3741.6071	0.002948	1.654
	227533.0523	-1.014986	7.2718	-0.000897	-0.030
42°44'	25919.0328	30.856667	3741.7840	0.002927	1.653
	227472.1532	-1.015308	7.2180	-0.000896	-0.030
42°45'	27770.4328	30.856757	3741.9596	0.002906	1.651
	227411.2347	-1.015631	7.1642	-0.000896	-0.030
42°46'	29621.8383	30.856847	3742.1340	0.002885	1.650
	227350.2969	-1.015953	7.1104	-0.000896	-0.030
42°47'	31473.2491	30.856938	3742.3071	0.002864	1.649
	227289.3397	-1.016275	7.0567	-0.000895	-0.030
42°48'	33324.6654	30.857028	3742.4789	0.002842	1.648
	227228.3632	-1.016598	7.0030	-0.000895	-0.030
42°49'	35176.0870	30.857118	3742.6494	0.002821	1.646
	227167.3673	-1.016920	6.9493	-0.000894	-0.030
42°50'	37027.5141	30.857208	3742.8187	0.002800	1.645
	227106.3521	-1.017242	6.8956	-0.000894	-0.030
42°51'	38878.9466	30.857298	3742.9867	0.002779	1.644
	227045.3176	-1.017564	6.8420	-0.000894	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°52'	40730.3845	30.857388	3743.1534	0.002758	1.643
	226984.2638	-1.017886	6.7884	-0.000893	-0.030
42°53'	42581.8278	30.857479	3743.3189	0.002737	1.642
	226923.1906	-1.018208	6.7348	-0.000893	-0.030
42°54'	44433.2765	30.857569	3743.4831	0.002716	1.640
	226862.0981	-1.018529	6.6812	-0.000892	-0.030
42°55'	46284.7306	30.857659	3743.6461	0.002695	1.639
	226800.9864	-1.018851	6.6277	-0.000892	-0.030
42°56'	48136.1902	30.857749	3743.8078	0.002674	1.638
	226739.8553	-1.019173	6.5742	-0.000891	-0.030
42°57'	49987.6551	30.857839	3743.9682	0.002652	1.637
	226678.7049	-1.019494	6.5207	-0.000891	-0.030
42°58'	51839.1255	30.857929	3744.1273	0.002631	1.636
	226617.5353	-1.019816	6.4672	-0.000891	-0.030
42°59'	53690.6012	30.858020	3744.2852	0.002610	1.634
	226556.3463	-1.020137	6.4138	-0.000890	-0.030
43° 0'	55542.0824	30.858110	3744.4418	0.002589	1.633
	226495.1381	-1.020458	6.3604	-0.000890	-0.030
43° 1'	57393.5690	30.858200	3744.5972	0.002568	1.632
	226433.9106	-1.020779	6.3070	-0.000889	-0.030
43° 2'	59245.0610	30.858290	3744.7512	0.002547	1.631
	226372.6639	-1.021101	6.2536	-0.000889	-0.030
43° 3'	61096.5584	30.858380	3744.9040	0.002526	1.629
	226311.3978	-1.021422	6.2003	-0.000888	-0.030
43° 4'	62948.0612	30.858471	3745.0556	0.002505	1.628
	226250.1125	-1.021742	6.1470	-0.000888	-0.030
43° 5'	64799.5695	30.858561	3745.2059	0.002483	1.627
	226188.8080	-1.022063	6.0937	-0.000888	-0.030
43° 6'	66651.0831	30.858651	3745.3549	0.002462	1.626
	226127.4842	-1.022384	6.0405	-0.000887	-0.030
43° 7'	68502.6022	30.858741	3745.5026	0.002441	1.625
	226066.1412	-1.022705	5.9872	-0.000887	-0.030
43° 8'	70354.1267	30.858832	3745.6491	0.002420	1.623
	226004.7789	-1.023025	5.9340	-0.000886	-0.030
43° 9'	72205.6566	30.858922	3745.7943	0.002399	1.622
	225943.3974	-1.023346	5.8808	-0.000886	-0.030
43°10'	74057.1919	30.859012	3745.9382	0.002378	1.621
	225881.9966	-1.023666	5.8277	-0.000886	-0.030
43°11'	75908.7326	30.859102	3746.0809	0.002357	1.620
	225820.5767	-1.023986	5.7745	-0.000885	-0.030
43°12'	77760.2787	30.859193	3746.2223	0.002336	1.618
	225759.1375	-1.024307	5.7214	-0.000885	-0.030
43°13'	79611.8303	30.859283	3746.3625	0.002315	1.617
	225697.6791	-1.024627	5.6684	-0.000884	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°14'	81463.3873	30.859373	3746.5013	0.002293	1.616
	225636.2015	-1.024947	5.6153	-0.000884	-0.030
43°15'	83314.9496	30.859463	3746.6389	0.002272	1.615
	225574.7046	-1.025267	5.5623	-0.000883	-0.030
43°16'	85166.5174	30.859554	3746.7753	0.002251	1.613
	225513.1886	-1.025587	5.5093	-0.000883	-0.030
43°17'	87018.0907	30.859644	3746.9103	0.002230	1.612
	225451.6534	-1.025907	5.4563	-0.000882	-0.030
43°18'	88869.6693	30.859734	3747.0441	0.002209	1.611
	225390.0990	-1.026226	5.4034	-0.000882	-0.030
43°19'	90721.2533	30.859824	3747.1767	0.002188	1.610
	225328.5254	-1.026546	5.3504	-0.000882	-0.030
43°20'	92572.8428	30.859915	3747.3079	0.002167	1.608
	225266.9327	-1.026866	5.2975	-0.000881	-0.030
43°21'	94424.4377	30.860005	3747.4379	0.002145	1.607
	225205.3207	-1.027185	5.2447	-0.000881	-0.030
43°22'	96276.0380	30.860095	3747.5667	0.002124	1.606
	225143.6896	-1.027504	5.1918	-0.000880	-0.030
43°23'	98127.6437	30.860185	3747.6941	0.002103	1.605
	225082.0394	-1.027824	5.1390	-0.000880	-0.030
43°24'	99979.2548	30.860276	3747.8203	0.002082	1.604
	225020.3699	-1.028143	5.0862	-0.000879	-0.030
43°25'	101830.8713	30.860366	3747.9452	0.002061	1.602
	224958.6814	-1.028462	5.0334	-0.000879	-0.030
43°26'	103682.4933	30.860456	3748.0689	0.002040	1.601
	224896.9736	-1.028781	4.9807	-0.000879	-0.030
43°27'	105534.1207	30.860547	3748.1913	0.002019	1.600
	224835.2468	-1.029100	4.9280	-0.000878	-0.030
43°28'	107385.7535	30.860637	3748.3124	0.001998	1.599
	224773.5008	-1.029419	4.8753	-0.000878	-0.030
43°29'	109237.3917	30.860727	3748.4322	0.001976	1.597
	224711.7356	-1.029738	4.8226	-0.000877	-0.030
43°30'	111089.0353	30.860818	3748.5508	0.001955	1.596
	224649.9514	-1.030057	4.7700	-0.000877	-0.030
43°31'	112940.6844	30.860908	3748.6681	0.001934	1.595
	224588.1480	-1.030375	4.7174	-0.000876	-0.030
43°32'	114792.3388	30.860998	3748.7842	0.001913	1.594
	224526.3255	-1.030694	4.6648	-0.000876	-0.030
43°33'	116643.9987	30.861088	3748.8990	0.001892	1.592
	224464.4838	-1.031012	4.6123	-0.000875	-0.030
43°34'	118495.6640	30.861179	3749.0125	0.001871	1.591
	224402.6231	-1.031330	4.5597	-0.000875	-0.030
43°35'	120347.3348	30.861269	3749.1247	0.001850	1.590
	224340.7433	-1.031649	4.5072	-0.000875	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°36'	122199.0109	30.861359	3749.2357	0.001828	1.589
	224278.8444	-1.031967	4.4547	-0.000874	-0.030
43°37'	124050.6925	30.861450	3749.3454	0.001807	1.587
	224216.9263	-1.032285	4.4023	-0.000874	-0.030
43°38'	125902.3795	30.861540	3749.4538	0.001786	1.586
	224154.9892	-1.032603	4.3499	-0.000873	-0.030
43°39'	127754.0719	30.861630	3749.5610	0.001765	1.585
	224093.0330	-1.032921	4.2975	-0.000873	-0.030
43°40'	129605.7697	30.861721	3749.6669	0.001744	1.584
	224031.0578	-1.033239	4.2451	-0.000872	-0.030
43°41'	131457.4729	30.861811	3749.7715	0.001723	1.582
	223969.0634	-1.033557	4.1928	-0.000872	-0.030
43°42'	133309.1816	30.861901	3749.8749	0.001701	1.581
	223907.0500	-1.033874	4.1404	-0.000872	-0.030
43°43'	135160.8957	30.861992	3749.9770	0.001680	1.580
	223845.0176	-1.034192	4.0882	-0.000871	-0.030
43°44'	137012.6152	30.862082	3750.0778	0.001659	1.579
	223782.9661	-1.034509	4.0359	-0.000871	-0.030
43°45'	138864.3401	30.862172	3750.1773	0.001638	1.577
	223720.8955	-1.034827	3.9837	-0.000870	-0.030
43°46'	140716.0705	30.862263	3750.2756	0.001617	1.576
	223658.8059	-1.035144	3.9314	-0.000870	-0.030
43°47'	142567.8062	30.862353	3750.3726	0.001596	1.575
	223596.6972	-1.035462	3.8793	-0.000869	-0.030
43°48'	144419.5474	30.862444	3750.4684	0.001575	1.574
	223534.5695	-1.035779	3.8271	-0.000869	-0.030
43°49'	146271.2941	30.862534	3750.5628	0.001553	1.572
	223472.4228	-1.036096	3.7750	-0.000868	-0.030
43°50'	148123.0461	30.862624	3750.6561	0.001532	1.571
	223410.2571	-1.036413	3.7229	-0.000868	-0.030
43°51'	149974.8035	30.862715	3750.7480	0.001511	1.570
	223348.0723	-1.036730	3.6708	-0.000867	-0.030
43°52'	151826.5664	30.862805	3750.8387	0.001490	1.569
	223285.8685	-1.037047	3.6187	-0.000867	-0.030
43°53'	153678.3347	30.862895	3750.9281	0.001469	1.567
	223223.6457	-1.037363	3.5667	-0.000867	-0.030
43°54'	155530.1084	30.862986	3751.0162	0.001448	1.566
	223161.4039	-1.037680	3.5147	-0.000866	-0.030
43°55'	157381.8876	30.863076	3751.1030	0.001427	1.565
	223099.1431	-1.037996	3.4628	-0.000866	-0.030
43°56'	159233.6722	30.863167	3751.1886	0.001405	1.564
	223036.8633	-1.038313	3.4108	-0.000865	-0.030
43°57'	161085.4622	30.863257	3751.2730	0.001384	1.562
	222974.5646	-1.038629	3.3589	-0.000865	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°58'	162937.2576	30.863347	3751.3560	0.001363	1.561
	222912.2468	-1.038946	3.3070	-0.000864	-0.030
43°59'	164789.0584	30.863438	3751.4378	0.001342	1.560
	222849.9101	-1.039262	3.2552	-0.000864	-0.030
44° 0'	166640.8647	30.863528	3751.5183	0.001321	1.559
	222787.5543	-1.039578	3.2033	-0.000863	-0.030
44° 1'	168492.6763	30.863618	3751.5976	0.001300	1.557
	222725.1797	-1.039894	3.1515	-0.000863	-0.030
44° 2'	170344.4935	30.863709	3751.6755	0.001278	1.556
	222662.7860	-1.040210	3.0998	-0.000862	-0.030
44° 3'	172196.3160	30.863799	3751.7522	0.001257	1.555
	222600.3734	-1.040526	3.0480	-0.000862	-0.030
44° 4'	174048.1439	30.863890	3751.8277	0.001236	1.553
	222537.9418	-1.040842	2.9963	-0.000862	-0.030
44° 5'	175899.9773	30.863980	3751.9018	0.001215	1.552
	222475.4913	-1.041157	2.9446	-0.000861	-0.030
44° 6'	177751.8161	30.864070	3751.9747	0.001194	1.551
	222413.0219	-1.041473	2.8929	-0.000861	-0.030
44° 7'	179603.6603	30.864161	3752.0464	0.001173	1.550
	222350.5335	-1.041789	2.8413	-0.000860	-0.030
44° 8'	181455.5100	30.864251	3752.1167	0.001151	1.548
	222288.0262	-1.042104	2.7897	-0.000860	-0.030
44° 9'	183307.3651	30.864342	3752.1858	0.001130	1.547
	222225.4999	-1.042419	2.7381	-0.000859	-0.030
44°10'	185159.2256	30.864432	3752.2536	0.001109	1.546
	222162.9548	-1.042735	2.6865	-0.000859	-0.030
44°11'	187011.0915	30.864522	3752.3202	0.001088	1.545
	222100.3907	-1.043050	2.6350	-0.000858	-0.030
44°12'	188862.9628	30.864613	3752.3854	0.001067	1.543
	222037.8077	-1.043365	2.5835	-0.000858	-0.030
44°13'	190714.8396	30.864703	3752.4494	0.001046	1.542
	221975.2058	-1.043680	2.5320	-0.000857	-0.030
44°14'	192566.7218	30.864794	3752.5122	0.001024	1.541
	221912.5850	-1.043995	2.4806	-0.000857	-0.030
44°15'	194418.6094	30.864884	3752.5736	0.001003	1.540
	221849.9453	-1.044310	2.4292	-0.000857	-0.030
44°16'	196270.5025	30.864975	3752.6338	0.000982	1.538
	221787.2867	-1.044625	2.3778	-0.000856	-0.030
44°17'	198122.4010	30.865065	3752.6928	0.000961	1.537
	221724.6092	-1.044939	2.3264	-0.000856	-0.030
44°18'	199974.3049	30.865155	3752.7504	0.000940	1.536
	221661.9129	-1.045254	2.2751	-0.000855	-0.030
44°19'	201826.2142	30.865246	3752.8068	0.000919	1.534
	221599.1976	-1.045568	2.2238	-0.000855	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°20'	203678.1289	30.865336	3752.8619	0.000897	1.533
	221536.4635	-1.045883	2.1725	-0.000854	-0.030
44°21'	205530.0491	30.865427	3752.9158	0.000876	1.532
	221473.7106	-1.046197	2.1212	-0.000854	-0.030
44°22'	207381.9747	30.865517	3752.9684	0.000855	1.531
	221410.9387	-1.046511	2.0700	-0.000853	-0.030
44°23'	209233.9057	30.865608	3753.0197	0.000834	1.529
	221348.1480	-1.046826	2.0188	-0.000853	-0.030
44°24'	211085.8422	30.865698	3753.0697	0.000813	1.528
	221285.3385	-1.047140	1.9677	-0.000852	-0.030
44°25'	212937.7841	30.865788	3753.1185	0.000792	1.527
	221222.5101	-1.047454	1.9165	-0.000852	-0.030
44°26'	214789.7314	30.865879	3753.1660	0.000770	1.525
	221159.6629	-1.047767	1.8654	-0.000851	-0.030
44°27'	216641.6841	30.865969	3753.2122	0.000749	1.524
	221096.7969	-1.048081	1.8143	-0.000851	-0.031
44°28'	218493.6423	30.866060	3753.2572	0.000728	1.523
	221033.9120	-1.048395	1.7633	-0.000850	-0.031
44°29'	220345.6058	30.866150	3753.3008	0.000707	1.522
	220971.0083	-1.048709	1.7122	-0.000850	-0.031
44°30'	222197.5749	30.866241	3753.3433	0.000686	1.520
	220908.0858	-1.049022	1.6612	-0.000850	-0.031
44°31'	224049.5493	30.866331	3753.3844	0.000665	1.519
	220845.1445	-1.049336	1.6103	-0.000849	-0.031
44°32'	225901.5292	30.866422	3753.4243	0.000643	1.518
	220782.1843	-1.049649	1.5593	-0.000849	-0.031
44°33'	227753.5145	30.866512	3753.4629	0.000622	1.517
	220719.2054	-1.049962	1.5084	-0.000848	-0.031
44°34'	229605.5052	30.866602	3753.5002	0.000601	1.515
	220656.2076	-1.050276	1.4575	-0.000848	-0.031
44°35'	231457.5013	30.866693	3753.5363	0.000580	1.514
	220593.1911	-1.050589	1.4067	-0.000847	-0.031
44°36'	233309.5029	30.866783	3753.5711	0.000559	1.513
	220530.1558	-1.050902	1.3559	-0.000847	-0.031
44°37'	235161.5099	30.866874	3753.6046	0.000538	1.511
	220467.1017	-1.051215	1.3051	-0.000846	-0.031
44°38'	237013.5223	30.866964	3753.6369	0.000516	1.510
	220404.0288	-1.051527	1.2543	-0.000846	-0.031
44°39'	238865.5402	30.867055	3753.6678	0.000495	1.509
	220340.9372	-1.051840	1.2035	-0.000845	-0.031
44°40'	240717.5634	30.867145	3753.6976	0.000474	1.508
	220277.8268	-1.052153	1.1528	-0.000845	-0.031
44°41'	242569.5922	30.867236	3753.7260	0.000453	1.506
	220214.6976	-1.052465	1.1021	-0.000844	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°42'	244421.6263	30.867326	3753.7532	0.000432	1.505
	220151.5497	-1.052778	1.0515	-0.000844	-0.031
44°43'	246273.6659	30.867416	3753.7791	0.000411	1.504
	220088.3830	-1.053090	1.0008	-0.000843	-0.031
44°44'	248125.7108	30.867507	3753.8037	0.000389	1.502
	220025.1976	-1.053403	0.9502	-0.000843	-0.031
44°45'	249977.7613	30.867597	3753.8271	0.000368	1.501
	219961.9934	-1.053715	0.8997	-0.000842	-0.031
44°46'	251829.8171	30.867688	3753.8491	0.000347	1.500
	219898.7705	-1.054027	0.8491	-0.000842	-0.031
44°47'	253681.8784	30.867778	3753.8700	0.000326	1.499
	219835.5289	-1.054339	0.7986	-0.000841	-0.031
44°48'	255533.9451	30.867869	3753.8895	0.000305	1.497
	219772.2685	-1.054651	0.7481	-0.000841	-0.031
44°49'	257386.0172	30.867959	3753.9078	0.000283	1.496
	219708.9894	-1.054963	0.6977	-0.000840	-0.031
44°50'	259238.0948	30.868050	3753.9248	0.000262	1.495
	219645.6917	-1.055275	0.6472	-0.000840	-0.031
44°51'	261090.1777	30.868140	3753.9405	0.000241	1.493
	219582.3752	-1.055587	0.5968	-0.000840	-0.031
44°52'	262942.2662	30.868231	3753.9550	0.000220	1.492
	219519.0400	-1.055898	0.5465	-0.000839	-0.031
44°53'	264794.3600	30.868321	3753.9682	0.000199	1.491
	219455.6861	-1.056210	0.4961	-0.000839	-0.031
44°54'	266646.4593	30.868412	3753.9801	0.000178	1.490
	219392.3135	-1.056521	0.4458	-0.000838	-0.031
44°55'	268498.5640	30.868502	3753.9908	0.000156	1.488
	219328.9222	-1.056833	0.3955	-0.000838	-0.031
44°56'	270350.6741	30.868593	3754.0002	0.000135	1.487
	219265.5123	-1.057144	0.3453	-0.000837	-0.031
44°57'	272202.7896	30.868683	3754.0083	0.000114	1.486
	219202.0836	-1.057455	0.2951	-0.000837	-0.031
44°58'	274054.9106	30.868773	3754.0151	0.000093	1.484
	219138.6363	-1.057766	0.2449	-0.000836	-0.031
44°59'	275907.0370	30.868864	3754.0207	0.000072	1.483
	219075.1704	-1.058077	0.1947	-0.000836	-0.031
45° 0'	277759.1689	30.868954	3754.0250	0.000051	1.482
	219011.6857	-1.058388	0.1446	-0.000835	-0.031
45° 1'	279611.3061	30.869045	3754.0280	0.000029	1.480
	218948.1825	-1.058699	0.0944	-0.000835	-0.031
45° 2'	281463.4488	30.869135	3754.0298	0.000008	1.479
	218884.6605	-1.059010	0.0444	-0.000834	-0.031
45° 3'	283315.5969	30.869226	3754.0303	-0.000013	1.478
	218821.1199	-1.059320	-0.0057	-0.000834	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45° 4'	285167.7505	30.869316	3754.0295	-0.000034	1.477
	218757.5607	-1.059631	-0.0557	-0.000833	-0.031
45° 5'	287019.9095	30.869407	3754.0275	-0.000055	1.475
	218693.9829	-1.059941	-0.1057	-0.000833	-0.031
45° 6'	288872.0739	30.869497	3754.0241	-0.000077	1.474
	218630.3864	-1.060252	-0.1557	-0.000832	-0.031
45° 7'	290724.2437	30.869588	3754.0195	-0.000098	1.473
	218566.7713	-1.060562	-0.2056	-0.000832	-0.031
45° 8'	292576.4190	30.869678	3754.0137	-0.000119	1.471
	218503.1375	-1.060872	-0.2555	-0.000831	-0.031
45° 9'	294428.5997	30.869769	3754.0066	-0.000140	1.470
	218439.4852	-1.061182	-0.3054	-0.000831	-0.031
45°10'	296280.7858	30.869859	3753.9982	-0.000161	1.469
	218375.8142	-1.061493	-0.3552	-0.000830	-0.031
45°11'	298132.9773	30.869950	3753.9885	-0.000182	1.467
	218312.1247	-1.061803	-0.4050	-0.000830	-0.031
45°12'	299985.1743	30.870040	3753.9775	-0.000204	1.466
	218248.4165	-1.062112	-0.4548	-0.000829	-0.031
45°13'	301837.3767	30.870131	3753.9653	-0.000225	1.465
	218184.6898	-1.062422	-0.5046	-0.000829	-0.031
45°14'	303689.5845	30.870221	3753.9518	-0.000246	1.464
	218120.9445	-1.062732	-0.5543	-0.000828	-0.031
45°15'	305541.7978	30.870311	3753.9371	-0.000267	1.462
	218057.1806	-1.063041	-0.6040	-0.000828	-0.031
45°16'	307394.0165	30.870402	3753.9210	-0.000288	1.461
	217993.3981	-1.063351	-0.6537	-0.000827	-0.031
45°17'	309246.2406	30.870492	3753.9038	-0.000309	1.460
	217929.5970	-1.063660	-0.7033	-0.000827	-0.031
45°18'	311098.4702	30.870583	3753.8852	-0.000331	1.458
	217865.7774	-1.063970	-0.7529	-0.000826	-0.031
45°19'	312950.7051	30.870673	3753.8653	-0.000352	1.457
	217801.9392	-1.064279	-0.8025	-0.000826	-0.031
45°20'	314802.9455	30.870764	3753.8442	-0.000373	1.456
	217738.0825	-1.064588	-0.8521	-0.000825	-0.031
45°21'	316655.1914	30.870854	3753.8219	-0.000394	1.454
	217674.2072	-1.064897	-0.9016	-0.000825	-0.031
45°22'	318507.4426	30.870945	3753.7982	-0.000415	1.453
	217610.3133	-1.065206	-0.9511	-0.000824	-0.031
45°23'	320359.6993	30.871035	3753.7733	-0.000437	1.452
	217546.4010	-1.065515	-1.0005	-0.000824	-0.031
45°24'	322211.9614	30.871126	3753.7471	-0.000458	1.451
	217482.4700	-1.065824	-1.0500	-0.000823	-0.031
45°25'	324064.2290	30.871216	3753.7196	-0.000479	1.449
	217418.5206	-1.066133	-1.0994	-0.000823	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW HAMPSHIRE Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45°26'	325916.5019	30.871307	3753.6909	-0.000500	1.448
	217354.5526	-1.066441	-1.1487	-0.000822	-0.031
45°27'	327768.7803	30.871397	3753.6609	-0.000521	1.447
	217290.5662	-1.066750	-1.1981	-0.000822	-0.031
45°28'	329621.0642	30.871488	3753.6296	-0.000542	1.445
	217226.5612	-1.067058	-1.2474	-0.000821	-0.031
45°29'	331473.3534	30.871578	3753.5971	-0.000564	1.444
	217162.5377	-1.067367	-1.2967	-0.000821	-0.031
45°30'	333325.6481	30.871669	3753.5633	-0.000585	1.443
	217098.4957	-1.067675	-1.3459	-0.000820	-0.031
45°31'	335177.9482	30.871759	3753.5282	-0.000606	1.441
	217034.4352	-1.067983	-1.3951	-0.000820	-0.031
45°32'	337030.2538	30.871850	3753.4918	-0.000627	1.440
	216970.3562	-1.068291	-1.4443	-0.000819	-0.031
45°33'	338882.5647	30.871940	3753.4542	-0.000648	1.439
	216906.2587	-1.068599	-1.4935	-0.000819	-0.031
45°34'	340734.8811	30.872030	3753.4153	-0.000669	1.437
	216842.1427	-1.068907	-1.5426	-0.000818	-0.031
45°35'	342587.2030	30.872121	3753.3751	-0.000691	1.436
	216778.0083	-1.069215	-1.5917	-0.000818	-0.031
45°36'	344439.5302	30.872211	3753.3337	-0.000712	1.435
	216713.8554	-1.069523	-1.6408	-0.000817	-0.031
45°37'	346291.8629	30.872302	3753.2910	-0.000733	1.434
	216649.6840	-1.069831	-1.6899	-0.000817	-0.031
45°38'	348144.2010	30.872392	3753.2470	-0.000754	1.432
	216585.4942	-1.070138	-1.7389	-0.000816	-0.031
45°39'	349996.5446	30.872483	3753.2017	-0.000775	1.431
	216521.2859	-1.070446	-1.7878	-0.000816	-0.031
45°40'	351848.8935	30.872573	3753.1552	-0.000797	1.430
	216457.0591	-1.070753	-1.8368	-0.000815	-0.031
45°41'	353701.2479	30.872664	3753.1074	-0.000818	1.428
	216392.8140	-1.071060	-1.8857	-0.000815	-0.031
45°42'	355553.6077	30.872754	3753.0584	-0.000839	1.427
	216328.5503	-1.071368	-1.9346	-0.000814	-0.031
45°43'	357405.9730	30.872845	3753.0080	-0.000860	1.426
	216264.2683	-1.071675	-1.9835	-0.000814	-0.031
45°44'	359258.3437	30.872935	3752.9564	-0.000881	1.424
	216199.9678	-1.071982	-2.0323	-0.000813	-0.031
45°45'	361110.7198	30.873026	3752.9036	-0.000902	1.423
	216135.6489	-1.072289	-2.0811	-0.000813	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°30'	-0.0000	30.855406	2324.5986	0.022481	35.583
	43797.6069	0.193943	479.9879	0.007957	9.970
42°31'	1851.3244	30.855496	2325.9475	0.022493	35.618
	43809.2435	0.194108	480.4653	0.007969	9.987
42°32'	3702.6541	30.855586	2327.2970	0.022505	35.652
	43820.8900	0.194274	480.9435	0.007980	10.005
42°33'	5553.9893	30.855676	2328.6473	0.022517	35.687
	43832.5464	0.194439	481.4223	0.007992	10.022
42°34'	7405.3298	30.855766	2329.9984	0.022529	35.721
	43844.2128	0.194605	481.9018	0.008003	10.039
42°35'	9256.6758	30.855856	2331.3501	0.022541	35.756
	43855.8891	0.194771	482.3820	0.008015	10.057
42°36'	11108.0272	30.855946	2332.7025	0.022553	35.791
	43867.5753	0.194937	482.8628	0.008026	10.074
42°37'	12959.3840	30.856036	2334.0557	0.022565	35.825
	43879.2716	0.195103	483.3444	0.008038	10.092
42°38'	14810.7461	30.856127	2335.4096	0.022577	35.860
	43890.9778	0.195270	483.8267	0.008049	10.110
42°39'	16662.1137	30.856217	2336.7642	0.022589	35.895
	43902.6939	0.195436	484.3096	0.008061	10.127
42°40'	18513.4867	30.856307	2338.1195	0.022601	35.930
	43914.4201	0.195603	484.7933	0.008073	10.145
42°41'	20364.8651	30.856397	2339.4756	0.022613	35.965
	43926.1563	0.195770	485.2776	0.008084	10.162
42°42'	22216.2489	30.856487	2340.8323	0.022625	36.000
	43937.9025	0.195937	485.7627	0.008096	10.180
42°43'	24067.6382	30.856577	2342.1898	0.022637	36.035
	43949.6587	0.196104	486.2484	0.008107	10.198
42°44'	25919.0328	30.856667	2343.5480	0.022649	36.070
	43961.4250	0.196272	486.7349	0.008119	10.216
42°45'	27770.4328	30.856757	2344.9070	0.022661	36.105
	43973.2013	0.196439	487.2220	0.008131	10.234
42°46'	29621.8383	30.856847	2346.2666	0.022673	36.140
	43984.9877	0.196607	487.7099	0.008143	10.251
42°47'	31473.2491	30.856938	2347.6270	0.022685	36.175
	43996.7841	0.196775	488.1985	0.008154	10.269
42°48'	33324.6654	30.857028	2348.9881	0.022697	36.210
	44008.5906	0.196943	488.6877	0.008166	10.287
42°49'	35176.0870	30.857118	2350.3500	0.022709	36.246
	44020.4072	0.197111	489.1777	0.008178	10.305
42°50'	37027.5141	30.857208	2351.7125	0.022722	36.281
	44032.2338	0.197280	489.6684	0.008190	10.323
42°51'	38878.9466	30.857298	2353.0758	0.022734	36.316
	44044.0706	0.197448	490.1598	0.008202	10.341

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°52'	40730.3845	30.857388	2354.4398	0.022746	36.352
	44055.9175	0.197617	490.6519	0.008213	10.359
42°53'	42581.8278	30.857479	2355.8046	0.022758	36.387
	44067.7745	0.197786	491.1447	0.008225	10.378
42°54'	44433.2765	30.857569	2357.1701	0.022770	36.422
	44079.6417	0.197955	491.6382	0.008237	10.396
42°55'	46284.7306	30.857659	2358.5363	0.022783	36.458
	44091.5190	0.198124	492.1324	0.008249	10.414
42°56'	48136.1902	30.857749	2359.9033	0.022795	36.493
	44103.4065	0.198294	492.6274	0.008261	10.432
42°57'	49987.6551	30.857839	2361.2710	0.022807	36.529
	44115.3041	0.198463	493.1230	0.008273	10.451
42°58'	51839.1255	30.857929	2362.6394	0.022819	36.565
	44127.2119	0.198633	493.6194	0.008285	10.469
42°59'	53690.6012	30.858020	2364.0085	0.022832	36.600
	44139.1299	0.198803	494.1165	0.008297	10.487
43° 0'	55542.0824	30.858110	2365.3784	0.022844	36.636
	44151.0581	0.198973	494.6144	0.008309	10.506
43° 1'	57393.5690	30.858200	2366.7491	0.022856	36.672
	44162.9965	0.199144	495.1129	0.008321	10.524
43° 2'	59245.0610	30.858290	2368.1204	0.022868	36.708
	44174.9451	0.199314	495.6122	0.008333	10.543
43° 3'	61096.5584	30.858380	2369.4925	0.022881	36.744
	44186.9040	0.199485	496.1122	0.008345	10.561
43° 4'	62948.0612	30.858471	2370.8654	0.022893	36.780
	44198.8730	0.199656	496.6129	0.008357	10.580
43° 5'	64799.5695	30.858561	2372.2390	0.022906	36.816
	44210.8524	0.199827	497.1143	0.008370	10.598
43° 6'	66651.0831	30.858651	2373.6133	0.022918	36.852
	44222.8420	0.199998	497.6165	0.008382	10.617
43° 7'	68502.6022	30.858741	2374.9884	0.022930	36.888
	44234.8418	0.200169	498.1194	0.008394	10.636
43° 8'	70354.1267	30.858832	2376.3642	0.022943	36.924
	44246.8520	0.200341	498.6231	0.008406	10.654
43° 9'	72205.6566	30.858922	2377.7408	0.022955	36.960
	44258.8724	0.200512	499.1274	0.008418	10.673
43°10'	74057.1919	30.859012	2379.1181	0.022968	36.996
	44270.9032	0.200684	499.6325	0.008431	10.692
43°11'	75908.7326	30.859102	2380.4961	0.022980	37.032
	44282.9442	0.200856	500.1384	0.008443	10.711
43°12'	77760.2787	30.859193	2381.8749	0.022992	37.068
	44294.9956	0.201028	500.6449	0.008455	10.730
43°13'	79611.8303	30.859283	2383.2545	0.023005	37.105
	44307.0573	0.201201	501.1522	0.008467	10.749

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°14'	81463.3873	30.859373	2384.6347	0.023017	37.141
	44319.1294	0.201373	501.6603	0.008480	10.768
43°15'	83314.9496	30.859463	2386.0158	0.023030	37.178
	44331.2118	0.201546	502.1691	0.008492	10.787
43°16'	85166.5174	30.859554	2387.3976	0.023042	37.214
	44343.3045	0.201719	502.6786	0.008504	10.806
43°17'	87018.0907	30.859644	2388.7801	0.023055	37.251
	44355.4077	0.201892	503.1889	0.008517	10.825
43°18'	88869.6693	30.859734	2390.1634	0.023067	37.287
	44367.5212	0.202065	503.6999	0.008529	10.844
43°19'	90721.2533	30.859824	2391.5475	0.023080	37.324
	44379.6451	0.202239	504.2116	0.008542	10.863
43°20'	92572.8428	30.859915	2392.9323	0.023093	37.360
	44391.7795	0.202413	504.7241	0.008554	10.882
43°21'	94424.4377	30.860005	2394.3178	0.023105	37.397
	44403.9242	0.202586	505.2374	0.008567	10.901
43°22'	96276.0380	30.860095	2395.7041	0.023118	37.434
	44416.0794	0.202760	505.7514	0.008579	10.921
43°23'	98127.6437	30.860185	2397.0912	0.023130	37.471
	44428.2450	0.202935	506.2661	0.008592	10.940
43°24'	99979.2548	30.860276	2398.4790	0.023143	37.507
	44440.4211	0.203109	506.7816	0.008604	10.960
43°25'	101830.8713	30.860366	2399.8676	0.023156	37.544
	44452.6076	0.203283	507.2979	0.008617	10.979
43°26'	103682.4933	30.860456	2401.2569	0.023168	37.581
	44464.8047	0.203458	507.8149	0.008629	10.998
43°27'	105534.1207	30.860547	2402.6470	0.023181	37.618
	44477.0121	0.203633	508.3327	0.008642	11.018
43°28'	107385.7535	30.860637	2404.0379	0.023194	37.655
	44489.2301	0.203808	508.8512	0.008655	11.037
43°29'	109237.3917	30.860727	2405.4295	0.023206	37.692
	44501.4586	0.203983	509.3705	0.008667	11.057
43°30'	111089.0353	30.860818	2406.8219	0.023219	37.729
	44513.6976	0.204159	509.8905	0.008680	11.077
43°31'	112940.6844	30.860908	2408.2150	0.023232	37.767
	44525.9471	0.204334	510.4113	0.008693	11.096
43°32'	114792.3388	30.860998	2409.6090	0.023245	37.804
	44538.2072	0.204510	510.9329	0.008705	11.116
43°33'	116643.9987	30.861088	2411.0036	0.023257	37.841
	44550.4778	0.204686	511.4552	0.008718	11.136
43°34'	118495.6640	30.861179	2412.3991	0.023270	37.878
	44562.7589	0.204862	511.9783	0.008731	11.156
43°35'	120347.3348	30.861269	2413.7953	0.023283	37.916
	44575.0507	0.205038	512.5022	0.008744	11.175

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°36'	122199.0109	30.861359	2415.1922	0.023296	37.953
	44587.3530	0.205215	513.0268	0.008757	11.195
43°37'	124050.6925	30.861450	2416.5900	0.023308	37.990
	44599.6659	0.205392	513.5522	0.008769	11.215
43°38'	125902.3795	30.861540	2417.9885	0.023321	38.028
	44611.9894	0.205569	514.0784	0.008782	11.235
43°39'	127754.0719	30.861630	2419.3878	0.023334	38.065
	44624.3235	0.205746	514.6053	0.008795	11.255
43°40'	129605.7697	30.861721	2420.7878	0.023347	38.103
	44636.6682	0.205923	515.1330	0.008808	11.275
43°41'	131457.4729	30.861811	2422.1886	0.023360	38.141
	44649.0236	0.206100	515.6615	0.008821	11.295
43°42'	133309.1816	30.861901	2423.5902	0.023373	38.178
	44661.3896	0.206278	516.1908	0.008834	11.316
43°43'	135160.8957	30.861992	2424.9926	0.023386	38.216
	44673.7663	0.206456	516.7208	0.008847	11.336
43°44'	137012.6152	30.862082	2426.3958	0.023399	38.254
	44686.1536	0.206634	517.2516	0.008860	11.356
43°45'	138864.3401	30.862172	2427.7997	0.023412	38.292
	44698.5516	0.206812	517.7832	0.008873	11.376
43°46'	140716.0705	30.862263	2429.2044	0.023425	38.330
	44710.9603	0.206990	518.3156	0.008886	11.397
43°47'	142567.8062	30.862353	2430.6098	0.023437	38.368
	44723.3797	0.207169	518.8488	0.008899	11.417
43°48'	144419.5474	30.862444	2432.0161	0.023450	38.405
	44735.8099	0.207347	519.3828	0.008912	11.437
43°49'	146271.2941	30.862534	2433.4231	0.023463	38.444
	44748.2507	0.207526	519.9175	0.008925	11.458
43°50'	148123.0461	30.862624	2434.8309	0.023476	38.482
	44760.7023	0.207705	520.4530	0.008939	11.478
43°51'	149974.8035	30.862715	2436.2395	0.023489	38.520
	44773.1646	0.207884	520.9893	0.008952	11.499
43°52'	151826.5664	30.862805	2437.6489	0.023503	38.558
	44785.6377	0.208064	521.5264	0.008965	11.519
43°53'	153678.3347	30.862895	2439.0590	0.023516	38.596
	44798.1215	0.208244	522.0643	0.008978	11.540
43°54'	155530.1084	30.862986	2440.4700	0.023529	38.634
	44810.6161	0.208423	522.6030	0.008991	11.561
43°55'	157381.8876	30.863076	2441.8817	0.023542	38.673
	44823.1215	0.208603	523.1425	0.009005	11.581
43°56'	159233.6722	30.863167	2443.2942	0.023555	38.711
	44835.6377	0.208784	523.6828	0.009018	11.602
43°57'	161085.4622	30.863257	2444.7075	0.023568	38.749
	44848.1647	0.208964	524.2238	0.009031	11.623

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°58'	162937.2576	30.863347	2446.1215	0.023581	38.788
	44860.7026	0.209145	524.7657	0.009045	11.644
43°59'	164789.0584	30.863438	2447.5364	0.023594	38.826
	44873.2512	0.209325	525.3084	0.009058	11.665
44° 0'	166640.8647	30.863528	2448.9521	0.023607	38.865
	44885.8107	0.209506	525.8519	0.009071	11.686
44° 1'	168492.6763	30.863618	2450.3685	0.023621	38.904
	44898.3811	0.209687	526.3961	0.009085	11.707
44° 2'	170344.4935	30.863709	2451.7857	0.023634	38.942
	44910.9624	0.209869	526.9412	0.009098	11.728
44° 3'	172196.3160	30.863799	2453.2038	0.023647	38.981
	44923.5545	0.210050	527.4871	0.009112	11.749
44° 4'	174048.1439	30.863890	2454.6226	0.023660	39.020
	44936.1575	0.210232	528.0338	0.009125	11.770
44° 5'	175899.9773	30.863980	2456.0422	0.023673	39.059
	44948.7714	0.210414	528.5813	0.009139	11.791
44° 6'	177751.8161	30.864070	2457.4626	0.023687	39.097
	44961.3962	0.210596	529.1296	0.009152	11.812
44° 7'	179603.6603	30.864161	2458.8838	0.023700	39.136
	44974.0320	0.210778	529.6788	0.009166	11.834
44° 8'	181455.5100	30.864251	2460.3058	0.023713	39.175
	44986.6786	0.210960	530.2287	0.009179	11.855
44° 9'	183307.3651	30.864342	2461.7286	0.023727	39.214
	44999.3363	0.211143	530.7795	0.009193	11.876
44°10'	185159.2256	30.864432	2463.1522	0.023740	39.253
	45012.0049	0.211326	531.3310	0.009206	11.898
44°11'	187011.0915	30.864522	2464.5766	0.023753	39.292
	45024.6844	0.211509	531.8834	0.009220	11.919
44°12'	188862.9628	30.864613	2466.0018	0.023766	39.332
	45037.3750	0.211692	532.4366	0.009234	11.941
44°13'	190714.8396	30.864703	2467.4278	0.023780	39.371
	45050.0765	0.211876	532.9907	0.009248	11.962
44°14'	192566.7218	30.864794	2468.8545	0.023793	39.410
	45062.7890	0.212059	533.5455	0.009261	11.984
44°15'	194418.6094	30.864884	2470.2821	0.023807	39.449
	45075.5126	0.212243	534.1012	0.009275	12.005
44°16'	196270.5025	30.864975	2471.7105	0.023820	39.489
	45088.2472	0.212427	534.6577	0.009289	12.027
44°17'	198122.4010	30.865065	2473.1397	0.023833	39.528
	45100.9928	0.212611	535.2150	0.009303	12.049
44°18'	199974.3049	30.865155	2474.5697	0.023847	39.568
	45113.7495	0.212796	535.7732	0.009316	12.071
44°19'	201826.2142	30.865246	2476.0006	0.023860	39.607
	45126.5172	0.212980	536.3321	0.009330	12.093

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°20'	203678.1289	30.865336	2477.4322	0.023874	39.647
	45139.2960	0.213165	536.8920	0.009344	12.114
44°21'	205530.0491	30.865427	2478.8646	0.023887	39.686
	45152.0859	0.213350	537.4526	0.009358	12.136
44°22'	207381.9747	30.865517	2480.2978	0.023901	39.726
	45164.8869	0.213535	538.0141	0.009372	12.158
44°23'	209233.9057	30.865608	2481.7319	0.023914	39.766
	45177.6990	0.213720	538.5764	0.009386	12.180
44°24'	211085.8422	30.865698	2483.1667	0.023928	39.806
	45190.5222	0.213906	539.1396	0.009400	12.202
44°25'	212937.7841	30.865788	2484.6024	0.023941	39.845
	45203.3565	0.214092	539.7036	0.009414	12.225
44°26'	214789.7314	30.865879	2486.0389	0.023955	39.885
	45216.2020	0.214277	540.2684	0.009428	12.247
44°27'	216641.6841	30.865969	2487.4762	0.023969	39.925
	45229.0587	0.214464	540.8341	0.009442	12.269
44°28'	218493.6423	30.866060	2488.9143	0.023982	39.965
	45241.9265	0.214650	541.4006	0.009456	12.291
44°29'	220345.6058	30.866150	2490.3532	0.023996	40.005
	45254.8055	0.214836	541.9679	0.009470	12.314
44°30'	222197.5749	30.866241	2491.7930	0.024009	40.045
	45267.6957	0.215023	542.5362	0.009484	12.336
44°31'	224049.5493	30.866331	2493.2335	0.024023	40.086
	45280.5971	0.215210	543.1052	0.009498	12.358
44°32'	225901.5292	30.866422	2494.6749	0.024037	40.126
	45293.5097	0.215397	543.6751	0.009513	12.381
44°33'	227753.5145	30.866512	2496.1171	0.024050	40.166
	45306.4335	0.215584	544.2459	0.009527	12.403
44°34'	229605.5052	30.866602	2497.5601	0.024064	40.206
	45319.3686	0.215772	544.8175	0.009541	12.426
44°35'	231457.5013	30.866693	2499.0040	0.024078	40.247
	45332.3149	0.215960	545.3900	0.009555	12.448
44°36'	233309.5029	30.866783	2500.4486	0.024091	40.287
	45345.2725	0.216148	545.9633	0.009570	12.471
44°37'	235161.5099	30.866874	2501.8941	0.024105	40.328
	45358.2413	0.216336	546.5375	0.009584	12.494
44°38'	237013.5223	30.866964	2503.3404	0.024119	40.368
	45371.2215	0.216524	547.1125	0.009598	12.517
44°39'	238865.5402	30.867055	2504.7876	0.024133	40.409
	45384.2129	0.216712	547.6884	0.009613	12.539
44°40'	240717.5634	30.867145	2506.2355	0.024146	40.449
	45397.2156	0.216901	548.2651	0.009627	12.562
44°41'	242569.5922	30.867236	2507.6843	0.024160	40.490
	45410.2297	0.217090	548.8428	0.009641	12.585

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°42'	244421.6263	30.867326	2509.1339	0.024174	40.531
	45423.2551	0.217279	549.4212	0.009656	12.608
44°43'	246273.6659	30.867416	2510.5844	0.024188	40.571
	45436.2918	0.217468	550.0006	0.009670	12.631
44°44'	248125.7108	30.867507	2512.0357	0.024202	40.612
	45449.3399	0.217658	550.5808	0.009685	12.654
44°45'	249977.7613	30.867597	2513.4878	0.024216	40.653
	45462.3994	0.217848	551.1619	0.009699	12.677
44°46'	251829.8171	30.867688	2514.9407	0.024230	40.694
	45475.4703	0.218037	551.7439	0.009714	12.701
44°47'	253681.8784	30.867778	2516.3945	0.024243	40.735
	45488.5525	0.218228	552.3267	0.009729	12.724
44°48'	255533.9451	30.867869	2517.8491	0.024257	40.776
	45501.6462	0.218418	552.9104	0.009743	12.747
44°49'	257386.0172	30.867959	2519.3045	0.024271	40.817
	45514.7512	0.218608	553.4950	0.009758	12.770
44°50'	259238.0948	30.868050	2520.7608	0.024285	40.858
	45527.8677	0.218799	554.0805	0.009772	12.794
44°51'	261090.1777	30.868140	2522.2179	0.024299	40.900
	45540.9957	0.218990	554.6668	0.009787	12.817
44°52'	262942.2662	30.868231	2523.6759	0.024313	40.941
	45554.1351	0.219181	555.2540	0.009802	12.841
44°53'	264794.3600	30.868321	2525.1346	0.024327	40.982
	45567.2859	0.219372	555.8421	0.009817	12.864
44°54'	266646.4593	30.868412	2526.5943	0.024341	41.024
	45580.4483	0.219564	556.4311	0.009831	12.888
44°55'	268498.5640	30.868502	2528.0547	0.024355	41.065
	45593.6221	0.219756	557.0210	0.009846	12.911
44°56'	270350.6741	30.868593	2529.5161	0.024369	41.107
	45606.8075	0.219948	557.6118	0.009861	12.935
44°57'	272202.7896	30.868683	2530.9782	0.024383	41.148
	45620.0043	0.220140	558.2034	0.009876	12.959
44°58'	274054.9106	30.868773	2532.4412	0.024397	41.190
	45633.2127	0.220332	558.7960	0.009891	12.983
44°59'	275907.0370	30.868864	2533.9051	0.024411	41.231
	45646.4326	0.220525	559.3894	0.009906	13.006
45° 0'	277759.1689	30.868954	2535.3697	0.024426	41.273
	45659.6641	0.220717	559.9838	0.009920	13.030
45° 1'	279611.3061	30.869045	2536.8353	0.024440	41.315
	45672.9071	0.220910	560.5790	0.009935	13.054
45° 2'	281463.4488	30.869135	2538.3017	0.024454	41.357
	45686.1617	0.221103	561.1751	0.009950	13.078
45° 3'	283315.5969	30.869226	2539.7689	0.024468	41.399
	45699.4279	0.221297	561.7721	0.009965	13.102

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45° 4'	285167.7505	30.869316	2541.2370	0.024482	41.440
	45712.7057	0.221490	562.3701	0.009980	13.126
45° 5'	287019.9095	30.869407	2542.7059	0.024496	41.482
	45725.9952	0.221684	562.9689	0.009996	13.151
45° 6'	288872.0739	30.869497	2544.1757	0.024511	41.525
	45739.2962	0.221878	563.5686	0.010011	13.175
45° 7'	290724.2437	30.869588	2545.6463	0.024525	41.567
	45752.6089	0.222072	564.1692	0.010026	13.199
45° 8'	292576.4190	30.869678	2547.1178	0.024539	41.609
	45765.9332	0.222267	564.7708	0.010041	13.223
45° 9'	294428.5997	30.869769	2548.5901	0.024553	41.651
	45779.2692	0.222461	565.3732	0.010056	13.248
45°10'	296280.7858	30.869859	2550.0633	0.024568	41.693
	45792.6169	0.222656	565.9766	0.010071	13.272
45°11'	298132.9773	30.869950	2551.5374	0.024582	41.736
	45805.9763	0.222851	566.5809	0.010087	13.297
45°12'	299985.1743	30.870040	2553.0123	0.024596	41.778
	45819.3473	0.223046	567.1861	0.010102	13.321
45°13'	301837.3767	30.870131	2554.4881	0.024611	41.820
	45832.7301	0.223242	567.7922	0.010117	13.346
45°14'	303689.5845	30.870221	2555.9647	0.024625	41.863
	45846.1246	0.223437	568.3992	0.010132	13.371
45°15'	305541.7978	30.870311	2557.4422	0.024639	41.905
	45859.5309	0.223633	569.0071	0.010148	13.395
45°16'	307394.0165	30.870402	2558.9206	0.024654	41.948
	45872.9489	0.223829	569.6160	0.010163	13.420
45°17'	309246.2406	30.870492	2560.3998	0.024668	41.991
	45886.3786	0.224026	570.2258	0.010179	13.445
45°18'	311098.4702	30.870583	2561.8799	0.024682	42.033
	45899.8202	0.224222	570.8365	0.010194	13.470
45°19'	312950.7051	30.870673	2563.3608	0.024697	42.076
	45913.2735	0.224419	571.4481	0.010209	13.495
45°20'	314802.9455	30.870764	2564.8426	0.024711	42.119
	45926.7386	0.224616	572.0607	0.010225	13.520
45°21'	316655.1914	30.870854	2566.3253	0.024726	42.162
	45940.2156	0.224813	572.6742	0.010240	13.545
45°22'	318507.4426	30.870945	2567.8088	0.024740	42.205
	45953.7043	0.225010	573.2886	0.010256	13.570
45°23'	320359.6993	30.871035	2569.2932	0.024755	42.248
	45967.2050	0.225208	573.9040	0.010272	13.595
45°24'	322211.9614	30.871126	2570.7785	0.024769	42.291
	45980.7174	0.225406	574.5203	0.010287	13.620
45°25'	324064.2290	30.871216	2572.2647	0.024784	42.334
	45994.2418	0.225604	575.1375	0.010303	13.645

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

NEW HAMPSHIRE Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45°26'	325916.5019	30.871307	2573.7517	0.024798	42.377
	46007.7780	0.225802	575.7557	0.010318	13.671
45°27'	327768.7803	30.871397	2575.2396	0.024813	42.421
	46021.3261	0.226000	576.3748	0.010334	13.696
45°28'	329621.0642	30.871488	2576.7284	0.024827	42.464
	46034.8861	0.226199	576.9948	0.010350	13.722
45°29'	331473.3534	30.871578	2578.2180	0.024842	42.507
	46048.4580	0.226398	577.6158	0.010366	13.747
45°30'	333325.6481	30.871669	2579.7086	0.024857	42.551
	46062.0419	0.226597	578.2377	0.010381	13.773
45°31'	335177.9482	30.871759	2581.2000	0.024871	42.594
	46075.6377	0.226796	578.8606	0.010397	13.798
45°32'	337030.2538	30.871850	2582.6922	0.024886	42.638
	46089.2454	0.226995	579.4845	0.010413	13.824
45°33'	338882.5647	30.871940	2584.1854	0.024901	42.681
	46102.8652	0.227195	580.1092	0.010429	13.850
45°34'	340734.8811	30.872030	2585.6794	0.024915	42.725
	46116.4969	0.227395	580.7350	0.010445	13.875
45°35'	342587.2030	30.872121	2587.1744	0.024930	42.769
	46130.1406	0.227595	581.3617	0.010461	13.901
45°36'	344439.5302	30.872211	2588.6702	0.024945	42.812
	46143.7963	0.227796	581.9893	0.010477	13.927
45°37'	346291.8629	30.872302	2590.1668	0.024959	42.856
	46157.4640	0.227996	582.6179	0.010493	13.953
45°38'	348144.2010	30.872392	2591.6644	0.024974	42.900
	46171.1438	0.228197	583.2475	0.010509	13.979
45°39'	349996.5446	30.872483	2593.1629	0.024989	42.944
	46184.8356	0.228398	583.8780	0.010525	14.005
45°40'	351848.8935	30.872573	2594.6622	0.025004	42.988
	46198.5395	0.228599	584.5095	0.010541	14.031
45°41'	353701.2479	30.872664	2596.1624	0.025019	43.032
	46212.2555	0.228801	585.1419	0.010557	14.058
45°42'	355553.6077	30.872754	2597.6636	0.025033	43.076
	46225.9835	0.229002	585.7754	0.010573	14.084
45°43'	357405.9730	30.872845	2599.1656	0.025048	43.120
	46239.7236	0.229204	586.4097	0.010589	14.110
45°44'	359258.3437	30.872935	2600.6685	0.025063	43.165
	46253.4759	0.229406	587.0451	0.010605	14.137
45°45'	361110.7198	30.873026	2602.1722	0.025078	43.209
	46267.2403	0.229609	587.6814	0.010622	14.163

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°30'	-0.0000	30.855406	6755.9021	0.035739	2.909	
			29589.2343	0.287598	443.804	0.012299
42°31'	1851.3244	30.855496	6758.0464	0.035730	2.908	
			29606.4902	0.287751	444.299	0.012299
42°32'	3702.6541	30.855586	6760.1902	0.035720	2.908	
			29623.7553	0.287904	444.796	0.012299
42°33'	5553.9893	30.855676	6762.3335	0.035711	2.907	
			29641.0295	0.288058	445.293	0.012299
42°34'	7405.3298	30.855766	6764.4761	0.035701	2.906	
			29658.3130	0.288211	445.791	0.012299
42°35'	9256.6758	30.855856	6766.6182	0.035692	2.906	
			29675.6057	0.288365	446.289	0.012299
42°36'	11108.0272	30.855946	6768.7597	0.035682	2.905	
			29692.9076	0.288519	446.789	0.012299
42°37'	12959.3840	30.856036	6770.9006	0.035673	2.904	
			29710.2187	0.288673	447.288	0.012299
42°38'	14810.7461	30.856127	6773.0410	0.035663	2.904	
			29727.5391	0.288828	447.789	0.012299
42°39'	16662.1137	30.856217	6775.1808	0.035654	2.903	
			29744.8688	0.288982	448.290	0.012299
42°40'	18513.4867	30.856307	6777.3200	0.035644	2.902	
			29762.2077	0.289137	448.792	0.012299
42°41'	20364.8651	30.856397	6779.4586	0.035634	2.902	
			29779.5560	0.289292	449.295	0.012298
42°42'	22216.2489	30.856487	6781.5967	0.035625	2.901	
			29796.9135	0.289447	449.798	0.012298
42°43'	24067.6382	30.856577	6783.7342	0.035615	2.900	
			29814.2803	0.289602	450.302	0.012298
42°44'	25919.0328	30.856667	6785.8711	0.035606	2.900	
			29831.6564	0.289757	450.807	0.012298
42°45'	27770.4328	30.856757	6788.0075	0.035596	2.899	
			29849.0418	0.289913	451.312	0.012298
42°46'	29621.8383	30.856847	6790.1432	0.035587	2.898	
			29866.4366	0.290069	451.818	0.012298
42°47'	31473.2491	30.856938	6792.2784	0.035577	2.898	
			29883.8407	0.290224	452.325	0.012298
42°48'	33324.6654	30.857028	6794.4130	0.035567	2.897	
			29901.2542	0.290381	452.832	0.012298
42°49'	35176.0870	30.857118	6796.5471	0.035558	2.896	
			29918.6770	0.290537	453.341	0.012298
42°50'	37027.5141	30.857208	6798.6806	0.035548	2.896	
			29936.1092	0.290693	453.849	0.012298
42°51'	38878.9466	30.857298	6800.8135	0.035539	2.895	
			29953.5508	0.290850	454.359	0.012298

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°52'	40730.3845	30.857388	6802.9458	0.035529	2.894	
			29971.0018	0.291007	454.869	0.012298
42°53'	42581.8278	30.857479	6805.0775	0.035519	2.894	
			29988.4622	0.291164	455.380	0.012298
42°54'	44433.2765	30.857569	6807.2087	0.035510	2.893	
			30005.9320	0.291321	455.892	0.012298
42°55'	46284.7306	30.857659	6809.3393	0.035500	2.892	
			30023.4112	0.291478	456.404	0.012298
42°56'	48136.1902	30.857749	6811.4693	0.035491	2.892	
			30040.8999	0.291635	456.917	0.012298
42°57'	49987.6551	30.857839	6813.5987	0.035481	2.891	
			30058.3980	0.291793	457.431	0.012298
42°58'	51839.1255	30.857929	6815.7276	0.035471	2.890	
			30075.9056	0.291951	457.946	0.012298
42°59'	53690.6012	30.858020	6817.8559	0.035462	2.890	
			30093.4227	0.292109	458.461	0.012298
43° 0'	55542.0824	30.858110	6819.9836	0.035452	2.889	
			30110.9492	0.292267	458.977	0.012298
43° 1'	57393.5690	30.858200	6822.1107	0.035443	2.888	
			30128.4852	0.292425	459.494	0.012298
43° 2'	59245.0610	30.858290	6824.2373	0.035433	2.888	
			30146.0308	0.292584	460.011	0.012297
43° 3'	61096.5584	30.858380	6826.3633	0.035423	2.887	
			30163.5858	0.292743	460.529	0.012297
43° 4'	62948.0612	30.858471	6828.4887	0.035414	2.886	
			30181.1504	0.292902	461.048	0.012297
43° 5'	64799.5695	30.858561	6830.6135	0.035404	2.886	
			30198.7245	0.293061	461.567	0.012297
43° 6'	66651.0831	30.858651	6832.7377	0.035394	2.885	
			30216.3081	0.293220	462.088	0.012297
43° 7'	68502.6022	30.858741	6834.8614	0.035385	2.884	
			30233.9013	0.293379	462.609	0.012297
43° 8'	70354.1267	30.858832	6836.9845	0.035375	2.884	
			30251.5041	0.293539	463.130	0.012297
43° 9'	72205.6566	30.858922	6839.1070	0.035366	2.883	
			30269.1164	0.293699	463.653	0.012297
43°10'	74057.1919	30.859012	6841.2289	0.035356	2.882	
			30286.7384	0.293859	464.176	0.012297
43°11'	75908.7326	30.859102	6843.3503	0.035346	2.881	
			30304.3699	0.294019	464.700	0.012297
43°12'	77760.2787	30.859193	6845.4711	0.035337	2.881	
			30322.0110	0.294179	465.225	0.012297
43°13'	79611.8303	30.859283	6847.5913	0.035327	2.880	
			30339.6618	0.294340	465.750	0.012297

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°14'	81463.3873	30.859373	6849.7109	0.035317	2.879	
			30357.3222	0.294501	466.276	0.012297
43°15'	83314.9496	30.859463	6851.8299	0.035308	2.879	
			30374.9922	0.294662	466.803	0.012297
43°16'	85166.5174	30.859554	6853.9484	0.035298	2.878	
			30392.6719	0.294823	467.330	0.012297
43°17'	87018.0907	30.859644	6856.0662	0.035288	2.877	
			30410.3613	0.294984	467.859	0.012297
43°18'	88869.6693	30.859734	6858.1835	0.035279	2.877	
			30428.0603	0.295145	468.388	0.012297
43°19'	90721.2533	30.859824	6860.3002	0.035269	2.876	
			30445.7690	0.295307	468.917	0.012297
43°20'	92572.8428	30.859915	6862.4164	0.035259	2.875	
			30463.4875	0.295469	469.448	0.012297
43°21'	94424.4377	30.860005	6864.5319	0.035250	2.874	
			30481.2156	0.295631	469.979	0.012297
43°22'	96276.0380	30.860095	6866.6469	0.035240	2.874	
			30498.9534	0.295793	470.511	0.012297
43°23'	98127.6437	30.860185	6868.7613	0.035230	2.873	
			30516.7010	0.295955	471.044	0.012296
43°24'	99979.2548	30.860276	6870.8751	0.035220	2.872	
			30534.4583	0.296118	471.577	0.012296
43°25'	101830.8713	30.860366	6872.9883	0.035211	2.872	
			30552.2254	0.296281	472.111	0.012296
43°26'	103682.4933	30.860456	6875.1010	0.035201	2.871	
			30570.0022	0.296443	472.646	0.012296
43°27'	105534.1207	30.860547	6877.2131	0.035191	2.870	
			30587.7888	0.296607	473.182	0.012296
43°28'	107385.7535	30.860637	6879.3245	0.035182	2.869	
			30605.5852	0.296770	473.718	0.012296
43°29'	109237.3917	30.860727	6881.4354	0.035172	2.869	
			30623.3914	0.296933	474.256	0.012296
43°30'	111089.0353	30.860818	6883.5458	0.035162	2.868	
			30641.2074	0.297097	474.794	0.012296
43°31'	112940.6844	30.860908	6885.6555	0.035153	2.867	
			30659.0332	0.297261	475.332	0.012296
43°32'	114792.3388	30.860998	6887.7646	0.035143	2.867	
			30676.8689	0.297425	475.872	0.012296
43°33'	116643.9987	30.861088	6889.8732	0.035133	2.866	
			30694.7144	0.297589	476.412	0.012296
43°34'	118495.6640	30.861179	6891.9812	0.035123	2.865	
			30712.5697	0.297753	476.953	0.012296
43°35'	120347.3348	30.861269	6894.0886	0.035114	2.864	
			30730.4349	0.297918	477.495	0.012296

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°36'	122199.0109	30.861359	6896.1954	0.035104	2.864	
			30748.3100	0.298083	478.037	0.012296
43°37'	124050.6925	30.861450	6898.3017	0.035094	2.863	
			30766.1950	0.298248	478.580	0.012296
43°38'	125902.3795	30.861540	6900.4073	0.035085	2.862	
			30784.0899	0.298413	479.124	0.012296
43°39'	127754.0719	30.861630	6902.5124	0.035075	2.861	
			30801.9946	0.298578	479.669	0.012296
43°40'	129605.7697	30.861721	6904.6169	0.035065	2.861	
			30819.9093	0.298744	480.215	0.012296
43°41'	131457.4729	30.861811	6906.7208	0.035055	2.860	
			30837.8340	0.298910	480.761	0.012296
43°42'	133309.1816	30.861901	6908.8241	0.035046	2.859	
			30855.7685	0.299075	481.308	0.012296
43°43'	135160.8957	30.861992	6910.9268	0.035036	2.858	
			30873.7131	0.299242	481.856	0.012296
43°44'	137012.6152	30.862082	6913.0290	0.035026	2.858	
			30891.6676	0.299408	482.405	0.012295
43°45'	138864.3401	30.862172	6915.1306	0.035016	2.857	
			30909.6320	0.299574	482.954	0.012295
43°46'	140716.0705	30.862263	6917.2315	0.035007	2.856	
			30927.6065	0.299741	483.504	0.012295
43°47'	142567.8062	30.862353	6919.3319	0.034997	2.856	
			30945.5910	0.299908	484.055	0.012295
43°48'	144419.5474	30.862444	6921.4317	0.034987	2.855	
			30963.5854	0.300075	484.607	0.012295
43°49'	146271.2941	30.862534	6923.5310	0.034977	2.854	
			30981.5899	0.300242	485.160	0.012295
43°50'	148123.0461	30.862624	6925.6296	0.034968	2.853	
			30999.6044	0.300410	485.713	0.012295
43°51'	149974.8035	30.862715	6927.7276	0.034958	2.853	
			31017.6290	0.300577	486.267	0.012295
43°52'	151826.5664	30.862805	6929.8251	0.034948	2.852	
			31035.6637	0.300745	486.822	0.012295
43°53'	153678.3347	30.862895	6931.9220	0.034938	2.851	
			31053.7084	0.300913	487.377	0.012295
43°54'	155530.1084	30.862986	6934.0183	0.034928	2.850	
			31071.7631	0.301081	487.934	0.012295
43°55'	157381.8876	30.863076	6936.1140	0.034919	2.850	
			31089.8280	0.301250	488.491	0.012295
43°56'	159233.6722	30.863167	6938.2091	0.034909	2.849	
			31107.9030	0.301418	489.049	0.012295
43°57'	161085.4622	30.863257	6940.3036	0.034899	2.848	
			31125.9881	0.301587	489.608	0.012295

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°58'	162937.2576	30.863347	6942.3976	0.034889	2.847	
			31144.0833	0.301756	490.167	0.012295
43°59'	164789.0584	30.863438	6944.4909	0.034879	2.847	
			31162.1886	0.301925	490.728	0.012295
44° 0'	166640.8647	30.863528	6946.5837	0.034870	2.846	
			31180.3041	0.302094	491.289	0.012295
44° 1'	168492.6763	30.863618	6948.6759	0.034860	2.845	
			31198.4298	0.302264	491.851	0.012295
44° 2'	170344.4935	30.863709	6950.7675	0.034850	2.844	
			31216.5657	0.302434	492.414	0.012295
44° 3'	172196.3160	30.863799	6952.8585	0.034840	2.843	
			31234.7117	0.302604	492.977	0.012295
44° 4'	174048.1439	30.863890	6954.9489	0.034830	2.843	
			31252.8679	0.302774	493.542	0.012295
44° 5'	175899.9773	30.863980	6957.0387	0.034821	2.842	
			31271.0343	0.302944	494.107	0.012294
44° 6'	177751.8161	30.864070	6959.1280	0.034811	2.841	
			31289.2110	0.303115	494.673	0.012294
44° 7'	179603.6603	30.864161	6961.2166	0.034801	2.840	
			31307.3979	0.303285	495.240	0.012294
44° 8'	181455.5100	30.864251	6963.3047	0.034791	2.840	
			31325.5950	0.303456	495.807	0.012294
44° 9'	183307.3651	30.864342	6965.3921	0.034781	2.839	
			31343.8024	0.303627	496.376	0.012294
44°10'	185159.2256	30.864432	6967.4790	0.034772	2.838	
			31362.0200	0.303799	496.945	0.012294
44°11'	187011.0915	30.864522	6969.5653	0.034762	2.837	
			31380.2479	0.303970	497.515	0.012294
44°12'	188862.9628	30.864613	6971.6510	0.034752	2.837	
			31398.4861	0.304142	498.086	0.012294
44°13'	190714.8396	30.864703	6973.7361	0.034742	2.836	
			31416.7347	0.304314	498.657	0.012294
44°14'	192566.7218	30.864794	6975.8207	0.034732	2.835	
			31434.9935	0.304486	499.230	0.012294
44°15'	194418.6094	30.864884	6977.9046	0.034722	2.834	
			31453.2627	0.304658	499.803	0.012294
44°16'	196270.5025	30.864975	6979.9879	0.034713	2.833	
			31471.5421	0.304831	500.377	0.012294
44°17'	198122.4010	30.865065	6982.0707	0.034703	2.833	
			31489.8320	0.305003	500.952	0.012294
44°18'	199974.3049	30.865155	6984.1529	0.034693	2.832	
			31508.1322	0.305176	501.528	0.012294
44°19'	201826.2142	30.865246	6986.2344	0.034683	2.831	
			31526.4428	0.305349	502.104	0.012294

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°20'	203678.1289	30.865336	6988.3154	0.034673	2.830	
			31544.7637	0.305523	502.682	0.012294
44°21'	205530.0491	30.865427	6990.3958	0.034663	2.830	
			31563.0951	0.305696	503.260	0.012294
44°22'	207381.9747	30.865517	6992.4756	0.034653	2.829	
			31581.4369	0.305870	503.839	0.012294
44°23'	209233.9057	30.865608	6994.5548	0.034644	2.828	
			31599.7891	0.306044	504.419	0.012294
44°24'	211085.8422	30.865698	6996.6334	0.034634	2.827	
			31618.1517	0.306218	505.000	0.012294
44°25'	212937.7841	30.865788	6998.7114	0.034624	2.826	
			31636.5248	0.306392	505.581	0.012294
44°26'	214789.7314	30.865879	7000.7889	0.034614	2.826	
			31654.9083	0.306567	506.164	0.012293
44°27'	216641.6841	30.865969	7002.8657	0.034604	2.825	
			31673.3023	0.306741	506.747	0.012293
44°28'	218493.6423	30.866060	7004.9419	0.034594	2.824	
			31691.7068	0.306916	507.331	0.012293
44°29'	220345.6058	30.866150	7007.0176	0.034584	2.823	
			31710.1218	0.307091	507.916	0.012293
44°30'	222197.5749	30.866241	7009.0926	0.034574	2.822	
			31728.5473	0.307267	508.501	0.012293
44°31'	224049.5493	30.866331	7011.1671	0.034565	2.822	
			31746.9833	0.307442	509.088	0.012293
44°32'	225901.5292	30.866422	7013.2410	0.034555	2.821	
			31765.4298	0.307618	509.675	0.012293
44°33'	227753.5145	30.866512	7015.3143	0.034545	2.820	
			31783.8869	0.307794	510.264	0.012293
44°34'	229605.5052	30.866602	7017.3869	0.034535	2.819	
			31802.3545	0.307970	510.853	0.012293
44°35'	231457.5013	30.866693	7019.4590	0.034525	2.818	
			31820.8327	0.308146	511.443	0.012293
44°36'	233309.5029	30.866783	7021.5305	0.034515	2.818	
			31839.3215	0.308323	512.033	0.012293
44°37'	235161.5099	30.866874	7023.6014	0.034505	2.817	
			31857.8209	0.308500	512.625	0.012293
44°38'	237013.5223	30.866964	7025.6717	0.034495	2.816	
			31876.3308	0.308676	513.217	0.012293
44°39'	238865.5402	30.867055	7027.7415	0.034485	2.815	
			31894.8514	0.308854	513.811	0.012293
44°40'	240717.5634	30.867145	7029.8106	0.034475	2.814	
			31913.3826	0.309031	514.405	0.012293
44°41'	242569.5922	30.867236	7031.8791	0.034465	2.814	
			31931.9245	0.309209	515.000	0.012293

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°42'	244421.6263	30.867326	7033.9470	0.034456	2.813	
			31950.4770	0.309386	515.596	0.012293
44°43'	246273.6659	30.867416	7036.0144	0.034446	2.812	
			31969.0402	0.309564	516.193	0.012293
44°44'	248125.7108	30.867507	7038.0811	0.034436	2.811	
			31987.6141	0.309742	516.790	0.012293
44°45'	249977.7613	30.867597	7040.1472	0.034426	2.810	
			32006.1986	0.309921	517.389	0.012293
44°46'	251829.8171	30.867688	7042.2128	0.034416	2.810	
			32024.7938	0.310099	517.988	0.012292
44°47'	253681.8784	30.867778	7044.2777	0.034406	2.809	
			32043.3998	0.310278	518.588	0.012292
44°48'	255533.9451	30.867869	7046.3421	0.034396	2.808	
			32062.0165	0.310457	519.189	0.012292
44°49'	257386.0172	30.867959	7048.4059	0.034386	2.807	
			32080.6439	0.310636	519.791	0.012292
44°50'	259238.0948	30.868050	7050.4690	0.034376	2.806	
			32099.2821	0.310816	520.394	0.012292
44°51'	261090.1777	30.868140	7052.5316	0.034366	2.806	
			32117.9311	0.310995	520.998	0.012292
44°52'	262942.2662	30.868231	7054.5936	0.034356	2.805	
			32136.5908	0.311175	521.603	0.012292
44°53'	264794.3600	30.868321	7056.6549	0.034346	2.804	
			32155.2613	0.311355	522.208	0.012292
44°54'	266646.4593	30.868412	7058.7157	0.034336	2.803	
			32173.9426	0.311536	522.814	0.012292
44°55'	268498.5640	30.868502	7060.7759	0.034326	2.802	
			32192.6348	0.311716	523.422	0.012292
44°56'	270350.6741	30.868593	7062.8355	0.034316	2.801	
			32211.3377	0.311897	524.030	0.012292
44°57'	272202.7896	30.868683	7064.8944	0.034306	2.801	
			32230.0515	0.312078	524.639	0.012292
44°58'	274054.9106	30.868773	7066.9528	0.034296	2.800	
			32248.7762	0.312259	525.248	0.012292
44°59'	275907.0370	30.868864	7069.0106	0.034286	2.799	
			32267.5117	0.312440	525.859	0.012292
45° 0'	277759.1689	30.868954	7071.0678	0.034277	2.798	
			32286.2581	0.312621	526.471	0.012292
45° 1'	279611.3061	30.869045	7073.1244	0.034267	2.797	
			32305.0154	0.312803	527.083	0.012292
45° 2'	281463.4488	30.869135	7075.1804	0.034257	2.796	
			32323.7836	0.312985	527.697	0.012292
45° 3'	283315.5969	30.869226	7077.2358	0.034247	2.796	
			32342.5627	0.313167	528.311	0.012292

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45° 4'	285167.7505	30.869316	7079.2906	0.034237	2.795	
			32361.3527	0.313350	528.926	0.012292
45° 5'	287019.9095	30.869407	7081.3448	0.034227	2.794	
			32380.1537	0.313532	529.542	0.012292
45° 6'	288872.0739	30.869497	7083.3984	0.034217	2.793	
			32398.9656	0.313715	530.159	0.012292
45° 7'	290724.2437	30.869588	7085.4514	0.034207	2.792	
			32417.7885	0.313898	530.777	0.012291
45° 8'	292576.4190	30.869678	7087.5038	0.034197	2.791	
			32436.6224	0.314081	531.396	0.012291
45° 9'	294428.5997	30.869769	7089.5556	0.034187	2.791	
			32455.4673	0.314265	532.016	0.012291
45°10'	296280.7858	30.869859	7091.6068	0.034177	2.790	
			32474.3232	0.314448	532.636	0.012291
45°11'	298132.9773	30.869950	7093.6574	0.034167	2.789	
			32493.1901	0.314632	533.258	0.012291
45°12'	299985.1743	30.870040	7095.7074	0.034157	2.788	
			32512.0680	0.314816	533.880	0.012291
45°13'	301837.3767	30.870131	7097.7568	0.034147	2.787	
			32530.9570	0.315001	534.504	0.012291
45°14'	303689.5845	30.870221	7099.8056	0.034137	2.786	
			32549.8570	0.315185	535.128	0.012291
45°15'	305541.7978	30.870311	7101.8538	0.034127	2.786	
			32568.7681	0.315370	535.753	0.012291
45°16'	307394.0165	30.870402	7103.9014	0.034117	2.785	
			32587.6903	0.315555	536.379	0.012291
45°17'	309246.2406	30.870492	7105.9483	0.034107	2.784	
			32606.6236	0.315740	537.006	0.012291
45°18'	311098.4702	30.870583	7107.9947	0.034097	2.783	
			32625.5680	0.315925	537.634	0.012291
45°19'	312950.7051	30.870673	7110.0405	0.034086	2.782	
			32644.5235	0.316111	538.263	0.012291
45°20'	314802.9455	30.870764	7112.0857	0.034076	2.781	
			32663.4902	0.316297	538.892	0.012291
45°21'	316655.1914	30.870854	7114.1303	0.034066	2.780	
			32682.4680	0.316483	539.523	0.012291
45°22'	318507.4426	30.870945	7116.1743	0.034056	2.780	
			32701.4570	0.316669	540.155	0.012291
45°23'	320359.6993	30.871035	7118.2177	0.034046	2.779	
			32720.4571	0.316855	540.787	0.012291
45°24'	322211.9614	30.871126	7120.2605	0.034036	2.778	
			32739.4684	0.317042	541.421	0.012291
45°25'	324064.2290	30.871216	7122.3026	0.034026	2.777	
			32758.4909	0.317229	542.055	0.012291

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW HAMPSHIRE Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45°26'	325916.5019	30.871307	7124.3442	0.034016	2.776	
			32777.5247	0.317416	542.690	0.012291
45°27'	327768.7803	30.871397	7126.3852	0.034006	2.775	
			32796.5697	0.317603	543.327	0.012291
45°28'	329621.0642	30.871488	7128.4256	0.033996	2.774	
			32815.6259	0.317791	543.964	0.012290
45°29'	331473.3534	30.871578	7130.4653	0.033986	2.774	
			32834.6933	0.317979	544.602	0.012290
45°30'	333325.6481	30.871669	7132.5045	0.033976	2.773	
			32853.7721	0.318167	545.241	0.012290
45°31'	335177.9482	30.871759	7134.5431	0.033966	2.772	
			32872.8621	0.318355	545.881	0.012290
45°32'	337030.2538	30.871850	7136.5810	0.033956	2.771	
			32891.9634	0.318544	546.522	0.012290
45°33'	338882.5647	30.871940	7138.6184	0.033946	2.770	
			32911.0760	0.318732	547.164	0.012290
45°34'	340734.8811	30.872030	7140.6551	0.033936	2.769	
			32930.1999	0.318921	547.806	0.012290
45°35'	342587.2030	30.872121	7142.6913	0.033926	2.768	
			32949.3352	0.319110	548.450	0.012290
45°36'	344439.5302	30.872211	7144.7268	0.033916	2.767	
			32968.4818	0.319300	549.095	0.012290
45°37'	346291.8629	30.872302	7146.7617	0.033906	2.767	
			32987.6398	0.319489	549.741	0.012290
45°38'	348144.2010	30.872392	7148.7961	0.033895	2.766	
			33006.8091	0.319679	550.387	0.012290
45°39'	349996.5446	30.872483	7150.8298	0.033885	2.765	
			33025.9898	0.319869	551.035	0.012290
45°40'	351848.8935	30.872573	7152.8629	0.033875	2.764	
			33045.1820	0.320059	551.683	0.012290
45°41'	353701.2479	30.872664	7154.8954	0.033865	2.763	
			33064.3855	0.320250	552.333	0.012290
45°42'	355553.6077	30.872754	7156.9273	0.033855	2.762	
			33083.6005	0.320440	552.983	0.012290
45°43'	357405.9730	30.872845	7158.9586	0.033845	2.761	
			33102.8269	0.320631	553.635	0.012290
45°44'	359258.3437	30.872935	7160.9893	0.033835	2.760	
			33122.0648	0.320822	554.287	0.012290
45°45'	361110.7198	30.873026	7163.0194	0.033825	2.760	
			33141.3141	0.321014	554.940	0.012290

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

TRANSVERSE MERCATOR PROJECTION

TABLES FOR NEW JERSEY COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW JERSEY
ZONE CODE: 2900

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 38°50' (latitude of grid origin)
λ_b = 74°30' (longitude of origin and Central Meridian, CM)
E_0 = 150000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from φ_{min} = 38°50' to φ_{max} = 41°30'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 39°15'23".54600
LONGITUDE: 75°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 46252.1566
23.54600 sec = 726.0626
SECOND DIFF = -0.0006
(I) = 46978.2185
TABULAR (II) = 3677.1857
23.54600 sec = 0.1719
(II) = 3677.3578
TABULAR (III) = 1.8870
$N = (I) + (II)p^2 + (III)p^4$ = 47219.933 m

TABULAR (IV) = 239755.8456
23.54600 sec = -22.2755
SECOND DIFF = 0.0024
(IV) = 239733.5725
TABULAR (V) = 18.9527
23.54600 sec = -0.0229
(V) = 18.9298
TABULAR (VI) = -0.0265
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -61462.133 m
$E = E_0 + E'$ = 88537.867 m

TABULAR (XII) = 6327.0533
23.54600 sec = 0.8839
(XII) = 6327.9372
TABULAR (XIII) = 3.0088
$C = (XII)p + (XIII)p^3$ = -1622".38

$q = 10^{-6} E'$ = -0.06146213
TABULAR (XVI) = 0.012310
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99994650

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06146213$

$\varphi' = 39°15'31''.38475$

```
TABULAR  ( VII) =    2074.5355
   31.38475 sec =       0.6402
         ( VII) =    2075.1757
TABULAR  (VIII) =      29.5988
   31.38475 sec =       0.0143
         (VIII) =      29.6131
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 39°15'23''.54600$

```
TABULAR  (  IX) =   41709.0978
   31.38475 sec =       5.1665
   SECOND DIFF  =      -0.0010
         (  IX) =   41714.2632
TABULAR  (   X) =     398.7199
   31.38475 sec =       0.1903
         (   X) =     398.9102
TABULAR  (  XI) =       7.1958
   31.38475 sec =       0.0061
         (  XI) =       7.2019
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 75°12'43''.75499$

```
TABULAR  ( XIV) =   26389.5684
   31.38475 sec =       8.1840
   SECOND DIFF  =      -0.0009
         ( XIV) =   26397.7515
TABULAR  (  XV) =     358.8062
   31.38475 sec =       0.2007
         (  XV) =     359.0069
```

$C = (XIV)q - (XV)q^3 = -1622''.38$

```
TABULAR  ( XVI) =     0.012310
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99994650$

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°50'	0.0000	30.833711	3665.8285	0.007820	1.912
	241168.2773	-0.937532	20.4143	-0.000978	-0.026
38°51'	1850.0227	30.833799	3666.2977	0.007799	1.911
	241112.0253	-0.937874	20.3556	-0.000978	-0.026
38°52'	3700.0506	30.833888	3666.7656	0.007778	1.910
	241055.7529	-0.938215	20.2970	-0.000977	-0.026
38°53'	5550.0839	30.833976	3667.2323	0.007758	1.909
	240999.4600	-0.938556	20.2383	-0.000977	-0.026
38°54'	7400.1225	30.834064	3667.6978	0.007737	1.908
	240943.1467	-0.938897	20.1797	-0.000977	-0.026
38°55'	9250.1663	30.834152	3668.1620	0.007716	1.907
	240886.8128	-0.939238	20.1211	-0.000976	-0.026
38°56'	11100.2155	30.834241	3668.6250	0.007696	1.906
	240830.4585	-0.939579	20.0625	-0.000976	-0.026
38°57'	12950.2699	30.834329	3669.0867	0.007675	1.905
	240774.0838	-0.939920	20.0040	-0.000976	-0.026
38°58'	14800.3297	30.834417	3669.5472	0.007654	1.904
	240717.6886	-0.940261	19.9454	-0.000976	-0.026
38°59'	16650.3947	30.834506	3670.0065	0.007634	1.903
	240661.2730	-0.940601	19.8869	-0.000975	-0.026
39° 0'	18500.4650	30.834594	3670.4645	0.007613	1.902
	240604.8369	-0.940942	19.8284	-0.000975	-0.026
39° 1'	20350.5407	30.834682	3670.9213	0.007592	1.901
	240548.3803	-0.941283	19.7699	-0.000975	-0.026
39° 2'	22200.6216	30.834771	3671.3768	0.007572	1.900
	240491.9034	-0.941623	19.7114	-0.000974	-0.026
39° 3'	24050.7079	30.834859	3671.8311	0.007551	1.899
	240435.4060	-0.941964	19.6529	-0.000974	-0.026
39° 4'	25900.7994	30.834947	3672.2842	0.007530	1.898
	240378.8882	-0.942304	19.5945	-0.000974	-0.026
39° 5'	27750.8963	30.835036	3672.7360	0.007509	1.897
	240322.3500	-0.942644	19.5360	-0.000974	-0.026
39° 6'	29600.9984	30.835124	3673.1865	0.007489	1.896
	240265.7913	-0.942984	19.4776	-0.000973	-0.026
39° 7'	31451.1059	30.835213	3673.6359	0.007468	1.895
	240209.2123	-0.943324	19.4192	-0.000973	-0.026
39° 8'	33301.2186	30.835301	3674.0839	0.007447	1.894
	240152.6128	-0.943664	19.3608	-0.000973	-0.026
39° 9'	35151.3367	30.835390	3674.5308	0.007427	1.893
	240095.9929	-0.944004	19.3025	-0.000972	-0.026

39°10'	37001.4601	30.835478	3674.9764	0.007406	1.892
	240039.3527	-0.944344	19.2441	-0.000972	-0.026
39°11'	38851.5888	30.835566	3675.4207	0.007385	1.891
	239982.6920	-0.944684	19.1858	-0.000972	-0.026

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IV)0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°12'	40701.7227	30.835655	3675.8639	0.007365	1.890
	239926.0110	-0.945024	19.1275	-0.000972	-0.026
39°13'	42551.8620	30.835743	3676.3057	0.007344	1.889
	239869.3096	-0.945363	19.0692	-0.000971	-0.026
39°14'	44402.0066	30.835832	3676.7464	0.007323	1.888
	239812.5878	-0.945703	19.0109	-0.000971	-0.026
39°15'	46252.1566	30.835920	3677.1857	0.007302	1.887
	239755.8456	-0.946042	18.9527	-0.000971	-0.026
39°16'	48102.3118	30.836009	3677.6239	0.007282	1.886
	239699.0830	-0.946382	18.8944	-0.000970	-0.026
39°17'	49952.4723	30.836097	3678.0608	0.007261	1.885
	239642.3001	-0.946721	18.8362	-0.000970	-0.027
39°18'	51802.6382	30.836186	3678.4964	0.007240	1.884
	239585.4969	-0.947060	18.7780	-0.000970	-0.027
39°19'	53652.8093	30.836274	3678.9309	0.007219	1.883
	239528.6733	-0.947399	18.7198	-0.000969	-0.027
39°20'	55502.9858	30.836363	3679.3640	0.007199	1.882
	239471.8293	-0.947739	18.6617	-0.000969	-0.027
39°21'	57353.1676	30.836452	3679.7959	0.007178	1.881
	239414.9650	-0.948078	18.6035	-0.000969	-0.027
39°22'	59203.3547	30.836540	3680.2266	0.007157	1.880
	239358.0803	-0.948416	18.5454	-0.000969	-0.027
39°23'	61053.5471	30.836629	3680.6561	0.007136	1.879
	239301.1753	-0.948755	18.4873	-0.000968	-0.027
39°24'	62903.7448	30.836717	3681.0842	0.007116	1.878
	239244.2500	-0.949094	18.4292	-0.000968	-0.027
39°25'	64753.9478	30.836806	3681.5112	0.007095	1.877
	239187.3044	-0.949433	18.3711	-0.000968	-0.027
39°26'	66604.1562	30.836895	3681.9369	0.007074	1.876
	239130.3384	-0.949771	18.3130	-0.000967	-0.027
39°27'	68454.3699	30.836983	3682.3613	0.007053	1.875
	239073.3521	-0.950110	18.2550	-0.000967	-0.027
39°28'	70304.5889	30.837072	3682.7846	0.007033	1.874
	239016.3455	-0.950448	18.1970	-0.000967	-0.027
39°29'	72154.8132	30.837161	3683.2065	0.007012	1.873
	238959.3186	-0.950787	18.1390	-0.000966	-0.027
39°30'	74005.0428	30.837249	3683.6272	0.006991	1.872
	238902.2714	-0.951125	18.0810	-0.000966	-0.027
39°31'	75855.2778	30.837338	3684.0467	0.006970	1.871
	238845.2039	-0.951463	18.0230	-0.000966	-0.027

39°32'	77705.5180	30.837427	3684.4649	0.006950	1.870
	238788.1161	-0.951801	17.9651	-0.000966	-0.027
39°33'	79555.7636	30.837515	3684.8819	0.006929	1.868
	238731.0080	-0.952140	17.9071	-0.000965	-0.027

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°34'	81406.0145	30.837604	3685.2977	0.006908	1.867
	238673.8797	-0.952478	17.8492	-0.000965	-0.027
39°35'	83256.2708	30.837693	3685.7121	0.006887	1.866
	238616.7310	-0.952815	17.7913	-0.000965	-0.027
39°36'	85106.5323	30.837781	3686.1254	0.006867	1.865
	238559.5621	-0.953153	17.7334	-0.000964	-0.027
39°37'	86956.7992	30.837870	3686.5374	0.006846	1.864
	238502.3729	-0.953491	17.6756	-0.000964	-0.027
39°38'	88807.0714	30.837959	3686.9481	0.006825	1.863
	238445.1634	-0.953829	17.6177	-0.000964	-0.027
39°39'	90657.3489	30.838048	3687.3576	0.006804	1.862
	238387.9337	-0.954166	17.5599	-0.000963	-0.027
39°40'	92507.6318	30.838136	3687.7659	0.006784	1.861
	238330.6837	-0.954504	17.5021	-0.000963	-0.027
39°41'	94357.9200	30.838225	3688.1729	0.006763	1.860
	238273.4135	-0.954841	17.4443	-0.000963	-0.027
39°42'	96208.2135	30.838314	3688.5787	0.006742	1.859
	238216.1230	-0.955179	17.3865	-0.000963	-0.027
39°43'	98058.5123	30.838403	3688.9832	0.006721	1.858
	238158.8123	-0.955516	17.3288	-0.000962	-0.027
39°44'	99908.8165	30.838491	3689.3865	0.006700	1.857
	238101.4813	-0.955853	17.2711	-0.000962	-0.027
39°45'	101759.1260	30.838580	3689.7885	0.006680	1.856
	238044.1302	-0.956190	17.2133	-0.000962	-0.027
39°46'	103609.4408	30.838669	3690.1892	0.006659	1.855
	237986.7587	-0.956527	17.1556	-0.000961	-0.027
39°47'	105459.7609	30.838758	3690.5888	0.006638	1.854
	237929.3671	-0.956864	17.0980	-0.000961	-0.027
39°48'	107310.0864	30.838847	3690.9871	0.006617	1.853
	237871.9553	-0.957201	17.0403	-0.000961	-0.027
39°49'	109160.4172	30.838936	3691.3841	0.006596	1.852
	237814.5232	-0.957538	16.9827	-0.000960	-0.027
39°50'	111010.7533	30.839025	3691.7799	0.006576	1.851
	237757.0709	-0.957875	16.9251	-0.000960	-0.027
39°51'	112861.0948	30.839113	3692.1744	0.006555	1.850
	237699.5984	-0.958211	16.8675	-0.000960	-0.027
39°52'	114711.4416	30.839202	3692.5677	0.006534	1.849
	237642.1057	-0.958548	16.8099	-0.000959	-0.027
39°53'	116561.7938	30.839291	3692.9597	0.006513	1.847
	237584.5929	-0.958884	16.7523	-0.000959	-0.027

39°54'	118412.1512	30.839380	3693.3505	0.006492	1.846
	237527.0598	-0.959221	16.6948	-0.000959	-0.027
39°55'	120262.5140	30.839469	3693.7400	0.006471	1.845
	237469.5066	-0.959557	16.6372	-0.000958	-0.027

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°56'	122112.8822	30.839558	3694.1283	0.006451	1.844
	237411.9331	-0.959893	16.5797	-0.000958	-0.027
39°57'	123963.2556	30.839647	3694.5154	0.006430	1.843
	237354.3395	-0.960230	16.5223	-0.000958	-0.027
39°58'	125813.6345	30.839736	3694.9012	0.006409	1.842
	237296.7258	-0.960566	16.4648	-0.000957	-0.027
39°59'	127664.0186	30.839825	3695.2857	0.006388	1.841
	237239.0918	-0.960902	16.4073	-0.000957	-0.027
40° 0'	129514.4081	30.839914	3695.6690	0.006367	1.840
	237181.4377	-0.961238	16.3499	-0.000957	-0.027
40° 1'	131364.8029	30.840003	3696.0510	0.006347	1.839
	237123.7634	-0.961574	16.2925	-0.000957	-0.027
40° 2'	133215.2031	30.840092	3696.4318	0.006326	1.838
	237066.0690	-0.961909	16.2351	-0.000956	-0.027
40° 3'	135065.6086	30.840181	3696.8114	0.006305	1.837
	237008.3545	-0.962245	16.1777	-0.000956	-0.027
40° 4'	136916.0194	30.840270	3697.1896	0.006284	1.836
	236950.6198	-0.962581	16.1204	-0.000956	-0.027
40° 5'	138766.4356	30.840359	3697.5667	0.006263	1.835
	236892.8649	-0.962916	16.0631	-0.000955	-0.027
40° 6'	140616.8571	30.840448	3697.9425	0.006242	1.834
	236835.0900	-0.963252	16.0057	-0.000955	-0.028
40° 7'	142467.2839	30.840537	3698.3170	0.006221	1.832
	236777.2949	-0.963587	15.9484	-0.000955	-0.028
40° 8'	144317.7161	30.840626	3698.6903	0.006201	1.831
	236719.4796	-0.963922	15.8912	-0.000954	-0.028
40° 9'	146168.1537	30.840715	3699.0623	0.006180	1.830
	236661.6443	-0.964258	15.8339	-0.000954	-0.028
40°10'	148018.5966	30.840804	3699.4331	0.006159	1.829
	236603.7888	-0.964593	15.7767	-0.000954	-0.028
40°11'	149869.0448	30.840893	3699.8027	0.006138	1.828
	236545.9133	-0.964928	15.7195	-0.000953	-0.028
40°12'	151719.4984	30.840982	3700.1710	0.006117	1.827
	236488.0176	-0.965263	15.6623	-0.000953	-0.028
40°13'	153569.9573	30.841071	3700.5380	0.006096	1.826
	236430.1018	-0.965598	15.6051	-0.000953	-0.028
40°14'	155420.4215	30.841160	3700.9038	0.006076	1.825
	236372.1660	-0.965933	15.5479	-0.000952	-0.028
40°15'	157270.8912	30.841249	3701.2683	0.006055	1.824
	236314.2100	-0.966267	15.4908	-0.000952	-0.028

40°16'	159121.3661	30.841338	3701.6316	0.006034	1.823
	236256.2340	-0.966602	15.4337	-0.000952	-0.028
40°17'	160971.8464	30.841427	3701.9936	0.006013	1.822
	236198.2379	-0.966937	15.3766	-0.000951	-0.028

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°18'	162822.3321	30.841517	3702.3544	0.005992	1.821
	236140.2217	-0.967271	15.3195	-0.000951	-0.028
40°19'	164672.8230	30.841606	3702.7139	0.005971	1.820
	236082.1854	-0.967606	15.2625	-0.000951	-0.028
40°20'	166523.3194	30.841695	3703.0722	0.005950	1.818
	236024.1291	-0.967940	15.2054	-0.000950	-0.028
40°21'	168373.8211	30.841784	3703.4292	0.005929	1.817
	235966.0527	-0.968274	15.1484	-0.000950	-0.028
40°22'	170224.3281	30.841873	3703.7850	0.005909	1.816
	235907.9562	-0.968608	15.0914	-0.000950	-0.028
40°23'	172074.8405	30.841962	3704.1395	0.005888	1.815
	235849.8397	-0.968942	15.0344	-0.000949	-0.028
40°24'	173925.3582	30.842052	3704.4927	0.005867	1.814
	235791.7032	-0.969277	14.9775	-0.000949	-0.028
40°25'	175775.8813	30.842141	3704.8447	0.005846	1.813
	235733.5466	-0.969610	14.9205	-0.000949	-0.028
40°26'	177626.4098	30.842230	3705.1955	0.005825	1.812
	235675.3700	-0.969944	14.8636	-0.000948	-0.028
40°27'	179476.9436	30.842319	3705.5450	0.005804	1.811
	235617.1733	-0.970278	14.8067	-0.000948	-0.028
40°28'	181327.4827	30.842408	3705.8933	0.005783	1.810
	235558.9566	-0.970612	14.7498	-0.000948	-0.028
40°29'	183178.0272	30.842498	3706.2402	0.005762	1.809
	235500.7199	-0.970945	14.6930	-0.000947	-0.028
40°30'	185028.5771	30.842587	3706.5860	0.005741	1.807
	235442.4632	-0.971279	14.6361	-0.000947	-0.028
40°31'	186879.1323	30.842676	3706.9305	0.005721	1.806
	235384.1864	-0.971613	14.5793	-0.000947	-0.028
40°32'	188729.6928	30.842765	3707.2737	0.005700	1.805
	235325.8897	-0.971946	14.5225	-0.000946	-0.028
40°33'	190580.2588	30.842855	3707.6157	0.005679	1.804
	235267.5729	-0.972279	14.4658	-0.000946	-0.028
40°34'	192430.8300	30.842944	3707.9564	0.005658	1.803
	235209.2362	-0.972612	14.4090	-0.000946	-0.028
40°35'	194281.4067	30.843033	3708.2959	0.005637	1.802
	235150.8794	-0.972946	14.3523	-0.000945	-0.028
40°36'	196131.9886	30.843122	3708.6341	0.005616	1.801
	235092.5027	-0.973279	14.2955	-0.000945	-0.028
40°37'	197982.5760	30.843212	3708.9711	0.005595	1.800
	235034.1059	-0.973612	14.2389	-0.000945	-0.028

40°38'	199833.1687	30.843301	3709.3068	0.005574	1.799
	234975.6892	-0.973945	14.1822	-0.000944	-0.028
40°39'	201683.7667	30.843390	3709.6412	0.005553	1.798
	234917.2526	-0.974277	14.1255	-0.000944	-0.028

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°40'	203534.3702	30.843480	3709.9744	0.005532	1.796
	234858.7959	-0.974610	14.0689	-0.000944	-0.028
40°41'	205384.9789	30.843569	3710.3064	0.005512	1.795
	234800.3193	-0.974943	14.0123	-0.000943	-0.028
40°42'	207235.5931	30.843658	3710.6371	0.005491	1.794
	234741.8227	-0.975275	13.9557	-0.000943	-0.028
40°43'	209086.2126	30.843748	3710.9665	0.005470	1.793
	234683.3062	-0.975608	13.8991	-0.000942	-0.028
40°44'	210936.8374	30.843837	3711.2947	0.005449	1.792
	234624.7697	-0.975940	13.8426	-0.000942	-0.028
40°45'	212787.4676	30.843926	3711.6216	0.005428	1.791
	234566.2133	-0.976273	13.7860	-0.000942	-0.028
40°46'	214638.1032	30.844016	3711.9473	0.005407	1.790
	234507.6369	-0.976605	13.7295	-0.000941	-0.028
40°47'	216488.7441	30.844105	3712.2717	0.005386	1.789
	234449.0406	-0.976937	13.6730	-0.000941	-0.028
40°48'	218339.3904	30.844194	3712.5949	0.005365	1.788
	234390.4244	-0.977269	13.6166	-0.000941	-0.028
40°49'	220190.0421	30.844284	3712.9168	0.005344	1.786
	234331.7882	-0.977601	13.5601	-0.000940	-0.028
40°50'	222040.6991	30.844373	3713.2374	0.005323	1.785
	234273.1321	-0.977933	13.5037	-0.000940	-0.028
40°51'	223891.3615	30.844463	3713.5568	0.005302	1.784
	234214.4561	-0.978265	13.4473	-0.000940	-0.028
40°52'	225742.0293	30.844552	3713.8750	0.005281	1.783
	234155.7602	-0.978597	13.3909	-0.000939	-0.028
40°53'	227592.7024	30.844641	3714.1918	0.005260	1.782
	234097.0444	-0.978929	13.3346	-0.000939	-0.028
40°54'	229443.3809	30.844731	3714.5075	0.005239	1.781
	234038.3087	-0.979260	13.2782	-0.000939	-0.028
40°55'	231294.0648	30.844820	3714.8218	0.005219	1.780
	233979.5531	-0.979592	13.2219	-0.000938	-0.028
40°56'	233144.7540	30.844910	3715.1349	0.005198	1.779
	233920.7775	-0.979923	13.1656	-0.000938	-0.028
40°57'	234995.4486	30.844999	3715.4468	0.005177	1.778
	233861.9821	-0.980255	13.1093	-0.000938	-0.028
40°58'	236846.1485	30.845089	3715.7574	0.005156	1.776
	233803.1669	-0.980586	13.0531	-0.000937	-0.028
40°59'	238696.8538	30.845178	3716.0667	0.005135	1.775
	233744.3317	-0.980917	12.9968	-0.000937	-0.028

41° 0'	240547.5645	30.845268	3716.3748	0.005114	1.774
	233685.4767	-0.981248	12.9406	-0.000937	-0.028
41° 1'	242398.2806	30.845357	3716.6817	0.005093	1.773
	233626.6017	-0.981580	12.8844	-0.000936	-0.028

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IV)0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41° 2'	244249.0020	30.845447	3716.9872	0.005072	1.772
	233567.7070	-0.981910	12.8283	-0.000936	-0.028
41° 3'	246099.7288	30.845536	3717.2915	0.005051	1.771
	233508.7924	-0.982241	12.7721	-0.000935	-0.028
41° 4'	247950.4610	30.845626	3717.5946	0.005030	1.770
	233449.8579	-0.982572	12.7160	-0.000935	-0.028
41° 5'	249801.1985	30.845715	3717.8964	0.005009	1.768
	233390.9035	-0.982903	12.6599	-0.000935	-0.029
41° 6'	251651.9414	30.845805	3718.1969	0.004988	1.767
	233331.9294	-0.983234	12.6038	-0.000934	-0.029
41° 7'	253502.6897	30.845894	3718.4962	0.004967	1.766
	233272.9353	-0.983564	12.5477	-0.000934	-0.029
41° 8'	255353.4434	30.845984	3718.7943	0.004946	1.765
	233213.9215	-0.983895	12.4917	-0.000934	-0.029
41° 9'	257204.2024	30.846073	3719.0910	0.004925	1.764
	233154.8878	-0.984225	12.4357	-0.000933	-0.029
41°10'	259054.9668	30.846163	3719.3865	0.004904	1.763
	233095.8343	-0.984555	12.3797	-0.000933	-0.029
41°11'	260905.7366	30.846252	3719.6808	0.004883	1.762
	233036.7610	-0.984886	12.3237	-0.000933	-0.029
41°12'	262756.5117	30.846342	3719.9738	0.004862	1.761
	232977.6678	-0.985216	12.2678	-0.000932	-0.029
41°13'	264607.2922	30.846432	3720.2655	0.004841	1.759
	232918.5549	-0.985546	12.2118	-0.000932	-0.029
41°14'	266458.0781	30.846521	3720.5560	0.004820	1.758
	232859.4221	-0.985876	12.1559	-0.000931	-0.029
41°15'	268308.8694	30.846611	3720.8452	0.004799	1.757
	232800.2696	-0.986206	12.1000	-0.000931	-0.029
41°16'	270159.6660	30.846700	3721.1332	0.004778	1.756
	232741.0972	-0.986536	12.0442	-0.000931	-0.029
41°17'	272010.4681	30.846790	3721.4199	0.004757	1.755
	232681.9051	-0.986865	11.9883	-0.000930	-0.029
41°18'	273861.2755	30.846880	3721.7053	0.004736	1.754
	232622.6931	-0.987195	11.9325	-0.000930	-0.029
41°19'	275712.0882	30.846969	3721.9895	0.004715	1.753
	232563.4614	-0.987525	11.8767	-0.000930	-0.029
41°20'	277562.9064	30.847059	3722.2724	0.004694	1.751
	232504.2099	-0.987854	11.8209	-0.000929	-0.029
41°21'	279413.7299	30.847148	3722.5541	0.004673	1.750
	232444.9387	-0.988184	11.7651	-0.000929	-0.029

41°22'	281264.5588	30.847238	3722.8345	0.004652	1.749
	232385.6477	-0.988513	11.7094	-0.000929	-0.029
41°23'	283115.3931	30.847328	3723.1137	0.004631	1.748
	232326.3369	-0.988842	11.6537	-0.000928	-0.029

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°24'	284966.2328	30.847417	3723.3915	0.004610	1.747
	232267.0063	-0.989172	11.5980	-0.000928	-0.029
41°25'	286817.0778	30.847507	3723.6682	0.004590	1.746
	232207.6560	-0.989501	11.5423	-0.000927	-0.029
41°26'	288667.9282	30.847597	3723.9435	0.004569	1.745
	232148.2860	-0.989830	11.4867	-0.000927	-0.029
41°27'	290518.7840	30.847686	3724.2177	0.004548	1.743
	232088.8962	-0.990159	11.4311	-0.000927	-0.029
41°28'	292369.6452	30.847776	3724.4905	0.004527	1.742
	232029.4867	-0.990488	11.3755	-0.000926	-0.029
41°29'	294220.5118	30.847866	3724.7621	0.004506	1.741
	231970.0574	-0.990816	11.3199	-0.000926	-0.029
41°30'	296071.3837	30.847955	3725.0324	0.004485	1.740
	231910.6085	-0.991145	11.2643	-0.000926	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°50'	0.0000	30.833711	2044.1210	0.020163	28.923
	41464.8233	0.161230	389.7844	0.005861	6.912
38°51'	1850.0227	30.833799	2045.3308	0.020173	28.950
	41474.4971	0.161364	390.1361	0.005869	6.923
38°52'	3700.0506	30.833888	2046.5412	0.020182	28.977
	41484.1790	0.161499	390.4882	0.005877	6.934
38°53'	5550.0839	30.833976	2047.7521	0.020191	29.003
	41493.8689	0.161633	390.8408	0.005885	6.946
38°54'	7400.1225	30.834064	2048.9636	0.020201	29.030
	41503.5669	0.161767	391.1939	0.005893	6.957
38°55'	9250.1663	30.834152	2050.1756	0.020210	29.057
	41513.2729	0.161902	391.5474	0.005901	6.968
38°56'	11100.2155	30.834241	2051.3882	0.020219	29.084
	41522.9870	0.162036	391.9015	0.005909	6.979
38°57'	12950.2699	30.834329	2052.6014	0.020229	29.110
	41532.7092	0.162171	392.2560	0.005917	6.990
38°58'	14800.3297	30.834417	2053.8151	0.020238	29.137
	41542.4394	0.162306	392.6110	0.005925	7.001
38°59'	16650.3947	30.834506	2055.0294	0.020248	29.164
	41552.1778	0.162441	392.9664	0.005933	7.013
39° 0'	18500.4650	30.834594	2056.2443	0.020257	29.191
	41561.9242	0.162576	393.3224	0.005941	7.024
39° 1'	20350.5407	30.834682	2057.4597	0.020267	29.218
	41571.6788	0.162711	393.6788	0.005949	7.035
39° 2'	22200.6216	30.834771	2058.6757	0.020276	29.245
	41581.4415	0.162846	394.0357	0.005957	7.047
39° 3'	24050.7079	30.834859	2059.8923	0.020286	29.272
	41591.2122	0.162982	394.3931	0.005965	7.058
39° 4'	25900.7994	30.834947	2061.1094	0.020295	29.299
	41600.9911	0.163117	394.7510	0.005973	7.069
39° 5'	27750.8963	30.835036	2062.3271	0.020304	29.326
	41610.7782	0.163253	395.1094	0.005981	7.081
39° 6'	29600.9984	30.835124	2063.5454	0.020314	29.353
	41620.5734	0.163389	395.4682	0.005989	7.092
39° 7'	31451.1059	30.835213	2064.7642	0.020323	29.381
	41630.3767	0.163525	395.8276	0.005997	7.104
39° 8'	33301.2186	30.835301	2065.9836	0.020333	29.408
	41640.1882	0.163661	396.1874	0.006005	7.115
39° 9'	35151.3367	30.835390	2067.2036	0.020342	29.435
	41650.0079	0.163797	396.5477	0.006013	7.126

39°10'	37001.4601	30.835478	2068.4241	0.020352	29.462
	41659.8357	0.163934	396.9085	0.006022	7.138
39°11'	38851.5888	30.835566	2069.6453	0.020362	29.489
	41669.6717	0.164070	397.2698	0.006030	7.149

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°12'	40701.7227	30.835655	2070.8670	0.020371	29.517
	41679.5159	0.164207	397.6316	0.006038	7.161
39°13'	42551.8620	30.835743	2072.0892	0.020381	29.544
	41689.3683	0.164343	397.9939	0.006046	7.173
39°14'	44402.0066	30.835832	2073.3121	0.020390	29.571
	41699.2289	0.164480	398.3567	0.006054	7.184
39°15'	46252.1566	30.835920	2074.5355	0.020400	29.599
	41709.0978	0.164617	398.7199	0.006063	7.196
39°16'	48102.3118	30.836009	2075.7595	0.020409	29.626
	41718.9748	0.164754	399.0837	0.006071	7.207
39°17'	49952.4723	30.836097	2076.9840	0.020419	29.654
	41728.8600	0.164891	399.4479	0.006079	7.219
39°18'	51802.6382	30.836186	2078.2092	0.020429	29.681
	41738.7535	0.165029	399.8127	0.006087	7.231
39°19'	53652.8093	30.836274	2079.4349	0.020438	29.709
	41748.6552	0.165166	400.1779	0.006096	7.242
39°20'	55502.9858	30.836363	2080.6612	0.020448	29.736
	41758.5652	0.165304	400.5437	0.006104	7.254
39°21'	57353.1676	30.836452	2081.8881	0.020458	29.764
	41768.4834	0.165442	400.9099	0.006112	7.266
39°22'	59203.3547	30.836540	2083.1155	0.020467	29.791
	41778.4099	0.165579	401.2767	0.006121	7.278
39°23'	61053.5471	30.836629	2084.3436	0.020477	29.819
	41788.3447	0.165717	401.6439	0.006129	7.289
39°24'	62903.7448	30.836717	2085.5722	0.020487	29.847
	41798.2877	0.165855	402.0116	0.006137	7.301
39°25'	64753.9478	30.836806	2086.8014	0.020496	29.874
	41808.2391	0.165994	402.3799	0.006146	7.313
39°26'	66604.1562	30.836895	2088.0311	0.020506	29.902
	41818.1987	0.166132	402.7486	0.006154	7.325
39°27'	68454.3699	30.836983	2089.2615	0.020516	29.930
	41828.1666	0.166270	403.1178	0.006162	7.337
39°28'	70304.5889	30.837072	2090.4924	0.020525	29.958
	41838.1428	0.166409	403.4876	0.006171	7.349
39°29'	72154.8132	30.837161	2091.7240	0.020535	29.985
	41848.1274	0.166548	403.8578	0.006179	7.361
39°30'	74005.0428	30.837249	2092.9561	0.020545	30.013
	41858.1202	0.166687	404.2286	0.006188	7.373
39°31'	75855.2778	30.837338	2094.1888	0.020555	30.041
	41868.1214	0.166826	404.5998	0.006196	7.385

39°32'	77705.5180	30.837427	2095.4220	0.020564	30.069
	41878.1310	0.166965	404.9716	0.006205	7.397
39°33'	79555.7636	30.837515	2096.6559	0.020574	30.097
	41888.1489	0.167104	405.3439	0.006213	7.409

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°34'	81406.0145	30.837604	2097.8903	0.020584	30.125
	41898.1751	0.167243	405.7167	0.006222	7.421
39°35'	83256.2708	30.837693	2099.1254	0.020594	30.153
	41908.2097	0.167383	406.0900	0.006230	7.433
39°36'	85106.5323	30.837781	2100.3610	0.020604	30.181
	41918.2527	0.167523	406.4638	0.006239	7.445
39°37'	86956.7992	30.837870	2101.5972	0.020613	30.209
	41928.3040	0.167662	406.8381	0.006247	7.457
39°38'	88807.0714	30.837959	2102.8340	0.020623	30.237
	41938.3638	0.167802	407.2129	0.006256	7.469
39°39'	90657.3489	30.838048	2104.0714	0.020633	30.265
	41948.4319	0.167942	407.5882	0.006264	7.481
39°40'	92507.6318	30.838136	2105.3094	0.020643	30.294
	41958.5084	0.168082	407.9641	0.006273	7.494
39°41'	94357.9200	30.838225	2106.5480	0.020653	30.322
	41968.5934	0.168223	408.3404	0.006281	7.506
39°42'	96208.2135	30.838314	2107.7871	0.020663	30.350
	41978.6867	0.168363	408.7173	0.006290	7.518
39°43'	98058.5123	30.838403	2109.0269	0.020672	30.378
	41988.7885	0.168504	409.0947	0.006299	7.530
39°44'	99908.8165	30.838491	2110.2672	0.020682	30.407
	41998.8987	0.168644	409.4726	0.006307	7.543
39°45'	101759.1260	30.838580	2111.5082	0.020692	30.435
	42009.0174	0.168785	409.8511	0.006316	7.555
39°46'	103609.4408	30.838669	2112.7497	0.020702	30.463
	42019.1445	0.168926	410.2300	0.006324	7.567
39°47'	105459.7609	30.838758	2113.9918	0.020712	30.492
	42029.2800	0.169067	410.6095	0.006333	7.580
39°48'	107310.0864	30.838847	2115.2346	0.020722	30.520
	42039.4241	0.169208	410.9895	0.006342	7.592
39°49'	109160.4172	30.838936	2116.4779	0.020732	30.548
	42049.5766	0.169350	411.3700	0.006350	7.605
39°50'	111010.7533	30.839025	2117.7218	0.020742	30.577
	42059.7375	0.169491	411.7510	0.006359	7.617
39°51'	112861.0948	30.839113	2118.9663	0.020752	30.605
	42069.9070	0.169633	412.1325	0.006368	7.629
39°52'	114711.4416	30.839202	2120.2114	0.020762	30.634
	42080.0850	0.169774	412.5146	0.006377	7.642
39°53'	116561.7938	30.839291	2121.4571	0.020772	30.663
	42090.2714	0.169916	412.8972	0.006385	7.655

39°54'	118412.1512	30.839380	2122.7034	0.020782	30.691
	42100.4664	0.170058	413.2803	0.006394	7.667
39°55'	120262.5140	30.839469	2123.9504	0.020792	30.720
	42110.6699	0.170200	413.6640	0.006403	7.680

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°56'	122112.8822	30.839558	2125.1979	0.020802	30.749
	42120.8819	0.170343	414.0482	0.006412	7.692
39°57'	123963.2556	30.839647	2126.4460	0.020812	30.777
	42131.1025	0.170485	414.4329	0.006421	7.705
39°58'	125813.6345	30.839736	2127.6947	0.020822	30.806
	42141.3316	0.170628	414.8181	0.006429	7.718
39°59'	127664.0186	30.839825	2128.9440	0.020832	30.835
	42151.5692	0.170770	415.2039	0.006438	7.730
40° 0'	129514.4081	30.839914	2130.1939	0.020842	30.864
	42161.8154	0.170913	415.5902	0.006447	7.743
40° 1'	131364.8029	30.840003	2131.4445	0.020852	30.893
	42172.0702	0.171056	415.9770	0.006456	7.756
40° 2'	133215.2031	30.840092	2132.6956	0.020862	30.921
	42182.3336	0.171199	416.3644	0.006465	7.768
40° 3'	135065.6086	30.840181	2133.9473	0.020872	30.950
	42192.6055	0.171342	416.7522	0.006474	7.781
40° 4'	136916.0194	30.840270	2135.1997	0.020882	30.979
	42202.8860	0.171485	417.1407	0.006483	7.794
40° 5'	138766.4356	30.840359	2136.4526	0.020893	31.008
	42213.1752	0.171629	417.5296	0.006492	7.807
40° 6'	140616.8571	30.840448	2137.7062	0.020903	31.037
	42223.4729	0.171773	417.9191	0.006501	7.820
40° 7'	142467.2839	30.840537	2138.9603	0.020913	31.066
	42233.7792	0.171916	418.3092	0.006510	7.832
40° 8'	144317.7161	30.840626	2140.2151	0.020923	31.095
	42244.0942	0.172060	418.6997	0.006518	7.845
40° 9'	146168.1537	30.840715	2141.4705	0.020933	31.125
	42254.4178	0.172204	419.0908	0.006527	7.858
40°10'	148018.5966	30.840804	2142.7265	0.020943	31.154
	42264.7501	0.172348	419.4825	0.006536	7.871
40°11'	149869.0448	30.840893	2143.9830	0.020953	31.183
	42275.0910	0.172493	419.8747	0.006545	7.884
40°12'	151719.4984	30.840982	2145.2403	0.020964	31.212
	42285.4405	0.172637	420.2674	0.006555	7.897
40°13'	153569.9573	30.841071	2146.4981	0.020974	31.241
	42295.7987	0.172781	420.6607	0.006564	7.910
40°14'	155420.4215	30.841160	2147.7565	0.020984	31.271
	42306.1656	0.172926	421.0545	0.006573	7.923
40°15'	157270.8912	30.841249	2149.0156	0.020994	31.300
	42316.5412	0.173071	421.4488	0.006582	7.936

40°16'	159121.3661	30.841338	2150.2752	0.021005	31.329
	42326.9254	0.173216	421.8437	0.006591	7.950
40°17'	160971.8464	30.841427	2151.5355	0.021015	31.359
	42337.3184	0.173361	422.2392	0.006600	7.963

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°18'	162822.3321	30.841517	2152.7964	0.021025	31.388
	42347.7201	0.173506	422.6352	0.006609	7.976
40°19'	164672.8230	30.841606	2154.0579	0.021035	31.418
	42358.1304	0.173652	423.0317	0.006618	7.989
40°20'	166523.3194	30.841695	2155.3200	0.021046	31.447
	42368.5495	0.173797	423.4288	0.006627	8.002
40°21'	168373.8211	30.841784	2156.5828	0.021056	31.477
	42378.9773	0.173943	423.8265	0.006636	8.016
40°22'	170224.3281	30.841873	2157.8461	0.021066	31.506
	42389.4139	0.174088	424.2246	0.006646	8.029
40°23'	172074.8405	30.841962	2159.1101	0.021077	31.536
	42399.8592	0.174234	424.6234	0.006655	8.042
40°24'	173925.3582	30.842052	2160.3747	0.021087	31.565
	42410.3133	0.174380	425.0227	0.006664	8.055
40°25'	175775.8813	30.842141	2161.6399	0.021097	31.595
	42420.7761	0.174527	425.4225	0.006673	8.069
40°26'	177626.4098	30.842230	2162.9057	0.021108	31.625
	42431.2477	0.174673	425.8229	0.006683	8.082
40°27'	179476.9436	30.842319	2164.1722	0.021118	31.654
	42441.7281	0.174819	426.2239	0.006692	8.096
40°28'	181327.4827	30.842408	2165.4393	0.021128	31.684
	42452.2172	0.174966	426.6254	0.006701	8.109
40°29'	183178.0272	30.842498	2166.7070	0.021139	31.714
	42462.7152	0.175113	427.0275	0.006710	8.122
40°30'	185028.5771	30.842587	2167.9753	0.021149	31.744
	42473.2220	0.175260	427.4301	0.006720	8.136
40°31'	186879.1323	30.842676	2169.2442	0.021160	31.774
	42483.7376	0.175407	427.8333	0.006729	8.149
40°32'	188729.6928	30.842765	2170.5138	0.021170	31.804
	42494.2620	0.175554	428.2370	0.006738	8.163
40°33'	190580.2588	30.842855	2171.7840	0.021180	31.833
	42504.7952	0.175701	428.6413	0.006748	8.177
40°34'	192430.8300	30.842944	2173.0548	0.021191	31.863
	42515.3373	0.175849	429.0462	0.006757	8.190
40°35'	194281.4067	30.843033	2174.3263	0.021201	31.893
	42525.8882	0.175996	429.4516	0.006766	8.204
40°36'	196131.9886	30.843122	2175.5984	0.021212	31.923
	42536.4479	0.176144	429.8576	0.006776	8.217
40°37'	197982.5760	30.843212	2176.8711	0.021222	31.954
	42547.0166	0.176292	430.2641	0.006785	8.231

40°38'	199833.1687	30.843301	2178.1444	0.021233	31.984
	42557.5941	0.176440	430.6712	0.006795	8.245
40°39'	201683.7667	30.843390	2179.4184	0.021243	32.014
	42568.1805	0.176588	431.0789	0.006804	8.259

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°40'	203534.3702	30.843480	2180.6930	0.021254	32.044
	42578.7757	0.176736	431.4872	0.006814	8.272
40°41'	205384.9789	30.843569	2181.9682	0.021264	32.074
	42589.3799	0.176885	431.8960	0.006823	8.286
40°42'	207235.5931	30.843658	2183.2440	0.021275	32.104
	42599.9930	0.177033	432.3054	0.006833	8.300
40°43'	209086.2126	30.843748	2184.5205	0.021285	32.135
	42610.6150	0.177182	432.7153	0.006842	8.314
40°44'	210936.8374	30.843837	2185.7976	0.021296	32.165
	42621.2459	0.177331	433.1259	0.006852	8.328
40°45'	212787.4676	30.843926	2187.0754	0.021306	32.195
	42631.8857	0.177480	433.5370	0.006861	8.342
40°46'	214638.1032	30.844016	2188.3538	0.021317	32.226
	42642.5345	0.177629	433.9486	0.006871	8.356
40°47'	216488.7441	30.844105	2189.6328	0.021328	32.256
	42653.1922	0.177778	434.3609	0.006880	8.370
40°48'	218339.3904	30.844194	2190.9125	0.021338	32.287
	42663.8589	0.177928	434.7737	0.006890	8.384
40°49'	220190.0421	30.844284	2192.1928	0.021349	32.317
	42674.5346	0.178077	435.1871	0.006900	8.398
40°50'	222040.6991	30.844373	2193.4737	0.021360	32.348
	42685.2192	0.178227	435.6011	0.006909	8.412
40°51'	223891.3615	30.844463	2194.7553	0.021370	32.378
	42695.9128	0.178377	436.0156	0.006919	8.426
40°52'	225742.0293	30.844552	2196.0375	0.021381	32.409
	42706.6154	0.178527	436.4307	0.006928	8.440
40°53'	227592.7024	30.844641	2197.3203	0.021391	32.440
	42717.3270	0.178677	436.8464	0.006938	8.454
40°54'	229443.3809	30.844731	2198.6038	0.021402	32.470
	42728.0476	0.178827	437.2627	0.006948	8.468
40°55'	231294.0648	30.844820	2199.8879	0.021413	32.501
	42738.7773	0.178978	437.6796	0.006957	8.482
40°56'	233144.7540	30.844910	2201.1727	0.021424	32.532
	42749.5159	0.179128	438.0970	0.006967	8.496
40°57'	234995.4486	30.844999	2202.4581	0.021434	32.562
	42760.2636	0.179279	438.5151	0.006977	8.511
40°58'	236846.1485	30.845089	2203.7442	0.021445	32.593
	42771.0203	0.179430	438.9337	0.006987	8.525
40°59'	238696.8538	30.845178	2205.0309	0.021456	32.624
	42781.7861	0.179581	439.3529	0.006996	8.539

41° 0'	240547.5645	30.845268	2206.3182	0.021466	32.655
	42792.5609	0.179732	439.7727	0.007006	8.554
41° 1'	242398.2806	30.845357	2207.6062	0.021477	32.686
	42803.3448	0.179883	440.1931	0.007016	8.568

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41° 2'	244249.0020	30.845447	2208.8948	0.021488	32.717
	42814.1378	0.180035	440.6140	0.007026	8.582
41° 3'	246099.7288	30.845536	2210.1841	0.021499	32.748
	42824.9399	0.180186	441.0356	0.007036	8.597
41° 4'	247950.4610	30.845626	2211.4741	0.021510	32.779
	42835.7511	0.180338	441.4577	0.007046	8.611
41° 5'	249801.1985	30.845715	2212.7646	0.021520	32.810
	42846.5713	0.180490	441.8804	0.007055	8.626
41° 6'	251651.9414	30.845805	2214.0558	0.021531	32.841
	42857.4007	0.180642	442.3038	0.007065	8.640
41° 7'	253502.6897	30.845894	2215.3477	0.021542	32.872
	42868.2392	0.180794	442.7277	0.007075	8.655
41° 8'	255353.4434	30.845984	2216.6402	0.021553	32.904
	42879.0869	0.180946	443.1522	0.007085	8.669
41° 9'	257204.2024	30.846073	2217.9334	0.021564	32.935
	42889.9437	0.181099	443.5773	0.007095	8.684
41°10'	259054.9668	30.846163	2219.2272	0.021575	32.966
	42900.8096	0.181251	444.0030	0.007105	8.699
41°11'	260905.7366	30.846252	2220.5217	0.021585	32.997
	42911.6847	0.181404	444.4293	0.007115	8.713
41°12'	262756.5117	30.846342	2221.8168	0.021596	33.029
	42922.5689	0.181557	444.8562	0.007125	8.728
41°13'	264607.2922	30.846432	2223.1126	0.021607	33.060
	42933.4623	0.181710	445.2837	0.007135	8.743
41°14'	266458.0781	30.846521	2224.4091	0.021618	33.091
	42944.3649	0.181863	445.7118	0.007145	8.758
41°15'	268308.8694	30.846611	2225.7061	0.021629	33.123
	42955.2767	0.182017	446.1405	0.007155	8.772
41°16'	270159.6660	30.846700	2227.0039	0.021640	33.154
	42966.1977	0.182170	446.5698	0.007165	8.787
41°17'	272010.4681	30.846790	2228.3023	0.021651	33.186
	42977.1279	0.182324	446.9997	0.007175	8.802
41°18'	273861.2755	30.846880	2229.6013	0.021662	33.217
	42988.0673	0.182478	447.4302	0.007185	8.817
41°19'	275712.0882	30.846969	2230.9011	0.021673	33.249
	42999.0160	0.182632	447.8614	0.007195	8.832
41°20'	277562.9064	30.847059	2232.2014	0.021684	33.281
	43009.9739	0.182786	448.2931	0.007205	8.847
41°21'	279413.7299	30.847148	2233.5025	0.021695	33.312
	43020.9410	0.182940	448.7254	0.007216	8.862

41°22'	281264.5588	30.847238	2234.8042	0.021706	33.344
	43031.9174	0.183094	449.1583	0.007226	8.877
41°23'	283115.3931	30.847328	2236.1065	0.021717	33.376
	43042.9031	0.183249	449.5919	0.007236	8.892

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

NEW JERSEY Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°24'	284966.2328	30.847417	2237.4095	0.021728	33.408
	43053.8980	0.183403	450.0260	0.007246	8.907
41°25'	286817.0778	30.847507	2238.7132	0.021739	33.439
	43064.9022	0.183558	450.4608	0.007256	8.922
41°26'	288667.9282	30.847597	2240.0176	0.021750	33.471
	43075.9157	0.183713	450.8962	0.007267	8.937
41°27'	290518.7840	30.847686	2241.3226	0.021761	33.503
	43086.9385	0.183868	451.3322	0.007277	8.952
41°28'	292369.6452	30.847776	2242.6282	0.021772	33.535
	43097.9706	0.184024	451.7688	0.007287	8.967
41°29'	294220.5118	30.847866	2243.9346	0.021783	33.567
	43109.0120	0.184179	452.2060	0.007297	8.983
41°30'	296071.3837	30.847955	2245.2416	0.021794	33.599
	43120.0628	0.184335	452.6439	0.007308	8.998

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°50'	0.0000	30.833711	6270.5711	0.037761	3.018	
			26000.8121	0.257714	349.371	0.012311
38°51'	1850.0227	30.833799	6272.8367	0.037752	3.017	
			26016.2749	0.257834	349.743	0.012311
38°52'	3700.0506	30.833888	6275.1019	0.037744	3.017	
			26031.7450	0.257955	350.115	0.012311
38°53'	5550.0839	30.833976	6277.3665	0.037735	3.017	
			26047.2222	0.258075	350.488	0.012311
38°54'	7400.1225	30.834064	6279.6306	0.037726	3.016	
			26062.7068	0.258196	350.861	0.012311
38°55'	9250.1663	30.834152	6281.8941	0.037717	3.016	
			26078.1985	0.258317	351.235	0.012311
38°56'	11100.2155	30.834241	6284.1571	0.037708	3.016	
			26093.6976	0.258438	351.609	0.012311
38°57'	12950.2699	30.834329	6286.4196	0.037699	3.015	
			26109.2039	0.258559	351.983	0.012311
38°58'	14800.3297	30.834417	6288.6816	0.037690	3.015	
			26124.7174	0.258681	352.358	0.012311
38°59'	16650.3947	30.834506	6290.9430	0.037682	3.015	
			26140.2383	0.258802	352.734	0.012311
39° 0'	18500.4650	30.834594	6293.2039	0.037673	3.014	
			26155.7664	0.258924	353.110	0.012311
39° 1'	20350.5407	30.834682	6295.4643	0.037664	3.014	
			26171.3018	0.259046	353.486	0.012311
39° 2'	22200.6216	30.834771	6297.7241	0.037655	3.014	
			26186.8446	0.259167	353.863	0.012311
39° 3'	24050.7079	30.834859	6299.9834	0.037646	3.013	
			26202.3946	0.259289	354.240	0.012310
39° 4'	25900.7994	30.834947	6302.2422	0.037637	3.013	
			26217.9520	0.259412	354.618	0.012310
39° 5'	27750.8963	30.835036	6304.5004	0.037628	3.013	
			26233.5167	0.259534	354.997	0.012310
39° 6'	29600.9984	30.835124	6306.7581	0.037619	3.012	
			26249.0887	0.259656	355.375	0.012310
39° 7'	31451.1059	30.835213	6309.0152	0.037610	3.012	
			26264.6681	0.259779	355.755	0.012310
39° 8'	33301.2186	30.835301	6311.2719	0.037602	3.011	
			26280.2548	0.259901	356.134	0.012310
39° 9'	35151.3367	30.835390	6313.5280	0.037593	3.011	
			26295.8489	0.260024	356.515	0.012310

39°10'	37001.4601	30.835478	6315.7835	0.037584	3.011	
			26311.4504	0.260147	356.895	0.012310
39°11'	38851.5888	30.835566	6318.0385	0.037575	3.010	
			26327.0592	0.260270	357.277	0.012310

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°12'	40701.7227	30.835655	6320.2930	0.037566	3.010	
			26342.6754	0.260393	357.658	0.012310
39°13'	42551.8620	30.835743	6322.5470	0.037557	3.010	
			26358.2990	0.260517	358.040	0.012310
39°14'	44402.0066	30.835832	6324.8004	0.037548	3.009	
			26373.9300	0.260640	358.423	0.012310
39°15'	46252.1566	30.835920	6327.0533	0.037539	3.009	
			26389.5684	0.260764	358.806	0.012310
39°16'	48102.3118	30.836009	6329.3056	0.037530	3.008	
			26405.2142	0.260887	359.190	0.012310
39°17'	49952.4723	30.836097	6331.5574	0.037521	3.008	
			26420.8675	0.261011	359.574	0.012310
39°18'	51802.6382	30.836186	6333.8087	0.037512	3.008	
			26436.5281	0.261135	359.959	0.012310
39°19'	53652.8093	30.836274	6336.0595	0.037503	3.007	
			26452.1962	0.261259	360.344	0.012310
39°20'	55502.9858	30.836363	6338.3097	0.037494	3.007	
			26467.8718	0.261383	360.729	0.012310
39°21'	57353.1676	30.836452	6340.5593	0.037486	3.007	
			26483.5548	0.261508	361.115	0.012310
39°22'	59203.3547	30.836540	6342.8085	0.037477	3.006	
			26499.2453	0.261632	361.502	0.012310
39°23'	61053.5471	30.836629	6345.0571	0.037468	3.006	
			26514.9432	0.261757	361.889	0.012310
39°24'	62903.7448	30.836717	6347.3051	0.037459	3.005	
			26530.6486	0.261882	362.276	0.012310
39°25'	64753.9478	30.836806	6349.5527	0.037450	3.005	
			26546.3615	0.262007	362.664	0.012309
39°26'	66604.1562	30.836895	6351.7996	0.037441	3.005	
			26562.0819	0.262132	363.053	0.012309
39°27'	68454.3699	30.836983	6354.0461	0.037432	3.004	
			26577.8098	0.262257	363.442	0.012309
39°28'	70304.5889	30.837072	6356.2920	0.037423	3.004	
			26593.5452	0.262382	363.831	0.012309
39°29'	72154.8132	30.837161	6358.5374	0.037414	3.003	
			26609.2882	0.262508	364.222	0.012309
39°30'	74005.0428	30.837249	6360.7822	0.037405	3.003	
			26625.0386	0.262633	364.612	0.012309
39°31'	75855.2778	30.837338	6363.0265	0.037396	3.003	
			26640.7966	0.262759	365.003	0.012309

39°32'	77705.5180	30.837427	6365.2703	0.037387	3.002	
			26656.5621	0.262885	365.395	0.012309
39°33'	79555.7636	30.837515	6367.5135	0.037378	3.002	
			26672.3352	0.263011	365.787	0.012309

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°34'	81406.0145	30.837604	6369.7562	0.037369	3.001	
			26688.1159	0.263137	366.179	0.012309
39°35'	83256.2708	30.837693	6371.9983	0.037360	3.001	
			26703.9041	0.263263	366.572	0.012309
39°36'	85106.5323	30.837781	6374.2399	0.037351	3.001	
			26719.6999	0.263389	366.966	0.012309
39°37'	86956.7992	30.837870	6376.4810	0.037342	3.000	
			26735.5032	0.263516	367.360	0.012309
39°38'	88807.0714	30.837959	6378.7215	0.037333	3.000	
			26751.3142	0.263643	367.754	0.012309
39°39'	90657.3489	30.838048	6380.9615	0.037324	2.999	
			26767.1327	0.263769	368.149	0.012309
39°40'	92507.6318	30.838136	6383.2009	0.037315	2.999	
			26782.9589	0.263896	368.545	0.012309
39°41'	94357.9200	30.838225	6385.4398	0.037306	2.999	
			26798.7927	0.264023	368.941	0.012309
39°42'	96208.2135	30.838314	6387.6782	0.037297	2.998	
			26814.6341	0.264151	369.337	0.012309
39°43'	98058.5123	30.838403	6389.9160	0.037288	2.998	
			26830.4831	0.264278	369.734	0.012309
39°44'	99908.8165	30.838491	6392.1533	0.037279	2.997	
			26846.3398	0.264405	370.132	0.012309
39°45'	101759.1260	30.838580	6394.3900	0.037270	2.997	
			26862.2041	0.264533	370.530	0.012309
39°46'	103609.4408	30.838669	6396.6262	0.037261	2.996	
			26878.0761	0.264661	370.928	0.012308
39°47'	105459.7609	30.838758	6398.8619	0.037252	2.996	
			26893.9558	0.264789	371.327	0.012308
39°48'	107310.0864	30.838847	6401.0970	0.037243	2.996	
			26909.8431	0.264917	371.727	0.012308
39°49'	109160.4172	30.838936	6403.3316	0.037234	2.995	
			26925.7381	0.265045	372.127	0.012308
39°50'	111010.7533	30.839025	6405.5656	0.037225	2.995	
			26941.6408	0.265173	372.528	0.012308
39°51'	112861.0948	30.839113	6407.7991	0.037216	2.994	
			26957.5512	0.265302	372.929	0.012308
39°52'	114711.4416	30.839202	6410.0320	0.037207	2.994	
			26973.4693	0.265430	373.330	0.012308
39°53'	116561.7938	30.839291	6412.2645	0.037198	2.994	
			26989.3951	0.265559	373.733	0.012308

39°54'	118412.1512	30.839380	6414.4963	0.037189	2.993	
			27005.3287	0.265688	374.135	0.012308
39°55'	120262.5140	30.839469	6416.7276	0.037180	2.993	
			27021.2699	0.265817	374.538	0.012308

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV) 0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°56'	122112.8822	30.839558	6418.9584	0.037171	2.992	
			27037.2189	0.265946	374.942	0.012308
39°57'	123963.2556	30.839647	6421.1887	0.037162	2.992	
			27053.1757	0.266075	375.346	0.012308
39°58'	125813.6345	30.839736	6423.4183	0.037152	2.991	
			27069.1402	0.266205	375.751	0.012308
39°59'	127664.0186	30.839825	6425.6475	0.037143	2.991	
			27085.1125	0.266334	376.156	0.012308
40° 0'	129514.4081	30.839914	6427.8761	0.037134	2.990	
			27101.0926	0.266464	376.562	0.012308
40° 1'	131364.8029	30.840003	6430.1042	0.037125	2.990	
			27117.0804	0.266594	376.969	0.012308
40° 2'	133215.2031	30.840092	6432.3317	0.037116	2.990	
			27133.0760	0.266724	377.375	0.012308
40° 3'	135065.6086	30.840181	6434.5586	0.037107	2.989	
			27149.0795	0.266854	377.783	0.012308
40° 4'	136916.0194	30.840270	6436.7851	0.037098	2.989	
			27165.0907	0.266984	378.191	0.012308
40° 5'	138766.4356	30.840359	6439.0110	0.037089	2.988	
			27181.1097	0.267115	378.599	0.012308
40° 6'	140616.8571	30.840448	6441.2363	0.037080	2.988	
			27197.1366	0.267245	379.008	0.012308
40° 7'	142467.2839	30.840537	6443.4611	0.037071	2.987	
			27213.1713	0.267376	379.418	0.012307
40° 8'	144317.7161	30.840626	6445.6853	0.037062	2.987	
			27229.2139	0.267507	379.828	0.012307
40° 9'	146168.1537	30.840715	6447.9090	0.037053	2.986	
			27245.2643	0.267638	380.238	0.012307
40°10'	148018.5966	30.840804	6450.1322	0.037044	2.986	
			27261.3225	0.267769	380.649	0.012307
40°11'	149869.0448	30.840893	6452.3548	0.037034	2.986	
			27277.3887	0.267900	381.061	0.012307
40°12'	151719.4984	30.840982	6454.5769	0.037025	2.985	
			27293.4627	0.268031	381.473	0.012307
40°13'	153569.9573	30.841071	6456.7984	0.037016	2.985	
			27309.5445	0.268163	381.886	0.012307
40°14'	155420.4215	30.841160	6459.0194	0.037007	2.984	
			27325.6343	0.268295	382.299	0.012307
40°15'	157270.8912	30.841249	6461.2398	0.036998	2.984	
			27341.7320	0.268426	382.713	0.012307

40°16'	159121.3661	30.841338	6463.4597	0.036989	2.983	
			27357.8376	0.268558	383.127	0.012307
40°17'	160971.8464	30.841427	6465.6790	0.036980	2.983	
			27373.9511	0.268691	383.542	0.012307

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV) 0.0000	-0.0006	-0.0009	-0.001

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°18'	162822.3321	30.841517	6467.8978	0.036971	2.982	
			27390.0725	0.268823	383.957	0.012307
40°19'	164672.8230	30.841606	6470.1160	0.036962	2.982	
			27406.2019	0.268955	384.373	0.012307
40°20'	166523.3194	30.841695	6472.3337	0.036952	2.981	
			27422.3392	0.269088	384.789	0.012307
40°21'	168373.8211	30.841784	6474.5509	0.036943	2.981	
			27438.4845	0.269220	385.206	0.012307
40°22'	170224.3281	30.841873	6476.7675	0.036934	2.980	
			27454.6377	0.269353	385.624	0.012307
40°23'	172074.8405	30.841962	6478.9835	0.036925	2.980	
			27470.7989	0.269486	386.042	0.012307
40°24'	173925.3582	30.842052	6481.1990	0.036916	2.979	
			27486.9680	0.269619	386.460	0.012307
40°25'	175775.8813	30.842141	6483.4140	0.036907	2.979	
			27503.1452	0.269753	386.880	0.012307
40°26'	177626.4098	30.842230	6485.6284	0.036898	2.979	
			27519.3304	0.269886	387.299	0.012307
40°27'	179476.9436	30.842319	6487.8422	0.036888	2.978	
			27535.5235	0.270020	387.720	0.012307
40°28'	181327.4827	30.842408	6490.0555	0.036879	2.978	
			27551.7247	0.270153	388.140	0.012306
40°29'	183178.0272	30.842498	6492.2683	0.036870	2.977	
			27567.9339	0.270287	388.562	0.012306
40°30'	185028.5771	30.842587	6494.4805	0.036861	2.977	
			27584.1511	0.270421	388.984	0.012306
40°31'	186879.1323	30.842676	6496.6921	0.036852	2.976	
			27600.3764	0.270555	389.406	0.012306
40°32'	188729.6928	30.842765	6498.9032	0.036843	2.976	
			27616.6097	0.270690	389.829	0.012306
40°33'	190580.2588	30.842855	6501.1138	0.036833	2.975	
			27632.8511	0.270824	390.252	0.012306
40°34'	192430.8300	30.842944	6503.3238	0.036824	2.975	
			27649.1005	0.270959	390.677	0.012306
40°35'	194281.4067	30.843033	6505.5333	0.036815	2.974	
			27665.3580	0.271093	391.101	0.012306
40°36'	196131.9886	30.843122	6507.7422	0.036806	2.974	
			27681.6236	0.271228	391.526	0.012306
40°37'	197982.5760	30.843212	6509.9505	0.036797	2.973	
			27697.8973	0.271363	391.952	0.012306

40°38'	199833.1687	30.843301	6512.1583	0.036788	2.973	
			27714.1791	0.271498	392.378	0.012306
40°39'	201683.7667	30.843390	6514.3656	0.036778	2.972	
			27730.4690	0.271634	392.805	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°40'	203534.3702	30.843480	6516.5723	0.036769	2.972	
			27746.7670	0.271769	393.233	0.012306
40°41'	205384.9789	30.843569	6518.7784	0.036760	2.971	
			27763.0731	0.271905	393.661	0.012306
40°42'	207235.5931	30.843658	6520.9840	0.036751	2.971	
			27779.3874	0.272040	394.089	0.012306
40°43'	209086.2126	30.843748	6523.1891	0.036742	2.970	
			27795.7098	0.272176	394.518	0.012306
40°44'	210936.8374	30.843837	6525.3936	0.036732	2.970	
			27812.0404	0.272312	394.948	0.012306
40°45'	212787.4676	30.843926	6527.5975	0.036723	2.969	
			27828.3792	0.272449	395.378	0.012306
40°46'	214638.1032	30.844016	6529.8009	0.036714	2.969	
			27844.7261	0.272585	395.809	0.012306
40°47'	216488.7441	30.844105	6532.0038	0.036705	2.968	
			27861.0812	0.272721	396.241	0.012306
40°48'	218339.3904	30.844194	6534.2060	0.036696	2.968	
			27877.4445	0.272858	396.672	0.012306
40°49'	220190.0421	30.844284	6536.4078	0.036686	2.967	
			27893.8160	0.272995	397.105	0.012305
40°50'	222040.6991	30.844373	6538.6090	0.036677	2.967	
			27910.1956	0.273132	397.538	0.012305
40°51'	223891.3615	30.844463	6540.8096	0.036668	2.966	
			27926.5836	0.273269	397.972	0.012305
40°52'	225742.0293	30.844552	6543.0097	0.036659	2.966	
			27942.9797	0.273406	398.406	0.012305
40°53'	227592.7024	30.844641	6545.2092	0.036649	2.965	
			27959.3841	0.273544	398.841	0.012305
40°54'	229443.3809	30.844731	6547.4081	0.036640	2.965	
			27975.7967	0.273681	399.276	0.012305
40°55'	231294.0648	30.844820	6549.6065	0.036631	2.964	
			27992.2175	0.273819	399.712	0.012305
40°56'	233144.7540	30.844910	6551.8044	0.036622	2.964	
			28008.6467	0.273957	400.148	0.012305
40°57'	234995.4486	30.844999	6554.0017	0.036612	2.963	
			28025.0841	0.274095	400.586	0.012305
40°58'	236846.1485	30.845089	6556.1985	0.036603	2.963	
			28041.5297	0.274233	401.023	0.012305
40°59'	238696.8538	30.845178	6558.3947	0.036594	2.962	
			28057.9837	0.274371	401.461	0.012305

41° 0'	240547.5645	30.845268	6560.5903	0.036585	2.962	
			28074.4460	0.274510	401.900	0.012305
41° 1'	242398.2806	30.845357	6562.7854	0.036575	2.961	
			28090.9165	0.274648	402.340	0.012305

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41° 2'	244249.0020	30.845447	6564.9799	0.036566	2.960	
			28107.3954	0.274787	402.780	0.012305
41° 3'	246099.7288	30.845536	6567.1739	0.036557	2.960	
			28123.8827	0.274926	403.220	0.012305
41° 4'	247950.4610	30.845626	6569.3673	0.036548	2.959	
			28140.3782	0.275065	403.661	0.012305
41° 5'	249801.1985	30.845715	6571.5602	0.036538	2.959	
			28156.8821	0.275204	404.103	0.012305
41° 6'	251651.9414	30.845805	6573.7525	0.036529	2.958	
			28173.3943	0.275343	404.545	0.012305
41° 7'	253502.6897	30.845894	6575.9442	0.036520	2.958	
			28189.9149	0.275483	404.988	0.012305
41° 8'	255353.4434	30.845984	6578.1354	0.036511	2.957	
			28206.4439	0.275623	405.432	0.012305
41° 9'	257204.2024	30.846073	6580.3260	0.036501	2.957	
			28222.9813	0.275762	405.876	0.012305
41°10'	259054.9668	30.846163	6582.5161	0.036492	2.956	
			28239.5270	0.275902	406.320	0.012304
41°11'	260905.7366	30.846252	6584.7056	0.036483	2.956	
			28256.0812	0.276043	406.766	0.012304
41°12'	262756.5117	30.846342	6586.8946	0.036473	2.955	
			28272.6437	0.276183	407.212	0.012304
41°13'	264607.2922	30.846432	6589.0830	0.036464	2.955	
			28289.2147	0.276323	407.658	0.012304
41°14'	266458.0781	30.846521	6591.2709	0.036455	2.954	
			28305.7941	0.276464	408.105	0.012304
41°15'	268308.8694	30.846611	6593.4582	0.036446	2.954	
			28322.3819	0.276605	408.553	0.012304
41°16'	270159.6660	30.846700	6595.6449	0.036436	2.953	
			28338.9782	0.276746	409.001	0.012304
41°17'	272010.4681	30.846790	6597.8311	0.036427	2.952	
			28355.5830	0.276887	409.450	0.012304
41°18'	273861.2755	30.846880	6600.0167	0.036418	2.952	
			28372.1962	0.277028	409.899	0.012304
41°19'	275712.0882	30.846969	6602.2017	0.036408	2.951	
			28388.8178	0.277169	410.349	0.012304
41°20'	277562.9064	30.847059	6604.3862	0.036399	2.951	
			28405.4480	0.277311	410.800	0.012304
41°21'	279413.7299	30.847148	6606.5702	0.036390	2.950	
			28422.0866	0.277452	411.251	0.012304

41°22'	281264.5588	30.847238	6608.7536	0.036380	2.950	
			28438.7338	0.277594	411.703	0.012304
41°23'	283115.3931	30.847328	6610.9364	0.036371	2.949	
			28455.3894	0.277736	412.155	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEW JERSEY Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°24'	284966.2328	30.847417	6613.1187	0.036362	2.949	
			28472.0536	0.277878	412.608	0.012304
41°25'	286817.0778	30.847507	6615.3004	0.036352	2.948	
			28488.7263	0.278021	413.062	0.012304
41°26'	288667.9282	30.847597	6617.4815	0.036343	2.947	
			28505.4075	0.278163	413.516	0.012304
41°27'	290518.7840	30.847686	6619.6621	0.036334	2.947	
			28522.0973	0.278306	413.971	0.012304
41°28'	292369.6452	30.847776	6621.8421	0.036324	2.946	
			28538.7957	0.278449	414.426	0.012304
41°29'	294220.5118	30.847866	6624.0216	0.036315	2.946	
			28555.5026	0.278592	414.882	0.012304
41°30'	296071.3837	30.847955	6626.2005	0.036306	2.945	
			28572.2181	0.278735	415.339	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0011

TRANSVERSE MERCATOR PROJECTION

TABLES FOR NEW MEXICO COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW MEXICO EAST
ZONE CODE: 3001

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 31° 0' (latitude of grid origin)
λ_b = 104°20' (longitude of origin and Central Meridian, CM)
E_0 = 165000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999909 (scale along Central Meridian)
latitude range from ϕ_{min} = 31°00' to ϕ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 31°15'23".54600
LONGITUDE: 105°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.31637550
TABULAR (I) = 27715.3842
23.54600 sec = 725.1111
SECOND DIFF = -0.0006
(I) = 28440.4947
TABULAR (II) = 3327.0904
23.54600 sec = 0.3963
(II) = 3327.4868
TABULAR (III) = 2.2273
$N = (I) + (II)p^2 + (III)p^4$ = 28773.577 m

TABULAR (IV) = 264570.9437
23.54600 sec = -18.2415
SECOND DIFF = 0.0027
(IV) = 264552.7048
TABULAR (V) = 48.2302
23.54600 sec = -0.0244
(V) = 48.2058
TABULAR (VI) = -0.0099
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -83699.521 m
$E = E_0 + E'$ = 81300.479 m

TABULAR (XII) = 5187.7326
23.54600 sec = 0.9758
(XII) = 5188.7084
TABULAR (XIII) = 3.0147
$C = (XII)p + (XIII)p^3$ = -1641".68

$q = 10^{-6} E'$ = -0.08369952
TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99999547

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.08369952$
$\phi' = 31°15'34''.36193$

TABULAR	(VII) =	1543.4532
34.36193 sec	=	0.5768
	(VII) =	1544.0300
TABULAR	(VIII) =	19.2338
34.36193 sec	=	0.0098
	(VIII) =	19.2435

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

TABULAR	(IX) =	37797.0455
34.36193 sec	=	3.8038
SECOND DIFF	=	-0.0007
	(IX) =	37800.8486
TABULAR	(X) =	269.2197
34.36193 sec	=	0.1123
	(X) =	269.3320
TABULAR	(XI) =	3.5302
34.36193 sec	=	0.0027
	(XI) =	3.5330

$\lambda = \lambda_0 - (IX)q + (X)q^3 + (XI)q^5 = 105°12'43''.75497$

TABULAR	(XIV) =	19608.0965
34.36193 sec	=	7.3569
SECOND DIFF	=	-0.0006
	(XIV) =	19615.4527
TABULAR	(XV) =	218.6743
34.36193 sec	=	0.1264
	(XV) =	218.8008

$C = (XIV)q - (XV)q^3 = -1641''.68$

TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99999547$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW MEXICO CENTRAL
ZONE CODE: 3002

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_o = 31° 0' (latitude of grid origin)
λ_o = 106°15' (longitude of origin and Central Meridian, CM)
E_o = 500000 m (easting coordinate of grid origin)
N_o = 0 m (northing coordinate of grid origin)
k_o = 0.999900 (scale along Central Meridian)
latitude range from ϕ_{min} = 31°00' to ϕ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  31°15'23".54600
  LONGITUDE: 107°12'43".75500

     p = 10^-4 Δλ  =  -0.34637550
TABULAR  (   I) =   27715.1322
   23.54600 sec =     725.1045
   SECOND DIFF  =      -0.0006
         (   I) =   28440.2361
TABULAR  (  II) =    3327.0601
   23.54600 sec =       0.3963
         (  II) =    3327.4566
TABULAR  ( III) =       2.2272
 N = (I) + (II)p^2 + (III)p^4 =  28839.483 m


TABULAR  (  IV) =  264568.5383
   23.54600 sec =     -18.2414
   SECOND DIFF  =       0.0027
         (  IV) =  264550.2996
TABULAR  (   V) =      48.2298
   23.54600 sec =      -0.0244
         (   V) =      48.2054
TABULAR  (  VI) =      -0.0099
 E' = (IV)p +(V)p^3 + (VI)p^5 = -91635.745 m
 E = E_0 + E' =                 408364.255 m


TABULAR  ( XII) =    5187.7326
   23.54600 sec =       0.9758
         ( XII) =    5188.7084
TABULAR  (XIII) =       3.0147
C = (XII)p + (XIII)p^3 =    -1797".37


  q  = 10^-5 E'   =  -0.09163575
TABULAR  ( XVI) =     0.012332
k = k_0(1 + (XVI)q^2 + 0.00003q^4) =  1.00000354
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.09163575$
$\phi' = 31°15'36''.51057$

TABULAR	(VII) =	1543.4813
36.51057 sec	=	0.6129
	(VII) =	1544.0942
TABULAR	(VIII) =	19.2345
36.51057 sec	=	0.0104
	(VIII) =	19.2448

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

TABULAR	(IX) =	37797.3892
36.51057 sec	=	4.0416
SECOND DIFF	=	-0.0007
	(IX) =	37801.4301
TABULAR	(X) =	269.2271
36.51057 sec	=	0.1193
	(X) =	269.3464
TABULAR	(XI) =	3.5304
36.51057 sec	=	0.0029
	(XI) =	3.5333

$\lambda = \lambda_0 - (IX)q + (X)q^3 + (XI)q^5 = 107°12'43''.75495$

TABULAR	(XIV) =	19608.2747
36.51057 sec	=	7.8169
SECOND DIFF	=	-0.0005
	(XIV) =	19616.0911
TABULAR	(XV) =	218.6803
36.51057 sec	=	0.1343
	(XV) =	218.8146

$C = (XIV)q - (XV)q^3 = -1797''.37$

TABULAR	(XVI) =	0.012332

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00000354$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW MEXICO WEST
ZONE CODE: 3003

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_0 = 31° 0' (latitude of grid origin)
λ_0 = 107°50' (longitude of origin and Central Meridian, CM)
E_0 = 830000 m (easting coordinate of grid origin)
N_0 = 0 m (northing coordinate of grid origin)
k_0 = 0.999917 (scale along Central Meridian)
latitude range from ϕ_{min} = 31°00' to ϕ_{max} = 37°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

```
   LATITUDE:  31°15'23".54600
  LONGITUDE: 108°12'43".75500

     p = 10^-4 Δλ  =  -0.13637550
TABULAR  (   I) =   27715.5942
   23.54600 sec =     725.1166
   SECOND DIFF  =      -0.0006
         (   I) =   28440.7102
TABULAR  (  II) =    3327.1156
   23.54600 sec =       0.3963
         (  II) =    3327.5121
TABULAR  ( III) =       2.2273
 N = (I) + (II)p^2 + (III)p^4 =  28502.597 m


TABULAR  (  IV) =  264572.9482
   23.54600 sec =     -18.2417
   SECOND DIFF  =       0.0027
         (  IV) =  264554.7092
TABULAR  (   V) =      48.2306
   23.54600 sec =      -0.0244
         (   V) =      48.2062
TABULAR  (  VI) =      -0.0099
 E' = (IV)p +(V)p^3 + (VI)p^5 = -36078.903 m
 E = E0 + E' =                 793921.097 m


TABULAR  ( XII) =    5187.7326
   23.54600 sec =       0.9758
         ( XII) =    5188.7084
TABULAR  (XIII) =       3.0147
C = (XII)p + (XIII)p^3 =     -707".62


  q  = 10^-6 E'   =  -0.03607890
TABULAR  ( XVI) =     0.012331
k = k0(1 + (XVI)q^2 + 0.00003q^4) =  0.99993272
```

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.03607890$
$\phi' = 31°15'25''.55559$

TABULAR	(VII) =	1543.4298
25.55559 sec	=	0.4290
	(VII) =	1543.8588
TABULAR	(VIII) =	19.2332
25.55559 sec	=	0.0073
	(VIII) =	19.2404

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 31°15'23''.54600$

TABULAR	(IX) =	37796.7592
25.55559 sec	=	2.8289
SECOND DIFF	=	-0.0007
	(IX) =	37799.5874
TABULAR	(X) =	269.2136
25.55559 sec	=	0.0835
	(X) =	269.2971
TABULAR	(XI) =	3.5301
25.55559 sec	=	0.0020
	(XI) =	3.5321

$\lambda = \lambda_0 - (IX)q + (X)q^3 + (XI)q^5 = 108°12'43''.75500$

TABULAR	(XIV) =	19607.9479
25.55559 sec	=	5.4714
SECOND DIFF	=	-0.0006
	(XIV) =	19613.4187
TABULAR	(XV) =	218.6694
25.55559 sec	=	0.0940
	(XV) =	218.7634

$C = (XIV)q - (XV)q^3 = -707''.62$

TABULAR (XVI) = 0.012331
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99993272$

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31° 0'	0.0000	30.794313	3311.8067	0.017113	2.232
	265265.5005	-0.769112	49.1633	-0.001037	-0.009
31° 1'	1847.6588	30.794393	3312.8334	0.017094	2.232
	265219.3537	-0.769487	49.1011	-0.001037	-0.009
31° 2'	3695.3224	30.794473	3313.8591	0.017075	2.232
	265173.1845	-0.769861	49.0389	-0.001037	-0.009
31° 3'	5542.9907	30.794552	3314.8836	0.017057	2.231
	265126.9929	-0.770235	48.9767	-0.001037	-0.009
31° 4'	7390.6639	30.794632	3315.9070	0.017038	2.231
	265080.7788	-0.770609	48.9145	-0.001037	-0.009
31° 5'	9238.3418	30.794712	3316.9293	0.017019	2.231
	265034.5423	-0.770983	48.8523	-0.001037	-0.009
31° 6'	11086.0245	30.794791	3317.9504	0.017001	2.230
	264988.2833	-0.771357	48.7901	-0.001037	-0.01
31° 7'	12933.7120	30.794871	3318.9705	0.016982	2.230
	264942.0019	-0.771730	48.7279	-0.001037	-0.01
31° 8'	14781.4042	30.794951	3319.9894	0.016963	2.230
	264895.6981	-0.772104	48.6657	-0.001037	-0.01
31° 9'	16629.1013	30.795031	3321.0072	0.016945	2.229
	264849.3718	-0.772478	48.6035	-0.001037	-0.01
31°10'	18476.8031	30.795110	3322.0238	0.016926	2.229
	264803.0232	-0.772851	48.5413	-0.001037	-0.01
31°11'	20324.5098	30.795190	3323.0394	0.016907	2.229
	264756.6521	-0.773225	48.4791	-0.001037	-0.01
31°12'	22172.2212	30.795270	3324.0538	0.016888	2.228
	264710.2586	-0.773598	48.4169	-0.001037	-0.01
31°13'	24019.9374	30.795350	3325.0671	0.016870	2.228
	264663.8427	-0.773972	48.3546	-0.001037	-0.01
31°14'	25867.6584	30.795430	3326.0793	0.016851	2.228
	264617.4044	-0.774345	48.2924	-0.001037	-0.01
31°15'	27715.3842	30.795510	3327.0904	0.016832	2.227
	264570.9437	-0.774718	48.2302	-0.001037	-0.01
31°16'	29563.1148	30.795590	3328.1003	0.016814	2.227
	264524.4606	-0.775092	48.1680	-0.001037	-0.01
31°17'	31410.8502	30.795670	3329.1091	0.016795	2.227
	264477.9551	-0.775465	48.1058	-0.001037	-0.010
31°18'	33258.5904	30.795750	3330.1168	0.016776	2.226
	264431.4272	-0.775838	48.0435	-0.001037	-0.010
31°19'	35106.3353	30.795830	3331.1234	0.016757	2.226
	264384.8769	-0.776211	47.9813	-0.001037	-0.010
31°20'	36954.0851	30.795910	3332.1288	0.016739	2.225
	264338.3042	-0.776584	47.9191	-0.001037	-0.010
31°21'	38801.8397	30.795990	3333.1331	0.016720	2.225
	264291.7092	-0.776957	47.8569	-0.001037	-0.010

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0016	0.0025	0.0028

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°22'	40649.5991	30.796070	3334.1363	0.016701	2.225
	264245.0918	-0.777330	47.7946	-0.001037	-0.010
31°23'	42497.3633	30.796150	3335.1384	0.016682	2.224
	264198.4520	-0.777703	47.7324	-0.001037	-0.010
31°24'	44345.1323	30.796230	3336.1393	0.016664	2.224
	264151.7898	-0.778075	47.6702	-0.001037	-0.010
31°25'	46192.9062	30.796311	3337.1391	0.016645	2.224
	264105.1053	-0.778448	47.6080	-0.001037	-0.010
31°26'	48040.6848	30.796391	3338.1378	0.016626	2.223
	264058.3984	-0.778821	47.5457	-0.001037	-0.010
31°27'	49888.4682	30.796471	3339.1354	0.016607	2.223
	264011.6692	-0.779193	47.4835	-0.001037	-0.010
31°28'	51736.2565	30.796551	3340.1318	0.016588	2.223
	263964.9176	-0.779566	47.4213	-0.001037	-0.011
31°29'	53584.0496	30.796631	3341.1271	0.016570	2.222
	263918.1437	-0.779938	47.3590	-0.001037	-0.011
31°30'	55431.8475	30.796712	3342.1213	0.016551	2.222
	263871.3474	-0.780310	47.2968	-0.001037	-0.011
31°31'	57279.6502	30.796792	3343.1143	0.016532	2.221
	263824.5288	-0.780683	47.2345	-0.001037	-0.011
31°32'	59127.4577	30.796872	3344.1063	0.016513	2.221
	263777.6878	-0.781055	47.1723	-0.001037	-0.011
31°33'	60975.2700	30.796953	3345.0970	0.016494	2.221
	263730.8245	-0.781427	47.1101	-0.001037	-0.011
31°34'	62823.0872	30.797033	3346.0867	0.016475	2.220
	263683.9389	-0.781799	47.0478	-0.001037	-0.011
31°35'	64670.9092	30.797114	3347.0752	0.016457	2.220
	263637.0309	-0.782171	46.9856	-0.001037	-0.011
31°36'	66518.7360	30.797194	3348.0626	0.016438	2.220
	263590.1007	-0.782543	46.9234	-0.001037	-0.011
31°37'	68366.5677	30.797275	3349.0489	0.016419	2.219
	263543.1481	-0.782915	46.8611	-0.001037	-0.011
31°38'	70214.4041	30.797355	3350.0340	0.016400	2.219
	263496.1732	-0.783287	46.7989	-0.001037	-0.011
31°39'	72062.2454	30.797436	3351.0180	0.016381	2.218
	263449.1760	-0.783659	46.7366	-0.001037	-0.011
31°40'	73910.0916	30.797516	3352.0009	0.016362	2.218
	263402.1565	-0.784030	46.6744	-0.001037	-0.011
31°41'	75757.9425	30.797597	3352.9826	0.016343	2.218
	263355.1146	-0.784402	46.6122	-0.001037	-0.011
31°42'	77605.7983	30.797677	3353.9633	0.016325	2.217
	263308.0505	-0.784774	46.5499	-0.001037	-0.011
31°43'	79453.6590	30.797758	3354.9427	0.016306	2.217
	263260.9641	-0.785145	46.4877	-0.001037	-0.011

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
31°44'	81301.5244	30.797838	3355.9211	0.016287	2.216
	263213.8554	-0.785517	46.4254	-0.001037	-0.011
31°45'	83149.3948	30.797919	3356.8983	0.016268	2.216
	263166.7244	-0.785888	46.3632	-0.001037	-0.011
31°46'	84997.2699	30.798000	3357.8744	0.016249	2.216
	263119.5711	-0.786259	46.3009	-0.001037	-0.011
31°47'	86845.1499	30.798081	3358.8493	0.016230	2.215
	263072.3956	-0.786631	46.2387	-0.001037	-0.011
31°48'	88693.0347	30.798161	3359.8231	0.016211	2.215
	263025.1977	-0.787002	46.1765	-0.001037	-0.011
31°49'	90540.9244	30.798242	3360.7958	0.016192	2.214
	262977.9776	-0.787373	46.1142	-0.001037	-0.011
31°50'	92388.8189	30.798323	3361.7673	0.016173	2.214
	262930.7352	-0.787744	46.0520	-0.001037	-0.012
31°51'	94236.7183	30.798404	3362.7377	0.016154	2.214
	262883.4706	-0.788115	45.9897	-0.001037	-0.012
31°52'	96084.6225	30.798484	3363.7070	0.016136	2.213
	262836.1837	-0.788486	45.9275	-0.001037	-0.012
31°53'	97932.5316	30.798565	3364.6751	0.016117	2.213
	262788.8746	-0.788857	45.8652	-0.001037	-0.012
31°54'	99780.4455	30.798646	3365.6421	0.016098	2.212
	262741.5431	-0.789228	45.8030	-0.001037	-0.012
31°55'	101628.3642	30.798727	3366.6080	0.016079	2.212
	262694.1895	-0.789598	45.7408	-0.001037	-0.012
31°56'	103476.2879	30.798808	3367.5727	0.016060	2.212
	262646.8136	-0.789969	45.6785	-0.001037	-0.012
31°57'	105324.2163	30.798889	3368.5363	0.016041	2.211
	262599.4154	-0.790340	45.6163	-0.001037	-0.012
31°58'	107172.1497	30.798970	3369.4987	0.016022	2.211
	262551.9951	-0.790710	45.5540	-0.001037	-0.012
31°59'	109020.0879	30.799051	3370.4600	0.016003	2.210
	262504.5525	-0.791081	45.4918	-0.001037	-0.012
32° 0'	110868.0309	30.799132	3371.4202	0.015984	2.210
	262457.0876	-0.791451	45.4295	-0.001037	-0.012
32° 1'	112715.9788	30.799213	3372.3792	0.015965	2.210
	262409.6005	-0.791822	45.3673	-0.001037	-0.012
32° 2'	114563.9316	30.799294	3373.3371	0.015946	2.209
	262362.0913	-0.792192	45.3051	-0.001037	-0.012
32° 3'	116411.8892	30.799375	3374.2939	0.015927	2.209
	262314.5597	-0.792562	45.2428	-0.001037	-0.012
32° 4'	118259.8517	30.799456	3375.2495	0.015908	2.208
	262267.0060	-0.792932	45.1806	-0.001037	-0.012
32° 5'	120107.8191	30.799537	3376.2040	0.015889	2.208
	262219.4301	-0.793302	45.1184	-0.001037	-0.012

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32° 6'	121955.7913	30.799618	3377.1573	0.015870	2.207
	262171.8319	-0.793672	45.0561	-0.001037	-0.012
32° 7'	123803.7684	30.799700	3378.1095	0.015851	2.207
	262124.2116	-0.794042	44.9939	-0.001037	-0.012
32° 8'	125651.7504	30.799781	3379.0605	0.015832	2.207
	262076.5691	-0.794412	44.9317	-0.001037	-0.012
32° 9'	127499.7373	30.799862	3380.0105	0.015813	2.206
	262028.9043	-0.794782	44.8694	-0.001037	-0.012
32°10'	129347.7290	30.799943	3380.9592	0.015794	2.206
	261981.2174	-0.795152	44.8072	-0.001037	-0.012
32°11'	131195.7256	30.800024	3381.9069	0.015775	2.205
	261933.5083	-0.795522	44.7450	-0.001037	-0.012
32°12'	133043.7270	30.800106	3382.8533	0.015756	2.205
	261885.7770	-0.795891	44.6827	-0.001037	-0.013
32°13'	134891.7334	30.800187	3383.7987	0.015737	2.204
	261838.0235	-0.796261	44.6205	-0.001037	-0.013
32°14'	136739.7446	30.800268	3384.7429	0.015718	2.204
	261790.2479	-0.796630	44.5583	-0.001037	-0.013
32°15'	138587.7607	30.800350	3385.6859	0.015699	2.203
	261742.4500	-0.797000	44.4960	-0.001037	-0.013
32°16'	140435.7817	30.800431	3386.6279	0.015680	2.203
	261694.6300	-0.797369	44.4338	-0.001037	-0.013
32°17'	142283.8076	30.800513	3387.5686	0.015660	2.203
	261646.7879	-0.797739	44.3716	-0.001037	-0.013
32°18'	144131.8383	30.800594	3388.5082	0.015641	2.202
	261598.9236	-0.798108	44.3094	-0.001037	-0.013
32°19'	145979.8740	30.800675	3389.4467	0.015622	2.202
	261551.0371	-0.798477	44.2471	-0.001037	-0.013
32°20'	147827.9145	30.800757	3390.3841	0.015603	2.201
	261503.1285	-0.798846	44.1849	-0.001037	-0.013
32°21'	149675.9599	30.800838	3391.3203	0.015584	2.201
	261455.1977	-0.799215	44.1227	-0.001037	-0.013
32°22'	151524.0102	30.800920	3392.2553	0.015565	2.200
	261407.2448	-0.799584	44.0605	-0.001037	-0.013
32°23'	153372.0654	30.801001	3393.1892	0.015546	2.200
	261359.2697	-0.799953	43.9982	-0.001037	-0.013
32°24'	155220.1255	30.801083	3394.1220	0.015527	2.199
	261311.2725	-0.800322	43.9360	-0.001037	-0.013
32°25'	157068.1905	30.801165	3395.0536	0.015508	2.199
	261263.2532	-0.800691	43.8738	-0.001037	-0.013
32°26'	158916.2604	30.801246	3395.9840	0.015489	2.198
	261215.2118	-0.801060	43.8116	-0.001037	-0.013
32°27'	160764.3351	30.801328	3396.9133	0.015469	2.198
	261167.1482	-0.801428	43.7494	-0.001037	-0.013

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0025	0.0028

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°28'	162612.4148	30.801410	3397.8415	0.015450	2.197
	261119.0625	-0.801797	43.6872	-0.001037	-0.013
32°29'	164460.4994	30.801491	3398.7685	0.015431	2.197
	261070.9547	-0.802165	43.6250	-0.001037	-0.013
32°30'	166308.5889	30.801573	3399.6944	0.015412	2.197
	261022.8247	-0.802534	43.5628	-0.001037	-0.013
32°31'	168156.6832	30.801655	3400.6191	0.015393	2.196
	260974.6727	-0.802902	43.5005	-0.001037	-0.013
32°32'	170004.7825	30.801736	3401.5427	0.015374	2.196
	260926.4986	-0.803271	43.4383	-0.001037	-0.013
32°33'	171852.8867	30.801818	3402.4651	0.015355	2.195
	260878.3023	-0.803639	43.3761	-0.001037	-0.013
32°34'	173700.9958	30.801900	3403.3864	0.015335	2.195
	260830.0840	-0.804007	43.3139	-0.001037	-0.013
32°35'	175549.1098	30.801982	3404.3065	0.015316	2.194
	260781.8435	-0.804375	43.2517	-0.001037	-0.014
32°36'	177397.2287	30.802064	3405.2255	0.015297	2.194
	260733.5810	-0.804743	43.1895	-0.001037	-0.014
32°37'	179245.3525	30.802145	3406.1433	0.015278	2.193
	260685.2964	-0.805112	43.1273	-0.001037	-0.014
32°38'	181093.4812	30.802227	3407.0600	0.015259	2.193
	260636.9897	-0.805479	43.0651	-0.001037	-0.014
32°39'	182941.6148	30.802309	3407.9755	0.015240	2.192
	260588.6609	-0.805847	43.0030	-0.001036	-0.014
32°40'	184789.7534	30.802391	3408.8899	0.015220	2.192
	260540.3101	-0.806215	42.9408	-0.001036	-0.014
32°41'	186637.8969	30.802473	3409.8031	0.015201	2.191
	260491.9372	-0.806583	42.8786	-0.001036	-0.014
32°42'	188486.0453	30.802555	3410.7152	0.015182	2.191
	260443.5422	-0.806951	42.8164	-0.001036	-0.014
32°43'	190334.1986	30.802637	3411.6261	0.015163	2.190
	260395.1252	-0.807318	42.7542	-0.001036	-0.014
32°44'	192182.3568	30.802719	3412.5359	0.015144	2.190
	260346.6861	-0.807686	42.6920	-0.001036	-0.014
32°45'	194030.5199	30.802801	3413.4445	0.015124	2.189
	260298.2249	-0.808053	42.6298	-0.001036	-0.014
32°46'	195878.6880	30.802883	3414.3520	0.015105	2.189
	260249.7417	-0.808421	42.5677	-0.001036	-0.014
32°47'	197726.8610	30.802965	3415.2583	0.015086	2.188
	260201.2365	-0.808788	42.5055	-0.001036	-0.014
32°48'	199575.0389	30.803047	3416.1635	0.015067	2.188
	260152.7092	-0.809155	42.4433	-0.001036	-0.014
32°49'	201423.2217	30.803129	3417.0675	0.015047	2.187
	260104.1599	-0.809523	42.3812	-0.001036	-0.014

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0028

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
32°50'	203271.4095	30.803212	3417.9703	0.015028	2.187
	260055.5885	-0.809890	42.3190	-0.001036	-0.014
32°51'	205119.6022	30.803294	3418.8720	0.015009	2.186
	260006.9951	-0.810257	42.2568	-0.001036	-0.014
32°52'	206967.7998	30.803376	3419.7725	0.014990	2.186
	259958.3797	-0.810624	42.1947	-0.001036	-0.014
32°53'	208816.0024	30.803458	3420.6719	0.014970	2.185
	259909.7423	-0.810991	42.1325	-0.001036	-0.014
32°54'	210664.2098	30.803540	3421.5701	0.014951	2.185
	259861.0828	-0.811358	42.0703	-0.001036	-0.014
32°55'	212512.4223	30.803623	3422.4672	0.014932	2.184
	259812.4013	-0.811725	42.0082	-0.001036	-0.014
32°56'	214360.6396	30.803705	3423.3631	0.014913	2.184
	259763.6978	-0.812091	41.9460	-0.001036	-0.014
32°57'	216208.8619	30.803787	3424.2579	0.014893	2.183
	259714.9724	-0.812458	41.8839	-0.001036	-0.014
32°58'	218057.0891	30.803869	3425.1515	0.014874	2.183
	259666.2249	-0.812825	41.8217	-0.001036	-0.014
32°59'	219905.3213	30.803952	3426.0439	0.014855	2.182
	259617.4554	-0.813191	41.7596	-0.001036	-0.015
33° 0'	221753.5584	30.804034	3426.9352	0.014836	2.182
	259568.6639	-0.813558	41.6975	-0.001036	-0.015
33° 1'	223601.8005	30.804117	3427.8254	0.014816	2.181
	259519.8504	-0.813924	41.6353	-0.001036	-0.015
33° 2'	225450.0475	30.804199	3428.7143	0.014797	2.181
	259471.0150	-0.814291	41.5732	-0.001036	-0.015
33° 3'	227298.2994	30.804281	3429.6022	0.014778	2.180
	259422.1575	-0.814657	41.5111	-0.001035	-0.015
33° 4'	229146.5563	30.804364	3430.4888	0.014758	2.180
	259373.2781	-0.815023	41.4489	-0.001035	-0.015
33° 5'	230994.8181	30.804446	3431.3743	0.014739	2.179
	259324.3767	-0.815389	41.3868	-0.001035	-0.015
33° 6'	232843.0849	30.804529	3432.2587	0.014720	2.179
	259275.4533	-0.815756	41.3247	-0.001035	-0.015
33° 7'	234691.3566	30.804611	3433.1418	0.014700	2.178
	259226.5080	-0.816122	41.2626	-0.001035	-0.015
33° 8'	236539.6333	30.804694	3434.0239	0.014681	2.178
	259177.5407	-0.816488	41.2005	-0.001035	-0.015
33° 9'	238387.9149	30.804776	3434.9047	0.014662	2.177
	259128.5514	-0.816854	41.1383	-0.001035	-0.015
33°10'	240236.2015	30.804859	3435.7844	0.014642	2.176
	259079.5402	-0.817219	41.0762	-0.001035	-0.015
33°11'	242084.4931	30.804942	3436.6630	0.014623	2.176
	259030.5071	-0.817585	41.0141	-0.001035	-0.015

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°12'	243932.7896	30.805024	3437.5403	0.014604	2.175
	258981.4520	-0.817951	40.9520	-0.001035	-0.015
33°13'	245781.0910	30.805107	3438.4166	0.014584	2.175
	258932.3749	-0.818316	40.8899	-0.001035	-0.015
33°14'	247629.3974	30.805190	3439.2916	0.014565	2.174
	258883.2759	-0.818682	40.8278	-0.001035	-0.015
33°15'	249477.7088	30.805272	3440.1655	0.014546	2.174
	258834.1550	-0.819048	40.7657	-0.001035	-0.015
33°16'	251326.0251	30.805355	3441.0383	0.014526	2.173
	258785.0121	-0.819413	40.7036	-0.001035	-0.015
33°17'	253174.3464	30.805438	3441.9098	0.014507	2.173
	258735.8474	-0.819778	40.6416	-0.001035	-0.015
33°18'	255022.6727	30.805520	3442.7802	0.014487	2.172
	258686.6606	-0.820144	40.5795	-0.001035	-0.015
33°19'	256871.0039	30.805603	3443.6495	0.014468	2.172
	258637.4520	-0.820509	40.5174	-0.001035	-0.015
33°20'	258719.3401	30.805686	3444.5176	0.014449	2.171
	258588.2215	-0.820874	40.4553	-0.001035	-0.015
33°21'	260567.6813	30.805769	3445.3845	0.014429	2.170
	258538.9690	-0.821239	40.3933	-0.001034	-0.015
33°22'	262416.0274	30.805852	3446.2502	0.014410	2.170
	258489.6947	-0.821604	40.3312	-0.001034	-0.015
33°23'	264264.3785	30.805934	3447.1148	0.014390	2.169
	258440.3984	-0.821969	40.2691	-0.001034	-0.016
33°24'	266112.7346	30.806017	3447.9782	0.014371	2.169
	258391.0803	-0.822334	40.2071	-0.001034	-0.016
33°25'	267961.0956	30.806100	3448.8405	0.014352	2.168
	258341.7402	-0.822699	40.1450	-0.001034	-0.016
33°26'	269809.4616	30.806183	3449.7016	0.014332	2.168
	258292.3783	-0.823064	40.0830	-0.001034	-0.016
33°27'	271657.8326	30.806266	3450.5615	0.014313	2.167
	258242.9945	-0.823428	40.0209	-0.001034	-0.016
33°28'	273506.2086	30.806349	3451.4203	0.014293	2.167
	258193.5888	-0.823793	39.9589	-0.001034	-0.016
33°29'	275354.5895	30.806432	3452.2779	0.014274	2.166
	258144.1612	-0.824158	39.8968	-0.001034	-0.016
33°30'	277202.9754	30.806515	3453.1343	0.014254	2.165
	258094.7117	-0.824522	39.8348	-0.001034	-0.016
33°31'	279051.3663	30.806598	3453.9896	0.014235	2.165
	258045.2404	-0.824887	39.7728	-0.001034	-0.016
33°32'	280899.7622	30.806681	3454.8437	0.014216	2.164
	257995.7472	-0.825251	39.7107	-0.001034	-0.016
33°33'	282748.1631	30.806764	3455.6966	0.014196	2.164
	257946.2321	-0.825615	39.6487	-0.001034	-0.016

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°34'	284596.5689	30.806847	3456.5484	0.014177	2.163
	257896.6952	-0.825980	39.5867	-0.001034	-0.016
33°35'	286444.9798	30.806930	3457.3990	0.014157	2.163
	257847.1364	-0.826344	39.5247	-0.001033	-0.016
33°36'	288293.3956	30.807013	3458.2484	0.014138	2.162
	257797.5558	-0.826708	39.4627	-0.001033	-0.016
33°37'	290141.8164	30.807097	3459.0967	0.014118	2.161
	257747.9533	-0.827072	39.4007	-0.001033	-0.016
33°38'	291990.2422	30.807180	3459.9438	0.014099	2.161
	257698.3290	-0.827436	39.3387	-0.001033	-0.016
33°39'	293838.6730	30.807263	3460.7897	0.014079	2.160
	257648.6829	-0.827800	39.2767	-0.001033	-0.016
33°40'	295687.1088	30.807346	3461.6345	0.014060	2.160
	257599.0149	-0.828164	39.2147	-0.001033	-0.016
33°41'	297535.5495	30.807429	3462.4781	0.014040	2.159
	257549.3251	-0.828527	39.1527	-0.001033	-0.016
33°42'	299383.9953	30.807513	3463.3205	0.014021	2.159
	257499.6134	-0.828891	39.0907	-0.001033	-0.016
33°43'	301232.4461	30.807596	3464.1617	0.014001	2.158
	257449.8800	-0.829255	39.0287	-0.001033	-0.016
33°44'	303080.9018	30.807679	3465.0018	0.013982	2.157
	257400.1247	-0.829618	38.9668	-0.001033	-0.016
33°45'	304929.3626	30.807763	3465.8407	0.013962	2.157
	257350.3476	-0.829982	38.9048	-0.001033	-0.016
33°46'	306777.8283	30.807846	3466.6784	0.013943	2.156
	257300.5487	-0.830345	38.8428	-0.001033	-0.016
33°47'	308626.2991	30.807929	3467.5150	0.013923	2.156
	257250.7280	-0.830708	38.7809	-0.001033	-0.016
33°48'	310474.7748	30.808013	3468.3504	0.013904	2.155
	257200.8855	-0.831072	38.7189	-0.001032	-0.016
33°49'	312323.2556	30.808096	3469.1846	0.013884	2.154
	257151.0212	-0.831435	38.6570	-0.001032	-0.017
33°50'	314171.7413	30.808179	3470.0177	0.013865	2.154
	257101.1351	-0.831798	38.5950	-0.001032	-0.017
33°51'	316020.2321	30.808263	3470.8496	0.013845	2.153
	257051.2272	-0.832161	38.5331	-0.001032	-0.017
33°52'	317868.7279	30.808346	3471.6803	0.013826	2.153
	257001.2975	-0.832524	38.4712	-0.001032	-0.017
33°53'	319717.2286	30.808430	3472.5098	0.013806	2.152
	256951.3461	-0.832887	38.4092	-0.001032	-0.017
33°54'	321565.7344	30.808513	3473.3382	0.013786	2.151
	256901.3728	-0.833250	38.3473	-0.001032	-0.017
33°55'	323414.2452	30.808597	3474.1653	0.013767	2.151
	256851.3778	-0.833613	38.2854	-0.001032	-0.017

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
33°56'	325262.7610	30.808680	3474.9914	0.013747	2.150
	256801.3611	-0.833976	38.2235	-0.001032	-0.017
33°57'	327111.2818	30.808764	3475.8162	0.013728	2.150
	256751.3225	-0.834338	38.1616	-0.001032	-0.017
33°58'	328959.8077	30.808847	3476.6399	0.013708	2.149
	256701.2622	-0.834701	38.0997	-0.001032	-0.017
33°59'	330808.3385	30.808931	3477.4623	0.013689	2.148
	256651.1802	-0.835063	38.0378	-0.001032	-0.017
34° 0'	332656.8744	30.809015	3478.2837	0.013669	2.148
	256601.0764	-0.835426	37.9759	-0.001031	-0.017
34° 1'	334505.4153	30.809098	3479.1038	0.013649	2.147
	256550.9508	-0.835788	37.9140	-0.001031	-0.017
34° 2'	336353.9611	30.809182	3479.9228	0.013630	2.147
	256500.8035	-0.836151	37.8521	-0.001031	-0.017
34° 3'	338202.5121	30.809266	3480.7406	0.013610	2.146
	256450.6345	-0.836513	37.7902	-0.001031	-0.017
34° 4'	340051.0680	30.809349	3481.5572	0.013591	2.145
	256400.4437	-0.836875	37.7283	-0.001031	-0.017
34° 5'	341899.6290	30.809433	3482.3726	0.013571	2.145
	256350.2312	-0.837237	37.6665	-0.001031	-0.017
34° 6'	343748.1949	30.809517	3483.1869	0.013551	2.144
	256299.9969	-0.837599	37.6046	-0.001031	-0.017
34° 7'	345596.7659	30.809600	3483.9999	0.013532	2.143
	256249.7410	-0.837961	37.5428	-0.001031	-0.017
34° 8'	347445.3420	30.809684	3484.8119	0.013512	2.143
	256199.4633	-0.838323	37.4809	-0.001031	-0.017
34° 9'	349293.9230	30.809768	3485.6226	0.013493	2.142
	256149.1639	-0.838685	37.4191	-0.001031	-0.017
34°10'	351142.5091	30.809852	3486.4321	0.013473	2.142
	256098.8428	-0.839047	37.3572	-0.001031	-0.017
34°11'	352991.1002	30.809936	3487.2405	0.013453	2.141
	256048.5000	-0.839409	37.2954	-0.001030	-0.017
34°12'	354839.6964	30.810020	3488.0477	0.013434	2.140
	255998.1355	-0.839770	37.2336	-0.001030	-0.017
34°13'	356688.2975	30.810103	3488.8537	0.013414	2.140
	255947.7492	-0.840132	37.1718	-0.001030	-0.017
34°14'	358536.9037	30.810187	3489.6586	0.013394	2.139
	255897.3413	-0.840493	37.1099	-0.001030	-0.017
34°15'	360385.5150	30.810271	3490.4622	0.013375	2.138
	255846.9117	-0.840855	37.0481	-0.001030	-0.018
34°16'	362234.1313	30.810355	3491.2647	0.013355	2.138
	255796.4604	-0.841216	36.9863	-0.001030	-0.018
34°17'	364082.7526	30.810439	3492.0660	0.013335	2.137
	255745.9875	-0.841578	36.9245	-0.001030	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°18'	365931.3789	30.810523	3492.8661	0.013316	2.137
	255695.4928	-0.841939	36.8627	-0.001030	-0.018
34°19'	367780.0103	30.810607	3493.6651	0.013296	2.136
	255644.9765	-0.842300	36.8010	-0.001030	-0.018
34°20'	369628.6467	30.810691	3494.4628	0.013276	2.135
	255594.4385	-0.842661	36.7392	-0.001030	-0.018
34°21'	371477.2882	30.810775	3495.2594	0.013257	2.135
	255543.8788	-0.843022	36.6774	-0.001029	-0.018
34°22'	373325.9347	30.810859	3496.0548	0.013237	2.134
	255493.2975	-0.843383	36.6156	-0.001029	-0.018
34°23'	375174.5862	30.810943	3496.8490	0.013217	2.133
	255442.6945	-0.843744	36.5539	-0.001029	-0.018
34°24'	377023.2428	30.811027	3497.6421	0.013198	2.133
	255392.0699	-0.844105	36.4921	-0.001029	-0.018
34°25'	378871.9045	30.811111	3498.4339	0.013178	2.132
	255341.4236	-0.844466	36.4304	-0.001029	-0.018
34°26'	380720.5712	30.811196	3499.2246	0.013158	2.131
	255290.7556	-0.844826	36.3686	-0.001029	-0.018
34°27'	382569.2429	30.811280	3500.0141	0.013138	2.131
	255240.0661	-0.845187	36.3069	-0.001029	-0.018
34°28'	384417.9197	30.811364	3500.8024	0.013119	2.130
	255189.3549	-0.845547	36.2452	-0.001029	-0.018
34°29'	386266.6015	30.811448	3501.5895	0.013099	2.129
	255138.6220	-0.845908	36.1835	-0.001029	-0.018
34°30'	388115.2884	30.811532	3502.3755	0.013079	2.129
	255087.8675	-0.846268	36.1217	-0.001028	-0.018
34°31'	389963.9803	30.811616	3503.1602	0.013060	2.128
	255037.0914	-0.846629	36.0600	-0.001028	-0.018
34°32'	391812.6773	30.811701	3503.9438	0.013040	2.127
	254986.2937	-0.846989	35.9983	-0.001028	-0.018
34°33'	393661.3793	30.811785	3504.7262	0.013020	2.127
	254935.4744	-0.847349	35.9366	-0.001028	-0.018
34°34'	395510.0864	30.811869	3505.5074	0.013000	2.126
	254884.6334	-0.847709	35.8750	-0.001028	-0.018
34°35'	397358.7986	30.811954	3506.2874	0.012981	2.125
	254833.7709	-0.848069	35.8133	-0.001028	-0.018
34°36'	399207.5158	30.812038	3507.0663	0.012961	2.125
	254782.8867	-0.848429	35.7516	-0.001028	-0.018
34°37'	401056.2381	30.812122	3507.8439	0.012941	2.124
	254731.9810	-0.848789	35.6899	-0.001028	-0.018
34°38'	402904.9654	30.812207	3508.6204	0.012921	2.123
	254681.0536	-0.849149	35.6283	-0.001028	-0.018
34°39'	404753.6978	30.812291	3509.3957	0.012902	2.123
	254630.1047	-0.849509	35.5666	-0.001027	-0.018

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
34°40'	406602.4353	30.812375	3510.1698	0.012882	2.122
	254579.1341	-0.849869	35.5050	-0.001027	-0.018
34°41'	408451.1778	30.812460	3510.9427	0.012862	2.121
	254528.1420	-0.850228	35.4433	-0.001027	-0.019
34°42'	410299.9254	30.812544	3511.7144	0.012842	2.121
	254477.1283	-0.850588	35.3817	-0.001027	-0.019
34°43'	412148.6780	30.812629	3512.4849	0.012823	2.120
	254426.0930	-0.850947	35.3201	-0.001027	-0.019
34°44'	413997.4357	30.812713	3513.2543	0.012803	2.119
	254375.0362	-0.851307	35.2584	-0.001027	-0.019
34°45'	415846.1985	30.812798	3514.0225	0.012783	2.119
	254323.9578	-0.851666	35.1968	-0.001027	-0.019
34°46'	417694.9664	30.812882	3514.7894	0.012763	2.118
	254272.8578	-0.852026	35.1352	-0.001027	-0.019
34°47'	419543.7393	30.812967	3515.5552	0.012743	2.117
	254221.7363	-0.852385	35.0736	-0.001027	-0.019
34°48'	421392.5173	30.813051	3516.3198	0.012724	2.117
	254170.5932	-0.852744	35.0120	-0.001026	-0.019
34°49'	423241.3004	30.813136	3517.0833	0.012704	2.116
	254119.4285	-0.853103	34.9505	-0.001026	-0.019
34°50'	425090.0885	30.813220	3517.8455	0.012684	2.115
	254068.2424	-0.853462	34.8889	-0.001026	-0.019
34°51'	426938.8817	30.813305	3518.6065	0.012664	2.115
	254017.0346	-0.853821	34.8273	-0.001026	-0.019
34°52'	428787.6800	30.813389	3519.3664	0.012644	2.114
	253965.8054	-0.854180	34.7658	-0.001026	-0.019
34°53'	430636.4834	30.813474	3520.1250	0.012625	2.113
	253914.5546	-0.854539	34.7042	-0.001026	-0.019
34°54'	432485.2918	30.813559	3520.8825	0.012605	2.113
	253863.2823	-0.854897	34.6427	-0.001026	-0.019
34°55'	434334.1054	30.813643	3521.6388	0.012585	2.112
	253811.9884	-0.855256	34.5811	-0.001026	-0.019
34°56'	436182.9240	30.813728	3522.3939	0.012565	2.111
	253760.6730	-0.855615	34.5196	-0.001025	-0.019
34°57'	438031.7477	30.813813	3523.1478	0.012545	2.111
	253709.3362	-0.855973	34.4581	-0.001025	-0.019
34°58'	439880.5764	30.813898	3523.9005	0.012525	2.110
	253657.9778	-0.856332	34.3965	-0.001025	-0.019
34°59'	441729.4103	30.813982	3524.6520	0.012505	2.109
	253606.5979	-0.856690	34.3350	-0.001025	-0.019
35° 0'	443578.2492	30.814067	3525.4023	0.012486	2.108
	253555.1965	-0.857048	34.2735	-0.001025	-0.019
35° 1'	445427.0932	30.814152	3526.1515	0.012466	2.108
	253503.7735	-0.857407	34.2120	-0.001025	-0.019

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35° 2'	447275.9424	30.814237	3526.8994	0.012446	2.107
	253452.3291	-0.857765	34.1506	-0.001025	-0.019
35° 3'	449124.7966	30.814322	3527.6462	0.012426	2.106
	253400.8632	-0.858123	34.0891	-0.001024	-0.019
35° 4'	450973.6559	30.814406	3528.3917	0.012406	2.106
	253349.3759	-0.858481	34.0276	-0.001024	-0.019
35° 5'	452822.5202	30.814491	3529.1361	0.012386	2.105
	253297.8670	-0.858839	33.9661	-0.001024	-0.019
35° 6'	454671.3897	30.814576	3529.8793	0.012366	2.104
	253246.3367	-0.859197	33.9047	-0.001024	-0.019
35° 7'	456520.2643	30.814661	3530.6213	0.012347	2.104
	253194.7848	-0.859555	33.8432	-0.001024	-0.019
35° 8'	458369.1439	30.814746	3531.3621	0.012327	2.103
	253143.2115	-0.859913	33.7818	-0.001024	-0.019
35° 9'	460218.0287	30.814831	3532.1017	0.012307	2.102
	253091.6168	-0.860270	33.7204	-0.001024	-0.020
35°10'	462066.9185	30.814916	3532.8401	0.012287	2.101
	253040.0006	-0.860628	33.6590	-0.001024	-0.020
35°11'	463915.8135	30.815001	3533.5773	0.012267	2.101
	252988.3629	-0.860985	33.5975	-0.001023	-0.020
35°12'	465764.7135	30.815086	3534.3133	0.012247	2.100
	252936.7038	-0.861343	33.5361	-0.001023	-0.020
35°13'	467613.6187	30.815171	3535.0481	0.012227	2.099
	252885.0232	-0.861700	33.4747	-0.001023	-0.020
35°14'	469462.5289	30.815256	3535.7818	0.012207	2.099
	252833.3212	-0.862058	33.4134	-0.001023	-0.020
35°15'	471311.4443	30.815341	3536.5142	0.012187	2.098
	252781.5977	-0.862415	33.3520	-0.001023	-0.020
35°16'	473160.3647	30.815426	3537.2454	0.012167	2.097
	252729.8528	-0.862772	33.2906	-0.001023	-0.020
35°17'	475009.2902	30.815511	3537.9755	0.012147	2.096
	252678.0865	-0.863129	33.2292	-0.001023	-0.020
35°18'	476858.2209	30.815596	3538.7043	0.012128	2.096
	252626.2987	-0.863486	33.1679	-0.001022	-0.020
35°19'	478707.1567	30.815681	3539.4320	0.012108	2.095
	252574.4895	-0.863843	33.1065	-0.001022	-0.020
35°20'	480556.0975	30.815766	3540.1584	0.012088	2.094
	252522.6589	-0.864200	33.0452	-0.001022	-0.020
35°21'	482405.0435	30.815851	3540.8837	0.012068	2.093
	252470.8069	-0.864557	32.9839	-0.001022	-0.020
35°22'	484253.9946	30.815937	3541.6078	0.012048	2.093
	252418.9335	-0.864914	32.9226	-0.001022	-0.020
35°23'	486102.9508	30.816022	3542.3306	0.012028	2.092
	252367.0387	-0.865271	32.8612	-0.001022	-0.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°24'	487951.9121	30.816107	3543.0523	0.012008	2.091
	252315.1224	-0.865627	32.7999	-0.001022	-0.020
35°25'	489800.8785	30.816192	3543.7728	0.011988	2.091
	252263.1848	-0.865984	32.7386	-0.001021	-0.020
35°26'	491649.8500	30.816277	3544.4921	0.011968	2.090
	252211.2258	-0.866340	32.6774	-0.001021	-0.020
35°27'	493498.8267	30.816363	3545.2101	0.011948	2.089
	252159.2453	-0.866697	32.6161	-0.001021	-0.020
35°28'	495347.8084	30.816448	3545.9270	0.011928	2.088
	252107.2435	-0.867053	32.5548	-0.001021	-0.020
35°29'	497196.7953	30.816533	3546.6427	0.011908	2.088
	252055.2204	-0.867409	32.4936	-0.001021	-0.020
35°30'	499045.7873	30.816618	3547.3572	0.011888	2.087
	252003.1758	-0.867766	32.4323	-0.001021	-0.020
35°31'	500894.7844	30.816704	3548.0705	0.011868	2.086
	251951.1099	-0.868122	32.3711	-0.001021	-0.020
35°32'	502743.7866	30.816789	3548.7826	0.011848	2.085
	251899.0226	-0.868478	32.3098	-0.001020	-0.020
35°33'	504592.7940	30.816874	3549.4935	0.011828	2.085
	251846.9139	-0.868834	32.2486	-0.001020	-0.020
35°34'	506441.8064	30.816960	3550.2031	0.011808	2.084
	251794.7839	-0.869190	32.1874	-0.001020	-0.020
35°35'	508290.8240	30.817045	3550.9116	0.011788	2.083
	251742.6325	-0.869546	32.1262	-0.001020	-0.020
35°36'	510139.8467	30.817131	3551.6189	0.011768	2.082
	251690.4597	-0.869901	32.0650	-0.001020	-0.020
35°37'	511988.8746	30.817216	3552.3250	0.011748	2.082
	251638.2657	-0.870257	32.0038	-0.001020	-0.020
35°38'	513837.9075	30.817302	3553.0299	0.011728	2.081
	251586.0502	-0.870613	31.9426	-0.001019	-0.020
35°39'	515686.9456	30.817387	3553.7336	0.011708	2.080
	251533.8135	-0.870968	31.8815	-0.001019	-0.021
35°40'	517535.9889	30.817472	3554.4361	0.011688	2.079
	251481.5554	-0.871324	31.8203	-0.001019	-0.021
35°41'	519385.0372	30.817558	3555.1374	0.011668	2.079
	251429.2759	-0.871679	31.7592	-0.001019	-0.021
35°42'	521234.0907	30.817643	3555.8375	0.011648	2.078
	251376.9752	-0.872035	31.6980	-0.001019	-0.021
35°43'	523083.1493	30.817729	3556.5363	0.011628	2.077
	251324.6531	-0.872390	31.6369	-0.001019	-0.021
35°44'	524932.2130	30.817815	3557.2340	0.011608	2.076
	251272.3097	-0.872745	31.5758	-0.001019	-0.021
35°45'	526781.2819	30.817900	3557.9305	0.011588	2.076
	251219.9450	-0.873100	31.5146	-0.001018	-0.021

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
35°46'	528630.3559	30.817986	3558.6258	0.011568	2.075
	251167.5590	-0.873455	31.4535	-0.001018	-0.021
35°47'	530479.4350	30.818071	3559.3198	0.011548	2.074
	251115.1517	-0.873810	31.3925	-0.001018	-0.021
35°48'	532328.5193	30.818157	3560.0127	0.011528	2.073
	251062.7231	-0.874165	31.3314	-0.001018	-0.021
35°49'	534177.6087	30.818243	3560.7044	0.011508	2.072
	251010.2731	-0.874520	31.2703	-0.001018	-0.021
35°50'	536026.7033	30.818328	3561.3949	0.011488	2.072
	250957.8019	-0.874875	31.2092	-0.001018	-0.021
35°51'	537875.8030	30.818414	3562.0841	0.011468	2.071
	250905.3094	-0.875230	31.1482	-0.001017	-0.021
35°52'	539724.9078	30.818499	3562.7722	0.011448	2.070
	250852.7957	-0.875584	31.0871	-0.001017	-0.021
35°53'	541574.0178	30.818585	3563.4590	0.011428	2.069
	250800.2606	-0.875939	31.0261	-0.001017	-0.021
35°54'	543423.1329	30.818671	3564.1447	0.011407	2.069
	250747.7043	-0.876293	30.9651	-0.001017	-0.021
35°55'	545272.2531	30.818757	3564.8291	0.011387	2.068
	250695.1267	-0.876648	30.9041	-0.001017	-0.021
35°56'	547121.3785	30.818842	3565.5124	0.011367	2.067
	250642.5278	-0.877002	30.8431	-0.001017	-0.021
35°57'	548970.5091	30.818928	3566.1944	0.011347	2.066
	250589.9077	-0.877356	30.7821	-0.001016	-0.021
35°58'	550819.6448	30.819014	3566.8752	0.011327	2.066
	250537.2663	-0.877711	30.7211	-0.001016	-0.021
35°59'	552668.7856	30.819100	3567.5549	0.011307	2.065
	250484.6037	-0.878065	30.6601	-0.001016	-0.021
36° 0'	554517.9316	30.819186	3568.2333	0.011287	2.064
	250431.9198	-0.878419	30.5991	-0.001016	-0.021
36° 1'	556367.0827	30.819271	3568.9105	0.011267	2.063
	250379.2147	-0.878773	30.5382	-0.001016	-0.021
36° 2'	558216.2390	30.819357	3569.5865	0.011247	2.062
	250326.4883	-0.879127	30.4772	-0.001016	-0.021
36° 3'	560065.4004	30.819443	3570.2613	0.011227	2.062
	250273.7407	-0.879481	30.4163	-0.001015	-0.021
36° 4'	561914.5670	30.819529	3570.9349	0.011206	2.061
	250220.9718	-0.879834	30.3554	-0.001015	-0.021
36° 5'	563763.7388	30.819615	3571.6073	0.011186	2.060
	250168.1818	-0.880188	30.2945	-0.001015	-0.021
36° 6'	565612.9156	30.819701	3572.2785	0.011166	2.059
	250115.3705	-0.880542	30.2336	-0.001015	-0.021
36° 7'	567462.0977	30.819787	3572.9484	0.011146	2.058
	250062.5380	-0.880895	30.1727	-0.001015	-0.021

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0024	0.0027

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36° 8'	569311.2849	30.819873	3573.6172	0.011126	2.058
	250009.6843	-0.881249	30.1118	-0.001015	-0.021
36° 9'	571160.4773	30.819959	3574.2848	0.011106	2.057
	249956.8093	-0.881602	30.0509	-0.001014	-0.022
36°10'	573009.6748	30.820045	3574.9511	0.011086	2.056
	249903.9132	-0.881956	29.9901	-0.001014	-0.022
36°11'	574858.8774	30.820131	3575.6163	0.011066	2.055
	249850.9959	-0.882309	29.9292	-0.001014	-0.022
36°12'	576708.0853	30.820217	3576.2802	0.011045	2.054
	249798.0574	-0.882662	29.8684	-0.001014	-0.022
36°13'	578557.2983	30.820303	3576.9429	0.011025	2.054
	249745.0976	-0.883015	29.8075	-0.001014	-0.022
36°14'	580406.5164	30.820389	3577.6044	0.011005	2.053
	249692.1167	-0.883368	29.7467	-0.001013	-0.022
36°15'	582255.7398	30.820475	3578.2648	0.010985	2.052
	249639.1146	-0.883721	29.6859	-0.001013	-0.022
36°16'	584104.9682	30.820561	3578.9238	0.010965	2.051
	249586.0913	-0.884074	29.6251	-0.001013	-0.022
36°17'	585954.2019	30.820647	3579.5817	0.010945	2.050
	249533.0469	-0.884427	29.5643	-0.001013	-0.022
36°18'	587803.4407	30.820733	3580.2384	0.010924	2.050
	249479.9813	-0.884780	29.5036	-0.001013	-0.022
36°19'	589652.6847	30.820819	3580.8939	0.010904	2.049
	249426.8945	-0.885132	29.4428	-0.001013	-0.022
36°20'	591501.9338	30.820905	3581.5481	0.010884	2.048
	249373.7865	-0.885485	29.3820	-0.001012	-0.022
36°21'	593351.1882	30.820991	3582.2012	0.010864	2.047
	249320.6574	-0.885838	29.3213	-0.001012	-0.022
36°22'	595200.4476	30.821078	3582.8530	0.010844	2.046
	249267.5072	-0.886190	29.2606	-0.001012	-0.022
36°23'	597049.7123	30.821164	3583.5037	0.010824	2.046
	249214.3358	-0.886543	29.1998	-0.001012	-0.022
36°24'	598898.9821	30.821250	3584.1531	0.010803	2.045
	249161.1432	-0.886895	29.1391	-0.001012	-0.022
36°25'	600748.2571	30.821336	3584.8013	0.010783	2.044
	249107.9295	-0.887247	29.0784	-0.001011	-0.022
36°26'	602597.5373	30.821422	3585.4483	0.010763	2.043
	249054.6947	-0.887599	29.0177	-0.001011	-0.022
36°27'	604446.8226	30.821509	3586.0941	0.010743	2.042
	249001.4387	-0.887951	28.9571	-0.001011	-0.022
36°28'	606296.1132	30.821595	3586.7386	0.010723	2.041
	248948.1617	-0.888303	28.8964	-0.001011	-0.022
36°29'	608145.4089	30.821681	3587.3820	0.010702	2.041
	248894.8634	-0.888655	28.8357	-0.001011	-0.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°30'	609994.7097	30.821768	3588.0241	0.010682	2.040
	248841.5441	-0.889007	28.7751	-0.001011	-0.022
36°31'	611844.0158	30.821854	3588.6651	0.010662	2.039
	248788.2037	-0.889359	28.7145	-0.001010	-0.022
36°32'	613693.3270	30.821940	3589.3048	0.010642	2.038
	248734.8421	-0.889711	28.6538	-0.001010	-0.022
36°33'	615542.6434	30.822027	3589.9433	0.010622	2.037
	248681.4595	-0.890063	28.5932	-0.001010	-0.022
36°34'	617391.9650	30.822113	3590.5806	0.010601	2.037
	248628.0557	-0.890414	28.5326	-0.001010	-0.022
36°35'	619241.2918	30.822199	3591.2167	0.010581	2.036
	248574.6309	-0.890766	28.4721	-0.001010	-0.022
36°36'	621090.6238	30.822286	3591.8515	0.010561	2.035
	248521.1849	-0.891117	28.4115	-0.001009	-0.022
36°37'	622939.9609	30.822372	3592.4852	0.010541	2.034
	248467.7179	-0.891469	28.3509	-0.001009	-0.022
36°38'	624789.3032	30.822459	3593.1176	0.010520	2.033
	248414.2298	-0.891820	28.2904	-0.001009	-0.022
36°39'	626638.6508	30.822545	3593.7489	0.010500	2.032
	248360.7206	-0.892171	28.2298	-0.001009	-0.022
36°40'	628488.0035	30.822631	3594.3789	0.010480	2.032
	248307.1903	-0.892522	28.1693	-0.001009	-0.022
36°41'	630337.3613	30.822718	3595.0077	0.010460	2.031
	248253.6390	-0.892873	28.1088	-0.001008	-0.022
36°42'	632186.7244	30.822804	3595.6352	0.010439	2.030
	248200.0666	-0.893224	28.0483	-0.001008	-0.023
36°43'	634036.0927	30.822891	3596.2616	0.010419	2.029
	248146.4731	-0.893575	27.9878	-0.001008	-0.023
36°44'	635885.4661	30.822977	3596.8868	0.010399	2.028
	248092.8586	-0.893926	27.9273	-0.001008	-0.023
36°45'	637734.8448	30.823064	3597.5107	0.010379	2.027
	248039.2230	-0.894277	27.8668	-0.001008	-0.023
36°46'	639584.2286	30.823150	3598.1334	0.010358	2.026
	247985.5664	-0.894628	27.8064	-0.001007	-0.023
36°47'	641433.6176	30.823237	3598.7549	0.010338	2.026
	247931.8887	-0.894978	27.7459	-0.001007	-0.023
36°48'	643283.0119	30.823324	3599.3752	0.010318	2.025
	247878.1900	-0.895329	27.6855	-0.001007	-0.023
36°49'	645132.4113	30.823410	3599.9943	0.010298	2.024
	247824.4702	-0.895680	27.6251	-0.001007	-0.023
36°50'	646981.8159	30.823497	3600.6121	0.010277	2.023
	247770.7295	-0.896030	27.5647	-0.001007	-0.023
36°51'	648831.2257	30.823583	3601.2287	0.010257	2.022
	247716.9677	-0.896380	27.5043	-0.001006	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
36°52'	650680.6407	30.823670	3601.8442	0.010237	2.021
	247663.1848	-0.896731	27.4439	-0.001006	-0.023
36°53'	652530.0609	30.823757	3602.4584	0.010216	2.021
	247609.3810	-0.897081	27.3835	-0.001006	-0.023
36°54'	654379.4863	30.823843	3603.0714	0.010196	2.020
	247555.5561	-0.897431	27.3232	-0.001006	-0.023
36°55'	656228.9169	30.823930	3603.6831	0.010176	2.019
	247501.7103	-0.897781	27.2628	-0.001006	-0.023
36°56'	658078.3527	30.824017	3604.2937	0.010155	2.018
	247447.8434	-0.898131	27.2025	-0.001005	-0.023
36°57'	659927.7937	30.824104	3604.9030	0.010135	2.017
	247393.9555	-0.898481	27.1421	-0.001005	-0.023
36°58'	661777.2400	30.824190	3605.5111	0.010115	2.016
	247340.0467	-0.898831	27.0818	-0.001005	-0.023
36°59'	663626.6914	30.824277	3606.1180	0.010095	2.015
	247286.1168	-0.899181	27.0215	-0.001005	-0.023
37° 0'	665476.1480	30.824364	3606.7237	0.010074	2.015
	247232.1660	-0.899530	26.9613	-0.001005	-0.023
37° 1'	667325.6098	30.824451	3607.3281	0.010054	2.014
	247178.1942	-0.899880	26.9010	-0.001004	-0.023
37° 2'	669175.0769	30.824537	3607.9314	0.010034	2.013
	247124.2014	-0.900230	26.8407	-0.001004	-0.023
37° 3'	671024.5491	30.824624	3608.5334	0.010013	2.012
	247070.1876	-0.900579	26.7805	-0.001004	-0.023
37° 4'	672874.0265	30.824711	3609.1342	0.009993	2.011
	247016.1529	-0.900928	26.7202	-0.001004	-0.023
37° 5'	674723.5092	30.824798	3609.7337	0.009973	2.010
	246962.0972	-0.901278	26.6600	-0.001004	-0.023
37° 6'	676572.9971	30.824885	3610.3321	0.009952	2.009
	246908.0205	-0.901627	26.5998	-0.001003	-0.023
37° 7'	678422.4901	30.824971	3610.9292	0.009932	2.008
	246853.9229	-0.901976	26.5396	-0.001003	-0.023
37° 8'	680271.9884	30.825058	3611.5252	0.009912	2.008
	246799.8043	-0.902325	26.4794	-0.001003	-0.023
37° 9'	682121.4919	30.825145	3612.1198	0.009891	2.007
	246745.6648	-0.902674	26.4192	-0.001003	-0.023
37°10'	683971.0006	30.825232	3612.7133	0.009871	2.006
	246691.5043	-0.903023	26.3591	-0.001002	-0.023
37°11'	685820.5146	30.825319	3613.3056	0.009851	2.005
	246637.3229	-0.903372	26.2989	-0.001002	-0.023
37°12'	687670.0337	30.825406	3613.8966	0.009830	2.004
	246583.1206	-0.903721	26.2388	-0.001002	-0.023
37°13'	689519.5581	30.825493	3614.4864	0.009810	2.003
	246528.8973	-0.904070	26.1787	-0.001002	-0.023

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEW MEXICO Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
37°14'	691369.0877	30.825580	3615.0750	0.009789	2.002
	246474.6531	-0.904418	26.1186	-0.001002	-0.023
37°15'	693218.6225	30.825667	3615.6624	0.009769	2.001
	246420.3880	-0.904767	26.0585	-0.001001	-0.023
37°16'	695068.1625	30.825754	3616.2485	0.009749	2.001
	246366.1020	-0.905116	25.9984	-0.001001	-0.024
37°17'	696917.7077	30.825841	3616.8334	0.009728	2.000
	246311.7951	-0.905464	25.9383	-0.001001	-0.024
37°18'	698767.2582	30.825928	3617.4171	0.009708	1.999
	246257.4672	-0.905812	25.8783	-0.001001	-0.024
37°19'	700616.8138	30.826015	3617.9996	0.009688	1.998
	246203.1185	-0.906161	25.8182	-0.001000	-0.024
37°20'	702466.3747	30.826102	3618.5809	0.009667	1.997
	246148.7489	-0.906509	25.7582	-0.001000	-0.024

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0015	0.0023	0.0026

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31° 0'	0.0000	30.794313	1528.3875	0.016699	18.980
	37698.0798	0.109321	266.3081	0.003207	3.459
31° 1'	1847.6588	30.794393	1529.3894	0.016705	18.997
	37704.6390	0.109412	266.5006	0.003211	3.464
31° 2'	3695.3224	30.794473	1530.3918	0.016711	19.014
	37711.2038	0.109504	266.6932	0.003215	3.469
31° 3'	5542.9907	30.794552	1531.3944	0.016717	19.030
	37717.7740	0.109595	266.8861	0.003219	3.473
31° 4'	7390.6639	30.794632	1532.3974	0.016722	19.047
	37724.3497	0.109687	267.0793	0.003223	3.478
31° 5'	9238.3418	30.794712	1533.4007	0.016728	19.064
	37730.9309	0.109778	267.2727	0.003227	3.483
31° 6'	11086.0245	30.794791	1534.4044	0.016734	19.081
	37737.5176	0.109870	267.4663	0.003231	3.487
31° 7'	12933.7120	30.794871	1535.4085	0.016740	19.098
	37744.1098	0.109961	267.6602	0.003235	3.492
31° 8'	14781.4042	30.794951	1536.4128	0.016745	19.115
	37750.7074	0.110053	267.8543	0.003239	3.497
31° 9'	16629.1013	30.795031	1537.4176	0.016751	19.132
	37757.3106	0.110145	268.0486	0.003243	3.502
31°10'	18476.8031	30.795110	1538.4226	0.016757	19.149
	37763.9193	0.110237	268.2432	0.003247	3.506
31°11'	20324.5098	30.795190	1539.4281	0.016763	19.166
	37770.5335	0.110329	268.4380	0.003251	3.511
31°12'	22172.2212	30.795270	1540.4338	0.016769	19.183
	37777.1532	0.110421	268.6331	0.003255	3.516
31°13'	24019.9374	30.795350	1541.4399	0.016774	19.200
	37783.7785	0.110513	268.8284	0.003259	3.521
31°14'	25867.6584	30.795430	1542.4464	0.016780	19.217
	37790.4092	0.110605	269.0239	0.003263	3.525
31°15'	27715.3842	30.795510	1543.4532	0.016786	19.234
	37797.0455	0.110697	269.2197	0.003267	3.530
31°16'	29563.1148	30.795590	1544.4604	0.016792	19.251
	37803.6873	0.110789	269.4158	0.003271	3.535
31°17'	31410.8502	30.795670	1545.4679	0.016798	19.268
	37810.3347	0.110882	269.6120	0.003275	3.540
31°18'	33258.5904	30.795750	1546.4757	0.016803	19.285
	37816.9876	0.110974	269.8085	0.003279	3.545
31°19'	35106.3353	30.795830	1547.4840	0.016809	19.302
	37823.6460	0.111067	270.0053	0.003283	3.549
31°20'	36954.0851	30.795910	1548.4925	0.016815	19.319
	37830.3100	0.111159	270.2023	0.003287	3.554
31°21'	38801.8397	30.795990	1549.5014	0.016821	19.336
	37836.9796	0.111252	270.3995	0.003291	3.559

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°22'	40649.5991	30.796070	1550.5107	0.016827	19.353
	37843.6547	0.111344	270.5970	0.003295	3.564
31°23'	42497.3633	30.796150	1551.5203	0.016833	19.371
	37850.3353	0.111437	270.7947	0.003300	3.569
31°24'	44345.1323	30.796230	1552.5303	0.016839	19.388
	37857.0216	0.111530	270.9927	0.003304	3.574
31°25'	46192.9062	30.796311	1553.5406	0.016844	19.405
	37863.7133	0.111623	271.1909	0.003308	3.579
31°26'	48040.6848	30.796391	1554.5512	0.016850	19.422
	37870.4107	0.111716	271.3894	0.003312	3.583
31°27'	49888.4682	30.796471	1555.5623	0.016856	19.439
	37877.1137	0.111809	271.5881	0.003316	3.588
31°28'	51736.2565	30.796551	1556.5736	0.016862	19.456
	37883.8222	0.111902	271.7871	0.003320	3.593
31°29'	53584.0496	30.796631	1557.5854	0.016868	19.474
	37890.5363	0.111995	271.9863	0.003324	3.598
31°30'	55431.8475	30.796712	1558.5974	0.016874	19.491
	37897.2560	0.112088	272.1857	0.003328	3.603
31°31'	57279.6502	30.796792	1559.6099	0.016880	19.508
	37903.9813	0.112182	272.3854	0.003332	3.608
31°32'	59127.4577	30.796872	1560.6227	0.016886	19.526
	37910.7122	0.112275	272.5853	0.003336	3.613
31°33'	60975.2700	30.796953	1561.6358	0.016892	19.543
	37917.4487	0.112368	272.7855	0.003341	3.618
31°34'	62823.0872	30.797033	1562.6493	0.016898	19.560
	37924.1908	0.112462	272.9859	0.003345	3.623
31°35'	64670.9092	30.797114	1563.6631	0.016903	19.577
	37930.9385	0.112555	273.1866	0.003349	3.628
31°36'	66518.7360	30.797194	1564.6774	0.016909	19.595
	37937.6918	0.112649	273.3876	0.003353	3.633
31°37'	68366.5677	30.797275	1565.6919	0.016915	19.612
	37944.4507	0.112743	273.5887	0.003357	3.638
31°38'	70214.4041	30.797355	1566.7068	0.016921	19.630
	37951.2153	0.112837	273.7902	0.003361	3.643
31°39'	72062.2454	30.797436	1567.7221	0.016927	19.647
	37957.9855	0.112930	273.9918	0.003365	3.648
31°40'	73910.0916	30.797516	1568.7378	0.016933	19.664
	37964.7613	0.113024	274.1938	0.003370	3.653
31°41'	75757.9425	30.797597	1569.7538	0.016939	19.682
	37971.5428	0.113118	274.3959	0.003374	3.658
31°42'	77605.7983	30.797677	1570.7701	0.016945	19.699
	37978.3299	0.113212	274.5984	0.003378	3.663
31°43'	79453.6590	30.797758	1571.7868	0.016951	19.717
	37985.1226	0.113306	274.8010	0.003382	3.668

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
31°44'	81301.5244	30.797838	1572.8039	0.016957	19.734
	37991.9210	0.113401	275.0040	0.003386	3.673
31°45'	83149.3948	30.797919	1573.8213	0.016963	19.752
	37998.7250	0.113495	275.2071	0.003391	3.678
31°46'	84997.2699	30.798000	1574.8391	0.016969	19.769
	38005.5347	0.113589	275.4106	0.003395	3.683
31°47'	86845.1499	30.798081	1575.8573	0.016975	19.787
	38012.3501	0.113684	275.6143	0.003399	3.688
31°48'	88693.0347	30.798161	1576.8758	0.016981	19.804
	38019.1711	0.113778	275.8182	0.003403	3.693
31°49'	90540.9244	30.798242	1577.8946	0.016987	19.822
	38025.9978	0.113873	276.0224	0.003407	3.698
31°50'	92388.8189	30.798323	1578.9139	0.016993	19.839
	38032.8302	0.113967	276.2268	0.003412	3.703
31°51'	94236.7183	30.798404	1579.9335	0.016999	19.857
	38039.6682	0.114062	276.4315	0.003416	3.708
31°52'	96084.6225	30.798484	1580.9534	0.017005	19.874
	38046.5119	0.114157	276.6365	0.003420	3.713
31°53'	97932.5316	30.798565	1581.9737	0.017011	19.892
	38053.3613	0.114252	276.8417	0.003424	3.719
31°54'	99780.4455	30.798646	1582.9944	0.017017	19.910
	38060.2164	0.114347	277.0471	0.003429	3.724
31°55'	101628.3642	30.798727	1584.0155	0.017023	19.927
	38067.0772	0.114442	277.2528	0.003433	3.729
31°56'	103476.2879	30.798808	1585.0369	0.017029	19.945
	38073.9437	0.114537	277.4588	0.003437	3.734
31°57'	105324.2163	30.798889	1586.0586	0.017036	19.963
	38080.8159	0.114632	277.6650	0.003441	3.739
31°58'	107172.1497	30.798970	1587.0808	0.017042	19.980
	38087.6938	0.114727	277.8715	0.003446	3.744
31°59'	109020.0879	30.799051	1588.1033	0.017048	19.998
	38094.5774	0.114822	278.0782	0.003450	3.749
32° 0'	110868.0309	30.799132	1589.1261	0.017054	20.016
	38101.4668	0.114917	278.2852	0.003454	3.755
32° 1'	112715.9788	30.799213	1590.1494	0.017060	20.033
	38108.3618	0.115013	278.4925	0.003458	3.760
32° 2'	114563.9316	30.799294	1591.1730	0.017066	20.051
	38115.2626	0.115108	278.7000	0.003463	3.765
32° 3'	116411.8892	30.799375	1592.1969	0.017072	20.069
	38122.1691	0.115204	278.9077	0.003467	3.770
32° 4'	118259.8517	30.799456	1593.2212	0.017078	20.087
	38129.0813	0.115300	279.1158	0.003471	3.775
32° 5'	120107.8191	30.799537	1594.2459	0.017084	20.104
	38135.9993	0.115395	279.3240	0.003476	3.781

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32° 6'	121955.7913	30.799618	1595.2710	0.017090	20.122
	38142.9230	0.115491	279.5326	0.003480	3.786
32° 7'	123803.7684	30.799700	1596.2964	0.017097	20.140
	38149.8525	0.115587	279.7414	0.003484	3.791
32° 8'	125651.7504	30.799781	1597.3222	0.017103	20.158
	38156.7877	0.115683	279.9504	0.003489	3.796
32° 9'	127499.7373	30.799862	1598.3484	0.017109	20.176
	38163.7286	0.115779	280.1597	0.003493	3.802
32°10'	129347.7290	30.799943	1599.3749	0.017115	20.194
	38170.6754	0.115875	280.3693	0.003497	3.807
32°11'	131195.7256	30.800024	1600.4018	0.017121	20.212
	38177.6278	0.115971	280.5792	0.003502	3.812
32°12'	133043.7270	30.800106	1601.4291	0.017127	20.229
	38184.5861	0.116067	280.7893	0.003506	3.817
32°13'	134891.7334	30.800187	1602.4567	0.017133	20.247
	38191.5501	0.116163	280.9996	0.003510	3.823
32°14'	136739.7446	30.800268	1603.4847	0.017140	20.265
	38198.5199	0.116260	281.2102	0.003515	3.828
32°15'	138587.7607	30.800350	1604.5131	0.017146	20.283
	38205.4955	0.116356	281.4211	0.003519	3.833
32°16'	140435.7817	30.800431	1605.5419	0.017152	20.301
	38212.4769	0.116453	281.6323	0.003523	3.839
32°17'	142283.8076	30.800513	1606.5710	0.017158	20.319
	38219.4640	0.116549	281.8437	0.003528	3.844
32°18'	144131.8383	30.800594	1607.6005	0.017164	20.337
	38226.4570	0.116646	282.0554	0.003532	3.849
32°19'	145979.8740	30.800675	1608.6303	0.017171	20.355
	38233.4557	0.116743	282.2673	0.003537	3.855
32°20'	147827.9145	30.800757	1609.6606	0.017177	20.373
	38240.4603	0.116839	282.4795	0.003541	3.860
32°21'	149675.9599	30.800838	1610.6912	0.017183	20.391
	38247.4706	0.116936	282.6920	0.003545	3.866
32°22'	151524.0102	30.800920	1611.7222	0.017189	20.409
	38254.4868	0.117033	282.9047	0.003550	3.871
32°23'	153372.0654	30.801001	1612.7535	0.017196	20.427
	38261.5088	0.117130	283.1177	0.003554	3.876
32°24'	155220.1255	30.801083	1613.7852	0.017202	20.446
	38268.5366	0.117227	283.3309	0.003559	3.882
32°25'	157068.1905	30.801165	1614.8174	0.017208	20.464
	38275.5702	0.117324	283.5445	0.003563	3.887
32°26'	158916.2604	30.801246	1615.8498	0.017214	20.482
	38282.6097	0.117422	283.7582	0.003568	3.893
32°27'	160764.3351	30.801328	1616.8827	0.017220	20.500
	38289.6550	0.117519	283.9723	0.003572	3.898

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°28'	162612.4148	30.801410	1617.9159	0.017227	20.518
	38296.7061	0.117616	284.1866	0.003577	3.903
32°29'	164460.4994	30.801491	1618.9495	0.017233	20.536
	38303.7631	0.117714	284.4012	0.003581	3.909
32°30'	166308.5889	30.801573	1619.9835	0.017239	20.554
	38310.8259	0.117811	284.6161	0.003585	3.914
32°31'	168156.6832	30.801655	1621.0179	0.017246	20.573
	38317.8946	0.117909	284.8312	0.003590	3.920
32°32'	170004.7825	30.801736	1622.0526	0.017252	20.591
	38324.9691	0.118006	285.0466	0.003594	3.925
32°33'	171852.8867	30.801818	1623.0877	0.017258	20.609
	38332.0495	0.118104	285.2623	0.003599	3.931
32°34'	173700.9958	30.801900	1624.1232	0.017264	20.627
	38339.1358	0.118202	285.4782	0.003603	3.936
32°35'	175549.1098	30.801982	1625.1591	0.017271	20.646
	38346.2279	0.118300	285.6944	0.003608	3.942
32°36'	177397.2287	30.802064	1626.1953	0.017277	20.664
	38353.3259	0.118398	285.9109	0.003612	3.947
32°37'	179245.3525	30.802145	1627.2319	0.017283	20.682
	38360.4298	0.118496	286.1276	0.003617	3.953
32°38'	181093.4812	30.802227	1628.2689	0.017290	20.701
	38367.5395	0.118594	286.3446	0.003621	3.958
32°39'	182941.6148	30.802309	1629.3063	0.017296	20.719
	38374.6552	0.118692	286.5619	0.003626	3.964
32°40'	184789.7534	30.802391	1630.3441	0.017302	20.737
	38381.7767	0.118791	286.7795	0.003630	3.969
32°41'	186637.8969	30.802473	1631.3822	0.017309	20.756
	38388.9041	0.118889	286.9973	0.003635	3.975
32°42'	188486.0453	30.802555	1632.4208	0.017315	20.774
	38396.0374	0.118987	287.2154	0.003640	3.981
32°43'	190334.1986	30.802637	1633.4597	0.017321	20.793
	38403.1767	0.119086	287.4337	0.003644	3.986
32°44'	192182.3568	30.802719	1634.4989	0.017328	20.811
	38410.3218	0.119184	287.6524	0.003649	3.992
32°45'	194030.5199	30.802801	1635.5386	0.017334	20.829
	38417.4729	0.119283	287.8713	0.003653	3.997
32°46'	195878.6880	30.802883	1636.5787	0.017341	20.848
	38424.6299	0.119382	288.0905	0.003658	4.003
32°47'	197726.8610	30.802965	1637.6191	0.017347	20.866
	38431.7928	0.119481	288.3100	0.003662	4.009
32°48'	199575.0389	30.803047	1638.6599	0.017353	20.885
	38438.9616	0.119579	288.5297	0.003667	4.014
32°49'	201423.2217	30.803129	1639.7011	0.017360	20.903
	38446.1364	0.119678	288.7497	0.003671	4.020

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
32°50'	203271.4095	30.803212	1640.7427	0.017366	20.922
	38453.3171	0.119777	288.9700	0.003676	4.026
32°51'	205119.6022	30.803294	1641.7847	0.017373	20.940
	38460.5037	0.119876	289.1906	0.003681	4.031
32°52'	206967.7998	30.803376	1642.8270	0.017379	20.959
	38467.6963	0.119976	289.4114	0.003685	4.037
32°53'	208816.0024	30.803458	1643.8698	0.017385	20.978
	38474.8948	0.120075	289.6325	0.003690	4.043
32°54'	210664.2098	30.803540	1644.9129	0.017392	20.996
	38482.0993	0.120174	289.8539	0.003695	4.048
32°55'	212512.4223	30.803623	1645.9564	0.017398	21.015
	38489.3098	0.120274	290.0756	0.003699	4.054
32°56'	214360.6396	30.803705	1647.0003	0.017405	21.033
	38496.5262	0.120373	290.2975	0.003704	4.060
32°57'	216208.8619	30.803787	1648.0446	0.017411	21.052
	38503.7486	0.120473	290.5198	0.003708	4.065
32°58'	218057.0891	30.803869	1649.0893	0.017418	21.071
	38510.9769	0.120572	290.7423	0.003713	4.071
32°59'	219905.3213	30.803952	1650.1343	0.017424	21.089
	38518.2113	0.120672	290.9651	0.003718	4.077
33° 0'	221753.5584	30.804034	1651.1798	0.017431	21.108
	38525.4516	0.120772	291.1881	0.003722	4.083
33° 1'	223601.8005	30.804117	1652.2256	0.017437	21.127
	38532.6979	0.120872	291.4115	0.003727	4.088
33° 2'	225450.0475	30.804199	1653.2718	0.017444	21.146
	38539.9502	0.120972	291.6351	0.003732	4.094
33° 3'	227298.2994	30.804281	1654.3184	0.017450	21.164
	38547.2085	0.121072	291.8590	0.003736	4.100
33° 4'	229146.5563	30.804364	1655.3654	0.017457	21.183
	38554.4728	0.121172	292.0832	0.003741	4.106
33° 5'	230994.8181	30.804446	1656.4128	0.017463	21.202
	38561.7431	0.121272	292.3076	0.003746	4.112
33° 6'	232843.0849	30.804529	1657.4606	0.017470	21.221
	38569.0194	0.121372	292.5324	0.003750	4.117
33° 7'	234691.3566	30.804611	1658.5088	0.017476	21.240
	38576.3018	0.121473	292.7574	0.003755	4.123
33° 8'	236539.6333	30.804694	1659.5573	0.017483	21.258
	38583.5901	0.121573	292.9827	0.003760	4.129
33° 9'	238387.9149	30.804776	1660.6063	0.017489	21.277
	38590.8845	0.121673	293.2083	0.003765	4.135
33°10'	240236.2015	30.804859	1661.6556	0.017496	21.296
	38598.1849	0.121774	293.4342	0.003769	4.141
33°11'	242084.4931	30.804942	1662.7054	0.017502	21.315
	38605.4914	0.121875	293.6603	0.003774	4.147

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°12'	243932.7896	30.805024	1663.7555	0.017509	21.334
	38612.8038	0.121975	293.8868	0.003779	4.153
33°13'	245781.0910	30.805107	1664.8060	0.017515	21.353
	38620.1224	0.122076	294.1135	0.003784	4.158
33°14'	247629.3974	30.805190	1665.8570	0.017522	21.372
	38627.4469	0.122177	294.3405	0.003788	4.164
33°15'	249477.7088	30.805272	1666.9083	0.017528	21.391
	38634.7775	0.122278	294.5678	0.003793	4.170
33°16'	251326.0251	30.805355	1667.9600	0.017535	21.410
	38642.1142	0.122379	294.7954	0.003798	4.176
33°17'	253174.3464	30.805438	1669.0121	0.017542	21.429
	38649.4570	0.122480	295.0233	0.003803	4.182
33°18'	255022.6727	30.805520	1670.0646	0.017548	21.448
	38656.8058	0.122581	295.2514	0.003807	4.188
33°19'	256871.0039	30.805603	1671.1175	0.017555	21.467
	38664.1607	0.122683	295.4799	0.003812	4.194
33°20'	258719.3401	30.805686	1672.1708	0.017561	21.486
	38671.5216	0.122784	295.7086	0.003817	4.200
33°21'	260567.6813	30.805769	1673.2244	0.017568	21.505
	38678.8887	0.122885	295.9376	0.003822	4.206
33°22'	262416.0274	30.805852	1674.2785	0.017575	21.524
	38686.2618	0.122987	296.1669	0.003827	4.212
33°23'	264264.3785	30.805934	1675.3330	0.017581	21.543
	38693.6410	0.123089	296.3965	0.003831	4.218
33°24'	266112.7346	30.806017	1676.3879	0.017588	21.562
	38701.0263	0.123190	296.6264	0.003836	4.224
33°25'	267961.0956	30.806100	1677.4431	0.017595	21.581
	38708.4177	0.123292	296.8566	0.003841	4.230
33°26'	269809.4616	30.806183	1678.4988	0.017601	21.600
	38715.8153	0.123394	297.0870	0.003846	4.236
33°27'	271657.8326	30.806266	1679.5549	0.017608	21.620
	38723.2189	0.123496	297.3178	0.003851	4.242
33°28'	273506.2086	30.806349	1680.6114	0.017614	21.639
	38730.6286	0.123598	297.5488	0.003856	4.248
33°29'	275354.5895	30.806432	1681.6682	0.017621	21.658
	38738.0445	0.123700	297.7802	0.003860	4.254
33°30'	277202.9754	30.806515	1682.7255	0.017628	21.677
	38745.4665	0.123802	298.0118	0.003865	4.260
33°31'	279051.3663	30.806598	1683.7832	0.017635	21.697
	38752.8946	0.123904	298.2437	0.003870	4.266
33°32'	280899.7622	30.806681	1684.8412	0.017641	21.716
	38760.3288	0.124006	298.4759	0.003875	4.272
33°33'	282748.1631	30.806764	1685.8997	0.017648	21.735
	38767.7692	0.124109	298.7084	0.003880	4.279

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°34'	284596.5689	30.806847	1686.9586	0.017655	21.754
	38775.2158	0.124211	298.9412	0.003885	4.285
33°35'	286444.9798	30.806930	1688.0179	0.017661	21.774
	38782.6684	0.124314	299.1743	0.003890	4.291
33°36'	288293.3956	30.807013	1689.0775	0.017668	21.793
	38790.1273	0.124417	299.4077	0.003895	4.297
33°37'	290141.8164	30.807097	1690.1376	0.017675	21.812
	38797.5923	0.124519	299.6414	0.003899	4.303
33°38'	291990.2422	30.807180	1691.1981	0.017681	21.832
	38805.0634	0.124622	299.8753	0.003904	4.309
33°39'	293838.6730	30.807263	1692.2590	0.017688	21.851
	38812.5407	0.124725	300.1096	0.003909	4.315
33°40'	295687.1088	30.807346	1693.3203	0.017695	21.871
	38820.0242	0.124828	300.3441	0.003914	4.322
33°41'	297535.5495	30.807429	1694.3820	0.017702	21.890
	38827.5139	0.124931	300.5790	0.003919	4.328
33°42'	299383.9953	30.807513	1695.4441	0.017708	21.909
	38835.0098	0.125034	300.8142	0.003924	4.334
33°43'	301232.4461	30.807596	1696.5066	0.017715	21.929
	38842.5118	0.125137	301.0496	0.003929	4.340
33°44'	303080.9018	30.807679	1697.5695	0.017722	21.948
	38850.0200	0.125240	301.2854	0.003934	4.346
33°45'	304929.3626	30.807763	1698.6328	0.017729	21.968
	38857.5345	0.125344	301.5214	0.003939	4.353
33°46'	306777.8283	30.807846	1699.6965	0.017736	21.987
	38865.0551	0.125447	301.7577	0.003944	4.359
33°47'	308626.2991	30.807929	1700.7607	0.017742	22.007
	38872.5819	0.125551	301.9944	0.003949	4.365
33°48'	310474.7748	30.808013	1701.8252	0.017749	22.026
	38880.1150	0.125654	302.2313	0.003954	4.371
33°49'	312323.2556	30.808096	1702.8902	0.017756	22.046
	38887.6542	0.125758	302.4686	0.003959	4.378
33°50'	314171.7413	30.808179	1703.9555	0.017763	22.066
	38895.1997	0.125862	302.7061	0.003964	4.384
33°51'	316020.2321	30.808263	1705.0213	0.017770	22.085
	38902.7514	0.125966	302.9439	0.003969	4.390
33°52'	317868.7279	30.808346	1706.0875	0.017776	22.105
	38910.3094	0.126070	303.1821	0.003974	4.397
33°53'	319717.2286	30.808430	1707.1540	0.017783	22.125
	38917.8736	0.126174	303.4205	0.003979	4.403
33°54'	321565.7344	30.808513	1708.2210	0.017790	22.144
	38925.4440	0.126278	303.6593	0.003984	4.409
33°55'	323414.2452	30.808597	1709.2884	0.017797	22.164
	38933.0207	0.126382	303.8983	0.003989	4.416

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
33°56'	325262.7610	30.808680	1710.3562	0.017804	22.184
	38940.6036	0.126486	304.1377	0.003994	4.422
33°57'	327111.2818	30.808764	1711.4245	0.017811	22.203
	38948.1928	0.126591	304.3773	0.003999	4.428
33°58'	328959.8077	30.808847	1712.4931	0.017817	22.223
	38955.7882	0.126695	304.6173	0.004004	4.435
33°59'	330808.3385	30.808931	1713.5622	0.017824	22.243
	38963.3899	0.126800	304.8575	0.004009	4.441
34° 0'	332656.8744	30.809015	1714.6316	0.017831	22.263
	38970.9979	0.126904	305.0981	0.004014	4.448
34° 1'	334505.4153	30.809098	1715.7015	0.017838	22.282
	38978.6121	0.127009	305.3389	0.004020	4.454
34° 2'	336353.9611	30.809182	1716.7718	0.017845	22.302
	38986.2326	0.127114	305.5801	0.004025	4.460
34° 3'	338202.5121	30.809266	1717.8425	0.017852	22.322
	38993.8595	0.127218	305.8216	0.004030	4.467
34° 4'	340051.0680	30.809349	1718.9136	0.017859	22.342
	39001.4926	0.127323	306.0634	0.004035	4.473
34° 5'	341899.6290	30.809433	1719.9851	0.017866	22.362
	39009.1320	0.127428	306.3055	0.004040	4.480
34° 6'	343748.1949	30.809517	1721.0571	0.017873	22.382
	39016.7777	0.127534	306.5478	0.004045	4.486
34° 7'	345596.7659	30.809600	1722.1294	0.017880	22.402
	39024.4297	0.127639	306.7906	0.004050	4.493
34° 8'	347445.3420	30.809684	1723.2022	0.017887	22.422
	39032.0880	0.127744	307.0336	0.004055	4.499
34° 9'	349293.9230	30.809768	1724.2754	0.017894	22.441
	39039.7526	0.127849	307.2769	0.004060	4.506
34°10'	351142.5091	30.809852	1725.3490	0.017900	22.461
	39047.4236	0.127955	307.5205	0.004066	4.512
34°11'	352991.1002	30.809936	1726.4231	0.017907	22.481
	39055.1009	0.128060	307.7644	0.004071	4.519
34°12'	354839.6964	30.810020	1727.4975	0.017914	22.501
	39062.7845	0.128166	308.0087	0.004076	4.525
34°13'	356688.2975	30.810103	1728.5724	0.017921	22.521
	39070.4745	0.128272	308.2532	0.004081	4.532
34°14'	358536.9037	30.810187	1729.6477	0.017928	22.542
	39078.1708	0.128377	308.4981	0.004086	4.539
34°15'	360385.5150	30.810271	1730.7234	0.017935	22.562
	39085.8734	0.128483	308.7433	0.004091	4.545
34°16'	362234.1313	30.810355	1731.7995	0.017942	22.582
	39093.5824	0.128589	308.9888	0.004097	4.552
34°17'	364082.7526	30.810439	1732.8760	0.017949	22.602
	39101.2977	0.128695	309.2346	0.004102	4.558

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(IX)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°18'	365931.3789	30.810523	1733.9530	0.017956	22.622
	39109.0194	0.128801	309.4807	0.004107	4.565
34°19'	367780.0103	30.810607	1735.0304	0.017963	22.642
	39116.7475	0.128907	309.7271	0.004112	4.572
34°20'	369628.6467	30.810691	1736.1082	0.017970	22.662
	39124.4820	0.129014	309.9739	0.004118	4.578
34°21'	371477.2882	30.810775	1737.1864	0.017977	22.682
	39132.2228	0.129120	310.2209	0.004123	4.585
34°22'	373325.9347	30.810859	1738.2650	0.017984	22.703
	39139.9700	0.129227	310.4683	0.004128	4.592
34°23'	375174.5862	30.810943	1739.3441	0.017992	22.723
	39147.7236	0.129333	310.7159	0.004133	4.598
34°24'	377023.2428	30.811027	1740.4236	0.017999	22.743
	39155.4836	0.129440	310.9639	0.004139	4.605
34°25'	378871.9045	30.811111	1741.5035	0.018006	22.763
	39163.2500	0.129546	311.2123	0.004144	4.612
34°26'	380720.5712	30.811196	1742.5838	0.018013	22.784
	39171.0228	0.129653	311.4609	0.004149	4.618
34°27'	382569.2429	30.811280	1743.6646	0.018020	22.804
	39178.8020	0.129760	311.7098	0.004154	4.625
34°28'	384417.9197	30.811364	1744.7458	0.018027	22.824
	39186.5876	0.129867	311.9591	0.004160	4.632
34°29'	386266.6015	30.811448	1745.8274	0.018034	22.845
	39194.3796	0.129974	312.2087	0.004165	4.639
34°30'	388115.2884	30.811532	1746.9094	0.018041	22.865
	39202.1780	0.130081	312.4586	0.004170	4.645
34°31'	389963.9803	30.811616	1747.9919	0.018048	22.885
	39209.9829	0.130189	312.7088	0.004176	4.652
34°32'	391812.6773	30.811701	1749.0748	0.018055	22.906
	39217.7942	0.130296	312.9593	0.004181	4.659
34°33'	393661.3793	30.811785	1750.1581	0.018062	22.926
	39225.6120	0.130403	313.2102	0.004186	4.666
34°34'	395510.0864	30.811869	1751.2419	0.018070	22.947
	39233.4362	0.130511	313.4613	0.004192	4.673
34°35'	397358.7986	30.811954	1752.3260	0.018077	22.967
	39241.2668	0.130618	313.7128	0.004197	4.679
34°36'	399207.5158	30.812038	1753.4106	0.018084	22.987
	39249.1039	0.130726	313.9646	0.004202	4.686
34°37'	401056.2381	30.812122	1754.4957	0.018091	23.008
	39256.9475	0.130834	314.2168	0.004208	4.693
34°38'	402904.9654	30.812207	1755.5811	0.018098	23.028
	39264.7975	0.130942	314.4692	0.004213	4.700
34°39'	404753.6978	30.812291	1756.6670	0.018105	23.049
	39272.6540	0.131050	314.7220	0.004218	4.707

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
34°40'	406602.4353	30.812375	1757.7533	0.018112	23.070
	39280.5170	0.131158	314.9751	0.004224	4.714
34°41'	408451.1778	30.812460	1758.8401	0.018120	23.090
	39288.3864	0.131266	315.2285	0.004229	4.721
34°42'	410299.9254	30.812544	1759.9272	0.018127	23.111
	39296.2624	0.131374	315.4822	0.004234	4.728
34°43'	412148.6780	30.812629	1761.0149	0.018134	23.131
	39304.1448	0.131482	315.7363	0.004240	4.735
34°44'	413997.4357	30.812713	1762.1029	0.018141	23.152
	39312.0337	0.131590	315.9907	0.004245	4.741
34°45'	415846.1985	30.812798	1763.1914	0.018148	23.173
	39319.9291	0.131699	316.2454	0.004251	4.748
34°46'	417694.9664	30.812882	1764.2803	0.018156	23.193
	39327.8311	0.131807	316.5005	0.004256	4.755
34°47'	419543.7393	30.812967	1765.3696	0.018163	23.214
	39335.7395	0.131916	316.7558	0.004262	4.762
34°48'	421392.5173	30.813051	1766.4594	0.018170	23.235
	39343.6545	0.132025	317.0115	0.004267	4.769
34°49'	423241.3004	30.813136	1767.5496	0.018177	23.255
	39351.5760	0.132134	317.2676	0.004272	4.776
34°50'	425090.0885	30.813220	1768.6402	0.018185	23.276
	39359.5040	0.132242	317.5239	0.004278	4.783
34°51'	426938.8817	30.813305	1769.7313	0.018192	23.297
	39367.4385	0.132351	317.7806	0.004283	4.790
34°52'	428787.6800	30.813389	1770.8228	0.018199	23.318
	39375.3796	0.132461	318.0376	0.004289	4.797
34°53'	430636.4834	30.813474	1771.9148	0.018206	23.339
	39383.3273	0.132570	318.2949	0.004294	4.805
34°54'	432485.2918	30.813559	1773.0072	0.018214	23.359
	39391.2814	0.132679	318.5526	0.004300	4.812
34°55'	434334.1054	30.813643	1774.1000	0.018221	23.380
	39399.2422	0.132788	318.8106	0.004305	4.819
34°56'	436182.9240	30.813728	1775.1932	0.018228	23.401
	39407.2095	0.132898	319.0689	0.004311	4.826
34°57'	438031.7477	30.813813	1776.2869	0.018236	23.422
	39415.1833	0.133007	319.3275	0.004316	4.833
34°58'	439880.5764	30.813898	1777.3811	0.018243	23.443
	39423.1638	0.133117	319.5865	0.004322	4.840
34°59'	441729.4103	30.813982	1778.4756	0.018250	23.464
	39431.1508	0.133227	319.8458	0.004327	4.847
35° 0'	443578.2492	30.814067	1779.5706	0.018257	23.485
	39439.1444	0.133336	320.1055	0.004333	4.854
35° 1'	445427.0932	30.814152	1780.6661	0.018265	23.506
	39447.1446	0.133446	320.3655	0.004339	4.861

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35° 2'	447275.9424	30.814237	1781.7620	0.018272	23.527
	39455.1513	0.133556	320.6258	0.004344	4.869
35° 3'	449124.7966	30.814322	1782.8583	0.018279	23.548
	39463.1647	0.133666	320.8864	0.004350	4.876
35° 4'	450973.6559	30.814406	1783.9551	0.018287	23.569
	39471.1847	0.133776	321.1474	0.004355	4.883
35° 5'	452822.5202	30.814491	1785.0523	0.018294	23.590
	39479.2112	0.133887	321.4087	0.004361	4.890
35° 6'	454671.3897	30.814576	1786.1499	0.018302	23.611
	39487.2444	0.133997	321.6704	0.004366	4.897
35° 7'	456520.2643	30.814661	1787.2480	0.018309	23.632
	39495.2843	0.134107	321.9324	0.004372	4.905
35° 8'	458369.1439	30.814746	1788.3466	0.018316	23.653
	39503.3307	0.134218	322.1947	0.004378	4.912
35° 9'	460218.0287	30.814831	1789.4455	0.018324	23.674
	39511.3838	0.134328	322.4573	0.004383	4.919
35°10'	462066.9185	30.814916	1790.5450	0.018331	23.696
	39519.4435	0.134439	322.7203	0.004389	4.927
35°11'	463915.8135	30.815001	1791.6448	0.018339	23.717
	39527.5098	0.134550	322.9837	0.004395	4.934
35°12'	465764.7135	30.815086	1792.7451	0.018346	23.738
	39535.5828	0.134661	323.2473	0.004400	4.941
35°13'	467613.6187	30.815171	1793.8459	0.018353	23.759
	39543.6625	0.134772	323.5114	0.004406	4.948
35°14'	469462.5289	30.815256	1794.9471	0.018361	23.780
	39551.7488	0.134883	323.7757	0.004411	4.956
35°15'	471311.4443	30.815341	1796.0488	0.018368	23.802
	39559.8417	0.134994	324.0404	0.004417	4.963
35°16'	473160.3647	30.815426	1797.1508	0.018376	23.823
	39567.9414	0.135105	324.3054	0.004423	4.970
35°17'	475009.2902	30.815511	1798.2534	0.018383	23.844
	39576.0477	0.135217	324.5708	0.004428	4.978
35°18'	476858.2209	30.815596	1799.3564	0.018391	23.866
	39584.1607	0.135328	324.8365	0.004434	4.985
35°19'	478707.1567	30.815681	1800.4598	0.018398	23.887
	39592.2804	0.135439	325.1025	0.004440	4.993
35°20'	480556.0975	30.815766	1801.5637	0.018406	23.908
	39600.4067	0.135551	325.3689	0.004446	5.000
35°21'	482405.0435	30.815851	1802.6680	0.018413	23.930
	39608.5398	0.135663	325.6357	0.004451	5.008
35°22'	484253.9946	30.815937	1803.7728	0.018421	23.951
	39616.6795	0.135775	325.9028	0.004457	5.015
35°23'	486102.9508	30.816022	1804.8780	0.018428	23.973
	39624.8260	0.135886	326.1702	0.004463	5.022

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°24'	487951.9121	30.816107	1805.9837	0.018436	23.994
	39632.9792	0.135998	326.4379	0.004469	5.030
35°25'	489800.8785	30.816192	1807.0899	0.018443	24.016
	39641.1391	0.136110	326.7061	0.004474	5.037
35°26'	491649.8500	30.816277	1808.1964	0.018451	24.037
	39649.3057	0.136223	326.9745	0.004480	5.045
35°27'	493498.8267	30.816363	1809.3035	0.018458	24.059
	39657.4791	0.136335	327.2433	0.004486	5.052
35°28'	495347.8084	30.816448	1810.4110	0.018466	24.080
	39665.6592	0.136447	327.5125	0.004492	5.060
35°29'	497196.7953	30.816533	1811.5189	0.018473	24.102
	39673.8460	0.136560	327.7820	0.004497	5.067
35°30'	499045.7873	30.816618	1812.6273	0.018481	24.123
	39682.0396	0.136672	328.0518	0.004503	5.075
35°31'	500894.7844	30.816704	1813.7361	0.018488	24.145
	39690.2399	0.136785	328.3220	0.004509	5.083
35°32'	502743.7866	30.816789	1814.8454	0.018496	24.167
	39698.4470	0.136898	328.5925	0.004515	5.090
35°33'	504592.7940	30.816874	1815.9552	0.018503	24.188
	39706.6609	0.137010	328.8634	0.004521	5.098
35°34'	506441.8064	30.816960	1817.0654	0.018511	24.210
	39714.8815	0.137123	329.1347	0.004526	5.105
35°35'	508290.8240	30.817045	1818.1760	0.018519	24.232
	39723.1089	0.137236	329.4062	0.004532	5.113
35°36'	510139.8467	30.817131	1819.2872	0.018526	24.253
	39731.3431	0.137349	329.6782	0.004538	5.121
35°37'	511988.8746	30.817216	1820.3987	0.018534	24.275
	39739.5840	0.137463	329.9505	0.004544	5.128
35°38'	513837.9075	30.817302	1821.5108	0.018541	24.297
	39747.8318	0.137576	330.2231	0.004550	5.136
35°39'	515686.9456	30.817387	1822.6233	0.018549	24.319
	39756.0863	0.137689	330.4961	0.004556	5.144
35°40'	517535.9889	30.817472	1823.7362	0.018557	24.340
	39764.3477	0.137803	330.7694	0.004562	5.151
35°41'	519385.0372	30.817558	1824.8496	0.018564	24.362
	39772.6158	0.137916	331.0431	0.004568	5.159
35°42'	521234.0907	30.817643	1825.9635	0.018572	24.384
	39780.8908	0.138030	331.3172	0.004573	5.167
35°43'	523083.1493	30.817729	1827.0778	0.018580	24.406
	39789.1726	0.138144	331.5916	0.004579	5.174
35°44'	524932.2130	30.817815	1828.1926	0.018587	24.428
	39797.4612	0.138257	331.8664	0.004585	5.182
35°45'	526781.2819	30.817900	1829.3078	0.018595	24.450
	39805.7567	0.138371	332.1415	0.004591	5.190

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
35°46'	528630.3559	30.817986	1830.4235	0.018603	24.472
	39814.0589	0.138485	332.4169	0.004597	5.198
35°47'	530479.4350	30.818071	1831.5397	0.018610	24.494
	39822.3681	0.138600	332.6928	0.004603	5.206
35°48'	532328.5193	30.818157	1832.6563	0.018618	24.516
	39830.6841	0.138714	332.9689	0.004609	5.213
35°49'	534177.6087	30.818243	1833.7734	0.018626	24.538
	39839.0069	0.138828	333.2455	0.004615	5.221
35°50'	536026.7033	30.818328	1834.8909	0.018633	24.560
	39847.3366	0.138943	333.5224	0.004621	5.229
35°51'	537875.8030	30.818414	1836.0089	0.018641	24.582
	39855.6731	0.139057	333.7996	0.004627	5.237
35°52'	539724.9078	30.818499	1837.1274	0.018649	24.604
	39864.0166	0.139172	334.0773	0.004633	5.245
35°53'	541574.0178	30.818585	1838.2463	0.018657	24.626
	39872.3669	0.139286	334.3552	0.004639	5.253
35°54'	543423.1329	30.818671	1839.3657	0.018664	24.648
	39880.7240	0.139401	334.6336	0.004645	5.261
35°55'	545272.2531	30.818757	1840.4856	0.018672	24.670
	39889.0881	0.139516	334.9123	0.004651	5.268
35°56'	547121.3785	30.818842	1841.6059	0.018680	24.692
	39897.4591	0.139631	335.1913	0.004657	5.276
35°57'	548970.5091	30.818928	1842.7267	0.018688	24.715
	39905.8370	0.139746	335.4707	0.004663	5.284
35°58'	550819.6448	30.819014	1843.8480	0.018695	24.737
	39914.2217	0.139861	335.7505	0.004669	5.292
35°59'	552668.7856	30.819100	1844.9697	0.018703	24.759
	39922.6134	0.139977	336.0307	0.004675	5.300
36° 0'	554517.9316	30.819186	1846.0919	0.018711	24.781
	39931.0120	0.140092	336.3112	0.004681	5.308
36° 1'	556367.0827	30.819271	1847.2146	0.018719	24.803
	39939.4175	0.140208	336.5920	0.004687	5.316
36° 2'	558216.2390	30.819357	1848.3377	0.018727	24.826
	39947.8300	0.140323	336.8733	0.004693	5.324
36° 3'	560065.4004	30.819443	1849.4613	0.018734	24.848
	39956.2494	0.140439	337.1549	0.004699	5.332
36° 4'	561914.5670	30.819529	1850.5854	0.018742	24.870
	39964.6757	0.140555	337.4368	0.004706	5.340
36° 5'	563763.7388	30.819615	1851.7099	0.018750	24.893
	39973.1090	0.140671	337.7192	0.004712	5.348
36° 6'	565612.9156	30.819701	1852.8349	0.018758	24.915
	39981.5492	0.140786	338.0019	0.004718	5.357
36° 7'	567462.0977	30.819787	1853.9604	0.018766	24.938
	39989.9964	0.140903	338.2849	0.004724	5.365

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36° 8'	569311.2849	30.819873	1855.0864	0.018774	24.960
	39998.4506	0.141019	338.5683	0.004730	5.373
36° 9'	571160.4773	30.819959	1856.2128	0.018782	24.982
	40006.9117	0.141135	338.8521	0.004736	5.381
36°10'	573009.6748	30.820045	1857.3397	0.018789	25.005
	40015.3798	0.141251	339.1363	0.004742	5.389
36°11'	574858.8774	30.820131	1858.4670	0.018797	25.027
	40023.8549	0.141368	339.4209	0.004748	5.397
36°12'	576708.0853	30.820217	1859.5949	0.018805	25.050
	40032.3369	0.141484	339.7058	0.004755	5.405
36°13'	578557.2983	30.820303	1860.7232	0.018813	25.073
	40040.8260	0.141601	339.9910	0.004761	5.413
36°14'	580406.5164	30.820389	1861.8520	0.018821	25.095
	40049.3221	0.141718	340.2767	0.004767	5.422
36°15'	582255.7398	30.820475	1862.9813	0.018829	25.118
	40057.8251	0.141835	340.5627	0.004773	5.430
36°16'	584104.9682	30.820561	1864.1110	0.018837	25.140
	40066.3352	0.141952	340.8491	0.004779	5.438
36°17'	585954.2019	30.820647	1865.2412	0.018845	25.163
	40074.8523	0.142069	341.1359	0.004786	5.446
36°18'	587803.4407	30.820733	1866.3719	0.018853	25.186
	40083.3764	0.142186	341.4230	0.004792	5.455
36°19'	589652.6847	30.820819	1867.5031	0.018861	25.208
	40091.9076	0.142303	341.7105	0.004798	5.463
36°20'	591501.9338	30.820905	1868.6347	0.018869	25.231
	40100.4458	0.142420	341.9984	0.004804	5.471
36°21'	593351.1882	30.820991	1869.7668	0.018877	25.254
	40108.9910	0.142538	342.2867	0.004811	5.479
36°22'	595200.4476	30.821078	1870.8994	0.018885	25.277
	40117.5432	0.142655	342.5753	0.004817	5.488
36°23'	597049.7123	30.821164	1872.0325	0.018893	25.299
	40126.1026	0.142773	342.8643	0.004823	5.496
36°24'	598898.9821	30.821250	1873.1661	0.018901	25.322
	40134.6690	0.142891	343.1537	0.004829	5.505
36°25'	600748.2571	30.821336	1874.3001	0.018909	25.345
	40143.2424	0.143009	343.4435	0.004836	5.513
36°26'	602597.5373	30.821422	1875.4346	0.018917	25.368
	40151.8229	0.143127	343.7336	0.004842	5.521
36°27'	604446.8226	30.821509	1876.5696	0.018925	25.391
	40160.4105	0.143245	344.0242	0.004848	5.530
36°28'	606296.1132	30.821595	1877.7051	0.018933	25.414
	40169.0052	0.143363	344.3151	0.004855	5.538
36°29'	608145.4089	30.821681	1878.8410	0.018941	25.436
	40177.6070	0.143481	344.6063	0.004861	5.547

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°30'	609994.7097	30.821768	1879.9775	0.018949	25.459
	40186.2158	0.143599	344.8980	0.004867	5.555
36°31'	611844.0158	30.821854	1881.1144	0.018957	25.482
	40194.8318	0.143718	345.1900	0.004874	5.563
36°32'	613693.3270	30.821940	1882.2518	0.018965	25.505
	40203.4549	0.143836	345.4825	0.004880	5.572
36°33'	615542.6434	30.822027	1883.3897	0.018973	25.528
	40212.0851	0.143955	345.7753	0.004886	5.580
36°34'	617391.9650	30.822113	1884.5281	0.018981	25.551
	40220.7224	0.144074	346.0685	0.004893	5.589
36°35'	619241.2918	30.822199	1885.6669	0.018989	25.574
	40229.3668	0.144193	346.3620	0.004899	5.597
36°36'	621090.6238	30.822286	1886.8063	0.018997	25.598
	40238.0184	0.144312	346.6560	0.004906	5.606
36°37'	622939.9609	30.822372	1887.9461	0.019005	25.621
	40246.6771	0.144431	346.9503	0.004912	5.615
36°38'	624789.3032	30.822459	1889.0864	0.019013	25.644
	40255.3429	0.144550	347.2451	0.004919	5.623
36°39'	626638.6508	30.822545	1890.2272	0.019021	25.667
	40264.0159	0.144669	347.5402	0.004925	5.632
36°40'	628488.0035	30.822631	1891.3685	0.019030	25.690
	40272.6960	0.144789	347.8357	0.004931	5.640
36°41'	630337.3613	30.822718	1892.5103	0.019038	25.713
	40281.3834	0.144908	348.1316	0.004938	5.649
36°42'	632186.7244	30.822804	1893.6526	0.019046	25.737
	40290.0778	0.145028	348.4278	0.004944	5.658
36°43'	634036.0927	30.822891	1894.7953	0.019054	25.760
	40298.7795	0.145147	348.7245	0.004951	5.666
36°44'	635885.4661	30.822977	1895.9386	0.019062	25.783
	40307.4883	0.145267	349.0215	0.004957	5.675
36°45'	637734.8448	30.823064	1897.0823	0.019070	25.806
	40316.2043	0.145387	349.3190	0.004964	5.684
36°46'	639584.2286	30.823150	1898.2265	0.019079	25.830
	40324.9276	0.145507	349.6168	0.004970	5.692
36°47'	641433.6176	30.823237	1899.3712	0.019087	25.853
	40333.6580	0.145627	349.9150	0.004977	5.701
36°48'	643283.0119	30.823324	1900.5164	0.019095	25.876
	40342.3956	0.145747	350.2136	0.004983	5.710
36°49'	645132.4113	30.823410	1901.6621	0.019103	25.900
	40351.1404	0.145867	350.5126	0.004990	5.719
36°50'	646981.8159	30.823497	1902.8083	0.019111	25.923
	40359.8925	0.145988	350.8120	0.004996	5.727
36°51'	648831.2257	30.823583	1903.9550	0.019120	25.947
	40368.6517	0.146108	351.1118	0.005003	5.736

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
36°52'	650680.6407	30.823670	1905.1022	0.019128	25.970
	40377.4183	0.146229	351.4120	0.005010	5.745
36°53'	652530.0609	30.823757	1906.2499	0.019136	25.994
	40386.1920	0.146350	351.7125	0.005016	5.754
36°54'	654379.4863	30.823843	1907.3980	0.019144	26.017
	40394.9730	0.146471	352.0135	0.005023	5.763
36°55'	656228.9169	30.823930	1908.5467	0.019153	26.041
	40403.7612	0.146591	352.3149	0.005029	5.771
36°56'	658078.3527	30.824017	1909.6958	0.019161	26.064
	40412.5567	0.146712	352.6166	0.005036	5.780
36°57'	659927.7937	30.824104	1910.8455	0.019169	26.088
	40421.3594	0.146834	352.9188	0.005042	5.789
36°58'	661777.2400	30.824190	1911.9956	0.019177	26.111
	40430.1695	0.146955	353.2213	0.005049	5.798
36°59'	663626.6914	30.824277	1913.1463	0.019186	26.135
	40438.9867	0.147076	353.5243	0.005056	5.807
37° 0'	665476.1480	30.824364	1914.2974	0.019194	26.159
	40447.8113	0.147198	353.8276	0.005062	5.816
37° 1'	667325.6098	30.824451	1915.4491	0.019202	26.182
	40456.6432	0.147319	354.1314	0.005069	5.825
37° 2'	669175.0769	30.824537	1916.6012	0.019211	26.206
	40465.4823	0.147441	354.4355	0.005076	5.834
37° 3'	671024.5491	30.824624	1917.7538	0.019219	26.230
	40474.3288	0.147563	354.7400	0.005082	5.843
37° 4'	672874.0265	30.824711	1918.9070	0.019227	26.254
	40483.1825	0.147684	355.0450	0.005089	5.852
37° 5'	674723.5092	30.824798	1920.0606	0.019236	26.278
	40492.0436	0.147806	355.3503	0.005096	5.861
37° 6'	676572.9971	30.824885	1921.2147	0.019244	26.301
	40500.9120	0.147928	355.6561	0.005102	5.870
37° 7'	678422.4901	30.824971	1922.3694	0.019252	26.325
	40509.7877	0.148051	355.9622	0.005109	5.879
37° 8'	680271.9884	30.825058	1923.5245	0.019261	26.349
	40518.6707	0.148173	356.2688	0.005116	5.888
37° 9'	682121.4919	30.825145	1924.6802	0.019269	26.373
	40527.5611	0.148295	356.5757	0.005123	5.897
37°10'	683971.0006	30.825232	1925.8363	0.019277	26.397
	40536.4588	0.148418	356.8831	0.005129	5.906
37°11'	685820.5146	30.825319	1926.9930	0.019286	26.421
	40545.3639	0.148540	357.1909	0.005136	5.915
37°12'	687670.0337	30.825406	1928.1501	0.019294	26.445
	40554.2763	0.148663	357.4990	0.005143	5.925
37°13'	689519.5581	30.825493	1929.3078	0.019303	26.469
	40563.1961	0.148786	357.8076	0.005150	5.934

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
37°14'	691369.0877	30.825580	1930.4659	0.019311	26.493
	40572.1232	0.148909	358.1166	0.005157	5.943
37°15'	693218.6225	30.825667	1931.6246	0.019320	26.517
	40581.0578	0.149032	358.4260	0.005163	5.952
37°16'	695068.1625	30.825754	1932.7838	0.019328	26.541
	40589.9997	0.149155	358.7358	0.005170	5.961
37°17'	696917.7077	30.825841	1933.9434	0.019336	26.565
	40598.9490	0.149278	359.0460	0.005177	5.971
37°18'	698767.2582	30.825928	1935.1036	0.019345	26.589
	40607.9057	0.149402	359.3566	0.005184	5.980
37°19'	700616.8138	30.826015	1936.2643	0.019353	26.613
	40616.8698	0.149525	359.6676	0.005191	5.989
37°20'	702466.3747	30.826102	1937.4255	0.019362	26.637
	40625.8413	0.149649	359.9791	0.005197	5.998

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31° 0'	0.0000	30.794313	5150.3807	0.041553	3.009	
			19415.9464	0.212979	215.391	0.012332
31° 1'	1847.6588	30.794393	5152.8739	0.041546	3.009	
			19428.7252	0.213053	215.608	0.012332
31° 2'	3695.3224	30.794473	5155.3667	0.041538	3.010	
			19441.5083	0.213127	215.826	0.012332
31° 3'	5542.9907	30.794552	5157.8590	0.041531	3.010	
			19454.2959	0.213201	216.043	0.012332
31° 4'	7390.6639	30.794632	5160.3509	0.041524	3.011	
			19467.0880	0.213276	216.261	0.012332
31° 5'	9238.3418	30.794712	5162.8423	0.041517	3.011	
			19479.8846	0.213350	216.480	0.012332
31° 6'	11086.0245	30.794791	5165.3333	0.041509	3.011	
			19492.6856	0.213425	216.698	0.012332
31° 7'	12933.7120	30.794871	5167.8239	0.041502	3.012	
			19505.4911	0.213499	216.917	0.012332
31° 8'	14781.4042	30.794951	5170.3140	0.041495	3.012	
			19518.3010	0.213574	217.136	0.012332
31° 9'	16629.1013	30.795031	5172.8037	0.041487	3.012	
			19531.1155	0.213649	217.355	0.012332
31°10'	18476.8031	30.795110	5175.2929	0.041480	3.013	
			19543.9344	0.213724	217.574	0.012332
31°11'	20324.5098	30.795190	5177.7817	0.041473	3.013	
			19556.7578	0.213798	217.794	0.012332
31°12'	22172.2212	30.795270	5180.2701	0.041466	3.014	
			19569.5857	0.213873	218.014	0.012332
31°13'	24019.9374	30.795350	5182.7580	0.041458	3.014	
			19582.4181	0.213949	218.234	0.012331
31°14'	25867.6584	30.795430	5185.2455	0.041451	3.014	
			19595.2550	0.214024	218.454	0.012331
31°15'	27715.3842	30.795510	5187.7326	0.041444	3.015	
			19608.0965	0.214099	218.674	0.012331
31°16'	29563.1148	30.795590	5190.2192	0.041436	3.015	
			19620.9424	0.214174	218.895	0.012331
31°17'	31410.8502	30.795670	5192.7054	0.041429	3.015	
			19633.7928	0.214250	219.116	0.012331
31°18'	33258.5904	30.795750	5195.1911	0.041422	3.016	
			19646.6478	0.214325	219.337	0.012331
31°19'	35106.3353	30.795830	5197.6764	0.041414	3.016	
			19659.5073	0.214401	219.559	0.012331
31°20'	36954.0851	30.795910	5200.1613	0.041407	3.016	
			19672.3713	0.214476	219.780	0.012331
31°21'	38801.8397	30.795990	5202.6457	0.041400	3.017	
			19685.2399	0.214552	220.002	0.012331

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°22'	40649.5991	30.796070	5205.1297	0.041392	3.017	
			19698.1130	0.214628	220.224	0.012331
31°23'	42497.3633	30.796150	5207.6132	0.041385	3.018	
			19710.9907	0.214703	220.447	0.012331
31°24'	44345.1323	30.796230	5210.0963	0.041378	3.018	
			19723.8729	0.214779	220.669	0.012331
31°25'	46192.9062	30.796311	5212.5790	0.041370	3.018	
			19736.7596	0.214855	220.892	0.012331
31°26'	48040.6848	30.796391	5215.0612	0.041363	3.019	
			19749.6509	0.214931	221.115	0.012331
31°27'	49888.4682	30.796471	5217.5430	0.041356	3.019	
			19762.5468	0.215007	221.338	0.012331
31°28'	51736.2565	30.796551	5220.0243	0.041348	3.019	
			19775.4472	0.215084	221.562	0.012331
31°29'	53584.0496	30.796631	5222.5052	0.041341	3.020	
			19788.3523	0.215160	221.786	0.012331
31°30'	55431.8475	30.796712	5224.9856	0.041333	3.020	
			19801.2619	0.215236	222.010	0.012331
31°31'	57279.6502	30.796792	5227.4657	0.041326	3.020	
			19814.1760	0.215313	222.234	0.012331
31°32'	59127.4577	30.796872	5229.9452	0.041319	3.021	
			19827.0948	0.215389	222.458	0.012331
31°33'	60975.2700	30.796953	5232.4243	0.041311	3.021	
			19840.0182	0.215466	222.683	0.012331
31°34'	62823.0872	30.797033	5234.9030	0.041304	3.021	
			19852.9461	0.215542	222.908	0.012331
31°35'	64670.9092	30.797114	5237.3813	0.041297	3.022	
			19865.8787	0.215619	223.133	0.012331
31°36'	66518.7360	30.797194	5239.8591	0.041289	3.022	
			19878.8158	0.215696	223.359	0.012330
31°37'	68366.5677	30.797275	5242.3364	0.041282	3.022	
			19891.7576	0.215773	223.584	0.012330
31°38'	70214.4041	30.797355	5244.8133	0.041274	3.023	
			19904.7039	0.215850	223.810	0.012330
31°39'	72062.2454	30.797436	5247.2898	0.041267	3.023	
			19917.6549	0.215927	224.036	0.012330
31°40'	73910.0916	30.797516	5249.7658	0.041260	3.023	
			19930.6106	0.216004	224.263	0.012330
31°41'	75757.9425	30.797597	5252.2414	0.041252	3.024	
			19943.5708	0.216081	224.489	0.012330
31°42'	77605.7983	30.797677	5254.7165	0.041245	3.024	
			19956.5357	0.216159	224.716	0.012330
31°43'	79453.6590	30.797758	5257.1912	0.041237	3.024	
			19969.5052	0.216236	224.943	0.012330

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
31°44'	81301.5244	30.797838	5259.6654	0.041230	3.025	
			19982.4794	0.216314	225.170	0.012330
31°45'	83149.3948	30.797919	5262.1392	0.041223	3.025	
			19995.4582	0.216391	225.398	0.012330
31°46'	84997.2699	30.798000	5264.6126	0.041215	3.025	
			20008.4417	0.216469	225.626	0.012330
31°47'	86845.1499	30.798081	5267.0855	0.041208	3.026	
			20021.4298	0.216546	225.854	0.012330
31°48'	88693.0347	30.798161	5269.5580	0.041200	3.026	
			20034.4226	0.216624	226.082	0.012330
31°49'	90540.9244	30.798242	5272.0300	0.041193	3.026	
			20047.4200	0.216702	226.310	0.012330
31°50'	92388.8189	30.798323	5274.5015	0.041185	3.026	
			20060.4221	0.216780	226.539	0.012330
31°51'	94236.7183	30.798404	5276.9727	0.041178	3.027	
			20073.4289	0.216858	226.768	0.012330
31°52'	96084.6225	30.798484	5279.4433	0.041170	3.027	
			20086.4404	0.216936	226.997	0.012330
31°53'	97932.5316	30.798565	5281.9136	0.041163	3.027	
			20099.4565	0.217014	227.227	0.012330
31°54'	99780.4455	30.798646	5284.3833	0.041156	3.028	
			20112.4774	0.217092	227.457	0.012330
31°55'	101628.3642	30.798727	5286.8527	0.041148	3.028	
			20125.5029	0.217171	227.687	0.012330
31°56'	103476.2879	30.798808	5289.3216	0.041141	3.028	
			20138.5332	0.217249	227.917	0.012330
31°57'	105324.2163	30.798889	5291.7900	0.041133	3.029	
			20151.5681	0.217328	228.147	0.012330
31°58'	107172.1497	30.798970	5294.2580	0.041126	3.029	
			20164.6078	0.217406	228.378	0.012330
31°59'	109020.0879	30.799051	5296.7255	0.041118	3.029	
			20177.6521	0.217485	228.609	0.012330
32° 0'	110868.0309	30.799132	5299.1926	0.041111	3.029	
			20190.7012	0.217563	228.840	0.012329
32° 1'	112715.9788	30.799213	5301.6593	0.041103	3.030	
			20203.7550	0.217642	229.071	0.012329
32° 2'	114563.9316	30.799294	5304.1255	0.041096	3.030	
			20216.8136	0.217721	229.303	0.012329
32° 3'	116411.8892	30.799375	5306.5912	0.041088	3.030	
			20229.8768	0.217800	229.535	0.012329
32° 4'	118259.8517	30.799456	5309.0565	0.041081	3.031	
			20242.9449	0.217879	229.767	0.012329
32° 5'	120107.8191	30.799537	5311.5214	0.041073	3.031	
			20256.0176	0.217958	230.000	0.012329

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32° 6'	121955.7913	30.799618	5313.9858	0.041066	3.031	
			20269.0951	0.218037	230.232	0.012329
32° 7'	123803.7684	30.799700	5316.4497	0.041058	3.031	
			20282.1774	0.218117	230.465	0.012329
32° 8'	125651.7504	30.799781	5318.9133	0.041051	3.032	
			20295.2644	0.218196	230.698	0.012329
32° 9'	127499.7373	30.799862	5321.3763	0.041043	3.032	
			20308.3561	0.218276	230.932	0.012329
32°10'	129347.7290	30.799943	5323.8389	0.041036	3.032	
			20321.4527	0.218355	231.165	0.012329
32°11'	131195.7256	30.800024	5326.3011	0.041028	3.033	
			20334.5540	0.218435	231.399	0.012329
32°12'	133043.7270	30.800106	5328.7628	0.041021	3.033	
			20347.6600	0.218514	231.633	0.012329
32°13'	134891.7334	30.800187	5331.2240	0.041013	3.033	
			20360.7709	0.218594	231.868	0.012329
32°14'	136739.7446	30.800268	5333.6848	0.041006	3.033	
			20373.8866	0.218674	232.103	0.012329
32°15'	138587.7607	30.800350	5336.1452	0.040998	3.034	
			20387.0070	0.218754	232.337	0.012329
32°16'	140435.7817	30.800431	5338.6051	0.040991	3.034	
			20400.1322	0.218834	232.573	0.012329
32°17'	142283.8076	30.800513	5341.0645	0.040983	3.034	
			20413.2623	0.218914	232.808	0.012329
32°18'	144131.8383	30.800594	5343.5235	0.040976	3.035	
			20426.3971	0.218994	233.044	0.012329
32°19'	145979.8740	30.800675	5345.9820	0.040968	3.035	
			20439.5368	0.219074	233.280	0.012329
32°20'	147827.9145	30.800757	5348.4401	0.040961	3.035	
			20452.6812	0.219155	233.516	0.012329
32°21'	149675.9599	30.800838	5350.8978	0.040953	3.035	
			20465.8305	0.219235	233.752	0.012329
32°22'	151524.0102	30.800920	5353.3549	0.040946	3.036	
			20478.9846	0.219316	233.989	0.012329
32°23'	153372.0654	30.801001	5355.8117	0.040938	3.036	
			20492.1435	0.219396	234.226	0.012328
32°24'	155220.1255	30.801083	5358.2679	0.040930	3.036	
			20505.3073	0.219477	234.463	0.012328
32°25'	157068.1905	30.801165	5360.7238	0.040923	3.036	
			20518.4759	0.219558	234.700	0.012328
32°26'	158916.2604	30.801246	5363.1791	0.040915	3.037	
			20531.6494	0.219638	234.938	0.012328
32°27'	160764.3351	30.801328	5365.6341	0.040908	3.037	
			20544.8277	0.219719	235.176	0.012328

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0005	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°28'	162612.4148	30.801410	5368.0885	0.040900	3.037	
			20558.0109	0.219800	235.414	0.012328
32°29'	164460.4994	30.801491	5370.5425	0.040893	3.037	
			20571.1989	0.219881	235.653	0.012328
32°30'	166308.5889	30.801573	5372.9961	0.040885	3.038	
			20584.3918	0.219963	235.891	0.012328
32°31'	168156.6832	30.801655	5375.4492	0.040877	3.038	
			20597.5895	0.220044	236.130	0.012328
32°32'	170004.7825	30.801736	5377.9018	0.040870	3.038	
			20610.7921	0.220125	236.369	0.012328
32°33'	171852.8867	30.801818	5380.3540	0.040862	3.038	
			20623.9996	0.220206	236.609	0.012328
32°34'	173700.9958	30.801900	5382.8057	0.040855	3.039	
			20637.2120	0.220288	236.849	0.012328
32°35'	175549.1098	30.801982	5385.2570	0.040847	3.039	
			20650.4293	0.220370	237.089	0.012328
32°36'	177397.2287	30.802064	5387.7079	0.040839	3.039	
			20663.6515	0.220451	237.329	0.012328
32°37'	179245.3525	30.802145	5390.1582	0.040832	3.039	
			20676.8786	0.220533	237.569	0.012328
32°38'	181093.4812	30.802227	5392.6081	0.040824	3.039	
			20690.1105	0.220615	237.810	0.012328
32°39'	182941.6148	30.802309	5395.0576	0.040817	3.040	
			20703.3474	0.220697	238.051	0.012328
32°40'	184789.7534	30.802391	5397.5066	0.040809	3.040	
			20716.5892	0.220779	238.292	0.012328
32°41'	186637.8969	30.802473	5399.9551	0.040801	3.040	
			20729.8359	0.220861	238.534	0.012328
32°42'	188486.0453	30.802555	5402.4032	0.040794	3.040	
			20743.0876	0.220943	238.776	0.012328
32°43'	190334.1986	30.802637	5404.8508	0.040786	3.041	
			20756.3441	0.221025	239.018	0.012328
32°44'	192182.3568	30.802719	5407.2980	0.040779	3.041	
			20769.6056	0.221107	239.260	0.012328
32°45'	194030.5199	30.802801	5409.7447	0.040771	3.041	
			20782.8721	0.221190	239.503	0.012328
32°46'	195878.6880	30.802883	5412.1910	0.040763	3.041	
			20796.1435	0.221272	239.746	0.012327
32°47'	197726.8610	30.802965	5414.6368	0.040756	3.041	
			20809.4198	0.221355	239.989	0.012327
32°48'	199575.0389	30.803047	5417.0821	0.040748	3.042	
			20822.7011	0.221437	240.232	0.012327
32°49'	201423.2217	30.803129	5419.5270	0.040740	3.042	
			20835.9873	0.221520	240.476	0.012327

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0005	-0.0006	(XIV)	0.0000	-0.0003	-0.0006	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
32°50'	203271.4095	30.803212	5421.9714	0.040733	3.042	
			20849.2786	0.221603	240.720	0.012327
32°51'	205119.6022	30.803294	5424.4154	0.040725	3.042	
			20862.5747	0.221686	240.964	0.012327
32°52'	206967.7998	30.803376	5426.8589	0.040717	3.043	
			20875.8759	0.221769	241.208	0.012327
32°53'	208816.0024	30.803458	5429.3019	0.040710	3.043	
			20889.1820	0.221852	241.453	0.012327
32°54'	210664.2098	30.803540	5431.7445	0.040702	3.043	
			20902.4931	0.221935	241.698	0.012327
32°55'	212512.4223	30.803623	5434.1866	0.040694	3.043	
			20915.8092	0.222018	241.943	0.012327
32°56'	214360.6396	30.803705	5436.6283	0.040687	3.043	
			20929.1303	0.222102	242.189	0.012327
32°57'	216208.8619	30.803787	5439.0695	0.040679	3.044	
			20942.4564	0.222185	242.435	0.012327
32°58'	218057.0891	30.803869	5441.5102	0.040671	3.044	
			20955.7875	0.222269	242.681	0.012327
32°59'	219905.3213	30.803952	5443.9505	0.040664	3.044	
			20969.1237	0.222352	242.927	0.012327
33° 0'	221753.5584	30.804034	5446.3904	0.040656	3.044	
			20982.4648	0.222436	243.173	0.012327
33° 1'	223601.8005	30.804117	5448.8297	0.040648	3.044	
			20995.8109	0.222520	243.420	0.012327
33° 2'	225450.0475	30.804199	5451.2686	0.040641	3.045	
			21009.1621	0.222603	243.667	0.012327
33° 3'	227298.2994	30.804281	5453.7071	0.040633	3.045	
			21022.5183	0.222687	243.915	0.012327
33° 4'	229146.5563	30.804364	5456.1450	0.040625	3.045	
			21035.8796	0.222771	244.162	0.012327
33° 5'	230994.8181	30.804446	5458.5826	0.040618	3.045	
			21049.2458	0.222855	244.410	0.012327
33° 6'	232843.0849	30.804529	5461.0196	0.040610	3.045	
			21062.6172	0.222940	244.659	0.012327
33° 7'	234691.3566	30.804611	5463.4562	0.040602	3.046	
			21075.9935	0.223024	244.907	0.012327
33° 8'	236539.6333	30.804694	5465.8923	0.040594	3.046	
			21089.3750	0.223108	245.156	0.012326
33° 9'	238387.9149	30.804776	5468.3280	0.040587	3.046	
			21102.7614	0.223193	245.405	0.012326
33°10'	240236.2015	30.804859	5470.7632	0.040579	3.046	
			21116.1530	0.223277	245.654	0.012326
33°11'	242084.4931	30.804942	5473.1980	0.040571	3.046	
			21129.5496	0.223362	245.904	0.012326

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0006

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°12'	243932.7896	30.805024	5475.6322	0.040564	3.046	
			21142.9513	0.223446	246.153	0.012326
33°13'	245781.0910	30.805107	5478.0661	0.040556	3.047	
			21156.3581	0.223531	246.404	0.012326
33°14'	247629.3974	30.805190	5480.4994	0.040548	3.047	
			21169.7700	0.223616	246.654	0.012326
33°15'	249477.7088	30.805272	5482.9323	0.040540	3.047	
			21183.1870	0.223701	246.905	0.012326
33°16'	251326.0251	30.805355	5485.3647	0.040533	3.047	
			21196.6090	0.223786	247.155	0.012326
33°17'	253174.3464	30.805438	5487.7967	0.040525	3.047	
			21210.0362	0.223871	247.407	0.012326
33°18'	255022.6727	30.805520	5490.2282	0.040517	3.047	
			21223.4684	0.223956	247.658	0.012326
33°19'	256871.0039	30.805603	5492.6592	0.040509	3.048	
			21236.9058	0.224042	247.910	0.012326
33°20'	258719.3401	30.805686	5495.0898	0.040502	3.048	
			21250.3483	0.224127	248.162	0.012326
33°21'	260567.6813	30.805769	5497.5199	0.040494	3.048	
			21263.7960	0.224213	248.414	0.012326
33°22'	262416.0274	30.805852	5499.9495	0.040486	3.048	
			21277.2487	0.224298	248.667	0.012326
33°23'	264264.3785	30.805934	5502.3787	0.040478	3.048	
			21290.7066	0.224384	248.920	0.012326
33°24'	266112.7346	30.806017	5504.8074	0.040471	3.048	
			21304.1696	0.224469	249.173	0.012326
33°25'	267961.0956	30.806100	5507.2356	0.040463	3.049	
			21317.6378	0.224555	249.426	0.012326
33°26'	269809.4616	30.806183	5509.6634	0.040455	3.049	
			21331.1111	0.224641	249.680	0.012326
33°27'	271657.8326	30.806266	5512.0907	0.040447	3.049	
			21344.5896	0.224727	249.934	0.012326
33°28'	273506.2086	30.806349	5514.5176	0.040440	3.049	
			21358.0732	0.224813	250.188	0.012326
33°29'	275354.5895	30.806432	5516.9439	0.040432	3.049	
			21371.5620	0.224899	250.443	0.012326
33°30'	277202.9754	30.806515	5519.3699	0.040424	3.049	
			21385.0560	0.224986	250.697	0.012326
33°31'	279051.3663	30.806598	5521.7953	0.040416	3.050	
			21398.5551	0.225072	250.952	0.012325
33°32'	280899.7622	30.806681	5524.2203	0.040408	3.050	
			21412.0594	0.225158	251.208	0.012325
33°33'	282748.1631	30.806764	5526.6448	0.040401	3.050	
			21425.5689	0.225245	251.463	0.012325

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°34'	284596.5689	30.806847	5529.0688	0.040393	3.050	
			21439.0836	0.225332	251.719	0.012325
33°35'	286444.9798	30.806930	5531.4924	0.040385	3.050	
			21452.6035	0.225418	251.976	0.012325
33°36'	288293.3956	30.807013	5533.9155	0.040377	3.050	
			21466.1286	0.225505	252.232	0.012325
33°37'	290141.8164	30.807097	5536.3381	0.040369	3.050	
			21479.6589	0.225592	252.489	0.012325
33°38'	291990.2422	30.807180	5538.7603	0.040362	3.051	
			21493.1944	0.225679	252.746	0.012325
33°39'	293838.6730	30.807263	5541.1820	0.040354	3.051	
			21506.7352	0.225766	253.003	0.012325
33°40'	295687.1088	30.807346	5543.6032	0.040346	3.051	
			21520.2811	0.225853	253.261	0.012325
33°41'	297535.5495	30.807429	5546.0240	0.040338	3.051	
			21533.8323	0.225940	253.519	0.012325
33°42'	299383.9953	30.807513	5548.4443	0.040330	3.051	
			21547.3888	0.226028	253.777	0.012325
33°43'	301232.4461	30.807596	5550.8641	0.040323	3.051	
			21560.9504	0.226115	254.036	0.012325
33°44'	303080.9018	30.807679	5553.2834	0.040315	3.051	
			21574.5173	0.226203	254.294	0.012325
33°45'	304929.3626	30.807763	5555.7023	0.040307	3.051	
			21588.0895	0.226290	254.553	0.012325
33°46'	306777.8283	30.807846	5558.1207	0.040299	3.052	
			21601.6669	0.226378	254.813	0.012325
33°47'	308626.2991	30.807929	5560.5387	0.040291	3.052	
			21615.2496	0.226466	255.072	0.012325
33°48'	310474.7748	30.808013	5562.9562	0.040283	3.052	
			21628.8375	0.226553	255.332	0.012325
33°49'	312323.2556	30.808096	5565.3732	0.040275	3.052	
			21642.4307	0.226641	255.593	0.012325
33°50'	314171.7413	30.808179	5567.7897	0.040268	3.052	
			21656.0292	0.226729	255.853	0.012325
33°51'	316020.2321	30.808263	5570.2057	0.040260	3.052	
			21669.6330	0.226818	256.114	0.012325
33°52'	317868.7279	30.808346	5572.6213	0.040252	3.052	
			21683.2420	0.226906	256.375	0.012325
33°53'	319717.2286	30.808430	5575.0364	0.040244	3.052	
			21696.8564	0.226994	256.636	0.012324
33°54'	321565.7344	30.808513	5577.4511	0.040236	3.053	
			21710.4760	0.227083	256.898	0.012324
33°55'	323414.2452	30.808597	5579.8653	0.040228	3.053	
			21724.1010	0.227171	257.160	0.012324

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
33°56'	325262.7610	30.808680	5582.2790	0.040220	3.053	
			21737.7312	0.227260	257.422	0.012324
33°57'	327111.2818	30.808764	5584.6922	0.040213	3.053	
			21751.3668	0.227348	257.685	0.012324
33°58'	328959.8077	30.808847	5587.1049	0.040205	3.053	
			21765.0077	0.227437	257.948	0.012324
33°59'	330808.3385	30.808931	5589.5172	0.040197	3.053	
			21778.6539	0.227526	258.211	0.012324
34° 0'	332656.8744	30.809015	5591.9290	0.040189	3.053	
			21792.3054	0.227615	258.474	0.012324
34° 1'	334505.4153	30.809098	5594.3404	0.040181	3.053	
			21805.9623	0.227704	258.738	0.012324
34° 2'	336353.9611	30.809182	5596.7512	0.040173	3.053	
			21819.6246	0.227793	259.002	0.012324
34° 3'	338202.5121	30.809266	5599.1616	0.040165	3.053	
			21833.2921	0.227882	259.266	0.012324
34° 4'	340051.0680	30.809349	5601.5715	0.040157	3.054	
			21846.9651	0.227971	259.531	0.012324
34° 5'	341899.6290	30.809433	5603.9810	0.040149	3.054	
			21860.6434	0.228061	259.796	0.012324
34° 6'	343748.1949	30.809517	5606.3899	0.040142	3.054	
			21874.3270	0.228150	260.061	0.012324
34° 7'	345596.7659	30.809600	5608.7984	0.040134	3.054	
			21888.0160	0.228240	260.326	0.012324
34° 8'	347445.3420	30.809684	5611.2065	0.040126	3.054	
			21901.7104	0.228330	260.592	0.012324
34° 9'	349293.9230	30.809768	5613.6140	0.040118	3.054	
			21915.4102	0.228419	260.858	0.012324
34°10'	351142.5091	30.809852	5616.0211	0.040110	3.054	
			21929.1154	0.228509	261.125	0.012324
34°11'	352991.1002	30.809936	5618.4277	0.040102	3.054	
			21942.8259	0.228599	261.391	0.012324
34°12'	354839.6964	30.810020	5620.8338	0.040094	3.054	
			21956.5419	0.228689	261.658	0.012324
34°13'	356688.2975	30.810103	5623.2394	0.040086	3.054	
			21970.2632	0.228779	261.925	0.012324
34°14'	358536.9037	30.810187	5625.6446	0.040078	3.054	
			21983.9900	0.228870	262.193	0.012324
34°15'	360385.5150	30.810271	5628.0493	0.040070	3.055	
			21997.7222	0.228960	262.461	0.012324
34°16'	362234.1313	30.810355	5630.4535	0.040062	3.055	
			22011.4597	0.229050	262.729	0.012323
34°17'	364082.7526	30.810439	5632.8572	0.040054	3.055	
			22025.2028	0.229141	262.998	0.012323

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0003	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°18'	365931.3789	30.810523	5635.2605	0.040046	3.055	
			22038.9512	0.229231	263.266	0.012323
34°19'	367780.0103	30.810607	5637.6633	0.040038	3.055	
			22052.7051	0.229322	263.535	0.012323
34°20'	369628.6467	30.810691	5640.0656	0.040030	3.055	
			22066.4644	0.229413	263.805	0.012323
34°21'	371477.2882	30.810775	5642.4674	0.040023	3.055	
			22080.2292	0.229504	264.075	0.012323
34°22'	373325.9347	30.810859	5644.8688	0.040015	3.055	
			22093.9994	0.229595	264.345	0.012323
34°23'	375174.5862	30.810943	5647.2696	0.040007	3.055	
			22107.7751	0.229686	264.615	0.012323
34°24'	377023.2428	30.811027	5649.6700	0.039999	3.055	
			22121.5562	0.229777	264.885	0.012323
34°25'	378871.9045	30.811111	5652.0700	0.039991	3.055	
			22135.3428	0.229868	265.156	0.012323
34°26'	380720.5712	30.811196	5654.4694	0.039983	3.055	
			22149.1349	0.229959	265.428	0.012323
34°27'	382569.2429	30.811280	5656.8684	0.039975	3.055	
			22162.9325	0.230051	265.699	0.012323
34°28'	384417.9197	30.811364	5659.2668	0.039967	3.055	
			22176.7356	0.230142	265.971	0.012323
34°29'	386266.6015	30.811448	5661.6648	0.039959	3.055	
			22190.5441	0.230234	266.243	0.012323
34°30'	388115.2884	30.811532	5664.0624	0.039951	3.056	
			22204.3581	0.230326	266.515	0.012323
34°31'	389963.9803	30.811616	5666.4594	0.039943	3.056	
			22218.1777	0.230418	266.788	0.012323
34°32'	391812.6773	30.811701	5668.8560	0.039935	3.056	
			22232.0027	0.230509	267.061	0.012323
34°33'	393661.3793	30.811785	5671.2521	0.039927	3.056	
			22245.8333	0.230601	267.335	0.012323
34°34'	395510.0864	30.811869	5673.6477	0.039919	3.056	
			22259.6694	0.230694	267.608	0.012323
34°35'	397358.7986	30.811954	5676.0428	0.039911	3.056	
			22273.5110	0.230786	267.882	0.012323
34°36'	399207.5158	30.812038	5678.4375	0.039903	3.056	
			22287.3582	0.230878	268.157	0.012323
34°37'	401056.2381	30.812122	5680.8316	0.039895	3.056	
			22301.2108	0.230970	268.431	0.012323
34°38'	402904.9654	30.812207	5683.2253	0.039887	3.056	
			22315.0691	0.231063	268.706	0.012322
34°39'	404753.6978	30.812291	5685.6185	0.039879	3.056	
			22328.9328	0.231155	268.981	0.012322

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
34°40'	406602.4353	30.812375	5688.0112	0.039871	3.056	
			22342.8022	0.231248	269.257	0.012322
34°41'	408451.1778	30.812460	5690.4035	0.039863	3.056	
			22356.6771	0.231341	269.533	0.012322
34°42'	410299.9254	30.812544	5692.7952	0.039855	3.056	
			22370.5575	0.231434	269.809	0.012322
34°43'	412148.6780	30.812629	5695.1865	0.039847	3.056	
			22384.4435	0.231527	270.085	0.012322
34°44'	413997.4357	30.812713	5697.5773	0.039839	3.056	
			22398.3351	0.231620	270.362	0.012322
34°45'	415846.1985	30.812798	5699.9676	0.039831	3.056	
			22412.2323	0.231713	270.639	0.012322
34°46'	417694.9664	30.812882	5702.3575	0.039823	3.056	
			22426.1351	0.231806	270.917	0.012322
34°47'	419543.7393	30.812967	5704.7468	0.039814	3.056	
			22440.0435	0.231899	271.194	0.012322
34°48'	421392.5173	30.813051	5707.1357	0.039806	3.056	
			22453.9574	0.231993	271.472	0.012322
34°49'	423241.3004	30.813136	5709.5241	0.039798	3.056	
			22467.8770	0.232086	271.751	0.012322
34°50'	425090.0885	30.813220	5711.9120	0.039790	3.056	
			22481.8022	0.232180	272.030	0.012322
34°51'	426938.8817	30.813305	5714.2994	0.039782	3.056	
			22495.7330	0.232274	272.309	0.012322
34°52'	428787.6800	30.813389	5716.6863	0.039774	3.056	
			22509.6694	0.232368	272.588	0.012322
34°53'	430636.4834	30.813474	5719.0728	0.039766	3.056	
			22523.6114	0.232461	272.868	0.012322
34°54'	432485.2918	30.813559	5721.4587	0.039758	3.056	
			22537.5591	0.232555	273.147	0.012322
34°55'	434334.1054	30.813643	5723.8442	0.039750	3.056	
			22551.5125	0.232650	273.428	0.012322
34°56'	436182.9240	30.813728	5726.2292	0.039742	3.056	
			22565.4714	0.232744	273.708	0.012322
34°57'	438031.7477	30.813813	5728.6137	0.039734	3.056	
			22579.4360	0.232838	273.989	0.012322
34°58'	439880.5764	30.813898	5730.9978	0.039726	3.056	
			22593.4063	0.232932	274.271	0.012322
34°59'	441729.4103	30.813982	5733.3813	0.039718	3.056	
			22607.3823	0.233027	274.552	0.012322
35° 0'	443578.2492	30.814067	5735.7644	0.039710	3.056	
			22621.3639	0.233121	274.834	0.012321
35° 1'	445427.0932	30.814152	5738.1469	0.039701	3.056	
			22635.3512	0.233216	275.116	0.012321

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35° 2'	447275.9424	30.814237	5740.5290	0.039693	3.056	
			22649.3441	0.233311	275.399	0.012321
35° 3'	449124.7966	30.814322	5742.9106	0.039685	3.056	
			22663.3428	0.233406	275.682	0.012321
35° 4'	450973.6559	30.814406	5745.2917	0.039677	3.056	
			22677.3471	0.233501	275.965	0.012321
35° 5'	452822.5202	30.814491	5747.6724	0.039669	3.056	
			22691.3572	0.233596	276.248	0.012321
35° 6'	454671.3897	30.814576	5750.0525	0.039661	3.056	
			22705.3729	0.233691	276.532	0.012321
35° 7'	456520.2643	30.814661	5752.4322	0.039653	3.056	
			22719.3944	0.233786	276.816	0.012321
35° 8'	458369.1439	30.814746	5754.8113	0.039645	3.056	
			22733.4216	0.233882	277.101	0.012321
35° 9'	460218.0287	30.814831	5757.1900	0.039637	3.056	
			22747.4545	0.233977	277.386	0.012321
35°10'	462066.9185	30.814916	5759.5682	0.039628	3.056	
			22761.4931	0.234073	277.671	0.012321
35°11'	463915.8135	30.815001	5761.9459	0.039620	3.056	
			22775.5375	0.234168	277.956	0.012321
35°12'	465764.7135	30.815086	5764.3232	0.039612	3.056	
			22789.5876	0.234264	278.242	0.012321
35°13'	467613.6187	30.815171	5766.6999	0.039604	3.056	
			22803.6434	0.234360	278.528	0.012321
35°14'	469462.5289	30.815256	5769.0761	0.039596	3.056	
			22817.7050	0.234456	278.814	0.012321
35°15'	471311.4443	30.815341	5771.4519	0.039588	3.056	
			22831.7724	0.234552	279.101	0.012321
35°16'	473160.3647	30.815426	5773.8272	0.039580	3.056	
			22845.8455	0.234648	279.388	0.012321
35°17'	475009.2902	30.815511	5776.2020	0.039572	3.056	
			22859.9244	0.234744	279.676	0.012321
35°18'	476858.2209	30.815596	5778.5762	0.039563	3.056	
			22874.0091	0.234841	279.964	0.012321
35°19'	478707.1567	30.815681	5780.9500	0.039555	3.056	
			22888.0995	0.234937	280.252	0.012321
35°20'	480556.0975	30.815766	5783.3234	0.039547	3.056	
			22902.1957	0.235034	280.540	0.012321
35°21'	482405.0435	30.815851	5785.6962	0.039539	3.056	
			22916.2978	0.235130	280.829	0.012321
35°22'	484253.9946	30.815937	5788.0685	0.039531	3.056	
			22930.4056	0.235227	281.118	0.012320
35°23'	486102.9508	30.816022	5790.4404	0.039523	3.056	
			22944.5192	0.235324	281.407	0.012320

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0006	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°24'	487951.9121	30.816107	5792.8117	0.039514	3.056	
			22958.6387	0.235421	281.697	0.012320
35°25'	489800.8785	30.816192	5795.1826	0.039506	3.056	
			22972.7639	0.235518	281.987	0.012320
35°26'	491649.8500	30.816277	5797.5530	0.039498	3.056	
			22986.8950	0.235615	282.278	0.012320
35°27'	493498.8267	30.816363	5799.9228	0.039490	3.056	
			23001.0319	0.235712	282.568	0.012320
35°28'	495347.8084	30.816448	5802.2922	0.039482	3.056	
			23015.1747	0.235810	282.859	0.012320
35°29'	497196.7953	30.816533	5804.6611	0.039474	3.056	
			23029.3232	0.235907	283.151	0.012320
35°30'	499045.7873	30.816618	5807.0296	0.039465	3.056	
			23043.4777	0.236005	283.443	0.012320
35°31'	500894.7844	30.816704	5809.3975	0.039457	3.056	
			23057.6380	0.236102	283.735	0.012320
35°32'	502743.7866	30.816789	5811.7649	0.039449	3.056	
			23071.8041	0.236200	284.027	0.012320
35°33'	504592.7940	30.816874	5814.1318	0.039441	3.056	
			23085.9761	0.236298	284.320	0.012320
35°34'	506441.8064	30.816960	5816.4983	0.039433	3.056	
			23100.1540	0.236396	284.613	0.012320
35°35'	508290.8240	30.817045	5818.8642	0.039424	3.056	
			23114.3378	0.236494	284.907	0.012320
35°36'	510139.8467	30.817131	5821.2297	0.039416	3.056	
			23128.5274	0.236592	285.200	0.012320
35°37'	511988.8746	30.817216	5823.5947	0.039408	3.056	
			23142.7230	0.236691	285.495	0.012320
35°38'	513837.9075	30.817302	5825.9591	0.039400	3.056	
			23156.9244	0.236789	285.789	0.012320
35°39'	515686.9456	30.817387	5828.3231	0.039391	3.056	
			23171.1317	0.236887	286.084	0.012320
35°40'	517535.9889	30.817472	5830.6866	0.039383	3.056	
			23185.3450	0.236986	286.379	0.012320
35°41'	519385.0372	30.817558	5833.0496	0.039375	3.055	
			23199.5641	0.237085	286.675	0.012320
35°42'	521234.0907	30.817643	5835.4121	0.039367	3.055	
			23213.7892	0.237183	286.971	0.012320
35°43'	523083.1493	30.817729	5837.7741	0.039359	3.055	
			23228.0202	0.237282	287.267	0.012320
35°44'	524932.2130	30.817815	5840.1356	0.039350	3.055	
			23242.2571	0.237381	287.563	0.012319
35°45'	526781.2819	30.817900	5842.4967	0.039342	3.055	
			23256.5000	0.237480	287.860	0.012319

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0007

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
35°46'	528630.3559	30.817986	5844.8572	0.039334	3.055	
			23270.7488	0.237580	288.157	0.012319
35°47'	530479.4350	30.818071	5847.2172	0.039326	3.055	
			23285.0036	0.237679	288.455	0.012319
35°48'	532328.5193	30.818157	5849.5767	0.039317	3.055	
			23299.2643	0.237778	288.753	0.012319
35°49'	534177.6087	30.818243	5851.9358	0.039309	3.055	
			23313.5310	0.237878	289.051	0.012319
35°50'	536026.7033	30.818328	5854.2943	0.039301	3.055	
			23327.8037	0.237977	289.350	0.012319
35°51'	537875.8030	30.818414	5856.6524	0.039293	3.055	
			23342.0823	0.238077	289.649	0.012319
35°52'	539724.9078	30.818499	5859.0099	0.039284	3.055	
			23356.3669	0.238177	289.948	0.012319
35°53'	541574.0178	30.818585	5861.3670	0.039276	3.055	
			23370.6575	0.238277	290.248	0.012319
35°54'	543423.1329	30.818671	5863.7236	0.039268	3.055	
			23384.9541	0.238377	290.548	0.012319
35°55'	545272.2531	30.818757	5866.0796	0.039260	3.055	
			23399.2567	0.238477	290.848	0.012319
35°56'	547121.3785	30.818842	5868.4352	0.039251	3.054	
			23413.5654	0.238577	291.149	0.012319
35°57'	548970.5091	30.818928	5870.7903	0.039243	3.054	
			23427.8800	0.238677	291.450	0.012319
35°58'	550819.6448	30.819014	5873.1449	0.039235	3.054	
			23442.2006	0.238778	291.752	0.012319
35°59'	552668.7856	30.819100	5875.4989	0.039226	3.054	
			23456.5273	0.238878	292.053	0.012319
36° 0'	554517.9316	30.819186	5877.8525	0.039218	3.054	
			23470.8600	0.238979	292.356	0.012319
36° 1'	556367.0827	30.819271	5880.2056	0.039210	3.054	
			23485.1987	0.239080	292.658	0.012319
36° 2'	558216.2390	30.819357	5882.5582	0.039202	3.054	
			23499.5435	0.239180	292.961	0.012319
36° 3'	560065.4004	30.819443	5884.9103	0.039193	3.054	
			23513.8943	0.239281	293.264	0.012319
36° 4'	561914.5670	30.819529	5887.2619	0.039185	3.054	
			23528.2512	0.239382	293.568	0.012319
36° 5'	563763.7388	30.819615	5889.6130	0.039177	3.054	
			23542.6142	0.239484	293.872	0.012319
36° 6'	565612.9156	30.819701	5891.9636	0.039168	3.054	
			23556.9832	0.239585	294.176	0.012318
36° 7'	567462.0977	30.819787	5894.3137	0.039160	3.054	
			23571.3583	0.239686	294.481	0.012318

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36° 8'	569311.2849	30.819873	5896.6633	0.039152	3.053	
			23585.7394	0.239788	294.786	0.012318
36° 9'	571160.4773	30.819959	5899.0124	0.039143	3.053	
			23600.1267	0.239889	295.091	0.012318
36°10'	573009.6748	30.820045	5901.3610	0.039135	3.053	
			23614.5201	0.239991	295.397	0.012318
36°11'	574858.8774	30.820131	5903.7091	0.039127	3.053	
			23628.9195	0.240093	295.703	0.012318
36°12'	576708.0853	30.820217	5906.0567	0.039118	3.053	
			23643.3251	0.240195	296.009	0.012318
36°13'	578557.2983	30.820303	5908.4038	0.039110	3.053	
			23657.7368	0.240297	296.316	0.012318
36°14'	580406.5164	30.820389	5910.7504	0.039102	3.053	
			23672.1546	0.240399	296.623	0.012318
36°15'	582255.7398	30.820475	5913.0965	0.039093	3.053	
			23686.5785	0.240501	296.931	0.012318
36°16'	584104.9682	30.820561	5915.4421	0.039085	3.053	
			23701.0086	0.240603	297.238	0.012318
36°17'	585954.2019	30.820647	5917.7872	0.039077	3.052	
			23715.4448	0.240706	297.547	0.012318
36°18'	587803.4407	30.820733	5920.1318	0.039068	3.052	
			23729.8871	0.240808	297.855	0.012318
36°19'	589652.6847	30.820819	5922.4759	0.039060	3.052	
			23744.3356	0.240911	298.164	0.012318
36°20'	591501.9338	30.820905	5924.8195	0.039052	3.052	
			23758.7902	0.241014	298.474	0.012318
36°21'	593351.1882	30.820991	5927.1626	0.039043	3.052	
			23773.2511	0.241116	298.783	0.012318
36°22'	595200.4476	30.821078	5929.5052	0.039035	3.052	
			23787.7180	0.241219	299.093	0.012318
36°23'	597049.7123	30.821164	5931.8473	0.039027	3.052	
			23802.1912	0.241323	299.404	0.012318
36°24'	598898.9821	30.821250	5934.1889	0.039018	3.052	
			23816.6706	0.241426	299.715	0.012318
36°25'	600748.2571	30.821336	5936.5300	0.039010	3.052	
			23831.1561	0.241529	300.026	0.012318
36°26'	602597.5373	30.821422	5938.8705	0.039001	3.051	
			23845.6478	0.241632	300.337	0.012318
36°27'	604446.8226	30.821509	5941.2106	0.038993	3.051	
			23860.1458	0.241736	300.649	0.012318
36°28'	606296.1132	30.821595	5943.5502	0.038985	3.051	
			23874.6499	0.241839	300.962	0.012317
36°29'	608145.4089	30.821681	5945.8893	0.038976	3.051	
			23889.1603	0.241943	301.274	0.012317

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
36°30'	609994.7097	30.821768	5948.2279	0.038968	3.051	
			23903.6769	0.242047	301.587	0.012317
36°31'	611844.0158	30.821854	5950.5659	0.038959	3.051	
			23918.1997	0.242151	301.901	0.012317
36°32'	613693.3270	30.821940	5952.9035	0.038951	3.051	
			23932.7288	0.242255	302.214	0.012317
36°33'	615542.6434	30.822027	5955.2406	0.038943	3.050	
			23947.2641	0.242359	302.528	0.012317
36°34'	617391.9650	30.822113	5957.5771	0.038934	3.050	
			23961.8056	0.242463	302.843	0.012317
36°35'	619241.2918	30.822199	5959.9132	0.038926	3.050	
			23976.3534	0.242568	303.158	0.012317
36°36'	621090.6238	30.822286	5962.2487	0.038917	3.050	
			23990.9075	0.242672	303.473	0.012317
36°37'	622939.9609	30.822372	5964.5838	0.038909	3.050	
			24005.4678	0.242777	303.789	0.012317
36°38'	624789.3032	30.822459	5966.9183	0.038901	3.050	
			24020.0344	0.242881	304.105	0.012317
36°39'	626638.6508	30.822545	5969.2524	0.038892	3.050	
			24034.6073	0.242986	304.421	0.012317
36°40'	628488.0035	30.822631	5971.5859	0.038884	3.050	
			24049.1865	0.243091	304.738	0.012317
36°41'	630337.3613	30.822718	5973.9189	0.038875	3.049	
			24063.7719	0.243196	305.055	0.012317
36°42'	632186.7244	30.822804	5976.2515	0.038867	3.049	
			24078.3637	0.243301	305.372	0.012317
36°43'	634036.0927	30.822891	5978.5835	0.038859	3.049	
			24092.9618	0.243406	305.690	0.012317
36°44'	635885.4661	30.822977	5980.9150	0.038850	3.049	
			24107.5662	0.243512	306.009	0.012317
36°45'	637734.8448	30.823064	5983.2460	0.038842	3.049	
			24122.1769	0.243617	306.327	0.012317
36°46'	639584.2286	30.823150	5985.5765	0.038833	3.049	
			24136.7939	0.243723	306.646	0.012317
36°47'	641433.6176	30.823237	5987.9065	0.038825	3.048	
			24151.4173	0.243829	306.966	0.012317
36°48'	643283.0119	30.823324	5990.2360	0.038816	3.048	
			24166.0470	0.243934	307.286	0.012317
36°49'	645132.4113	30.823410	5992.5650	0.038808	3.048	
			24180.6830	0.244040	307.606	0.012317
36°50'	646981.8159	30.823497	5994.8934	0.038799	3.048	
			24195.3255	0.244146	307.926	0.012316
36°51'	648831.2257	30.823583	5997.2214	0.038791	3.048	
			24209.9742	0.244252	308.247	0.012316

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0006	(XIV)	0.0000	-0.0004	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI
36°52'	650680.6407	30.823670	5999.5489	0.038783	3.048	
			24224.6294	0.244359	308.569	0.01231
36°53'	652530.0609	30.823757	6001.8758	0.038774	3.047	
			24239.2909	0.244465	308.890	0.01231
36°54'	654379.4863	30.823843	6004.2023	0.038766	3.047	
			24253.9588	0.244571	309.212	0.01231
36°55'	656228.9169	30.823930	6006.5282	0.038757	3.047	
			24268.6331	0.244678	309.535	0.01231
36°56'	658078.3527	30.824017	6008.8536	0.038749	3.047	
			24283.3137	0.244785	309.858	0.01231
36°57'	659927.7937	30.824104	6011.1785	0.038740	3.047	
			24298.0008	0.244891	310.181	0.01231
36°58'	661777.2400	30.824190	6013.5029	0.038732	3.047	
			24312.6943	0.244998	310.505	0.01231
36°59'	663626.6914	30.824277	6015.8268	0.038723	3.046	
			24327.3942	0.245105	310.829	0.01231
37° 0'	665476.1480	30.824364	6018.1502	0.038715	3.046	
			24342.1005	0.245212	311.153	0.01231
37° 1'	667325.6098	30.824451	6020.4731	0.038706	3.046	
			24356.8132	0.245320	311.478	0.01231
37° 2'	669175.0769	30.824537	6022.7955	0.038698	3.046	
			24371.5324	0.245427	311.803	0.01231
37° 3'	671024.5491	30.824624	6025.1173	0.038689	3.046	
			24386.2580	0.245534	312.129	0.01231
37° 4'	672874.0265	30.824711	6027.4387	0.038681	3.046	
			24400.9901	0.245642	312.455	0.01231
37° 5'	674723.5092	30.824798	6029.7595	0.038672	3.045	
			24415.7286	0.245750	312.781	0.01231
37° 6'	676572.9971	30.824885	6032.0799	0.038664	3.045	
			24430.4736	0.245857	313.108	0.01231
37° 7'	678422.4901	30.824971	6034.3997	0.038655	3.045	
			24445.2251	0.245965	313.435	0.01231
37° 8'	680271.9884	30.825058	6036.7190	0.038647	3.045	
			24459.9830	0.246073	313.762	0.01231
37° 9'	682121.4919	30.825145	6039.0378	0.038638	3.045	
			24474.7474	0.246182	314.090	0.01231
37°10'	683971.0006	30.825232	6041.3561	0.038630	3.044	
			24489.5183	0.246290	314.419	0.01231
37°11'	685820.5146	30.825319	6043.6739	0.038621	3.044	
			24504.2957	0.246398	314.747	0.01231
37°12'	687670.0337	30.825406	6045.9911	0.038613	3.044	
			24519.0795	0.246507	315.077	0.01231
37°13'	689519.5581	30.825493	6048.3079	0.038604	3.044	
			24533.8699	0.246615	315.406	0.01231

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Transverse Mercator projection tables

NEW MEXICO Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
37°14'	691369.0877	30.825580	6050.6241	0.038596	3.044	
			24548.6669	0.246724	315.736	0.012315
37°15'	693218.6225	30.825667	6052.9399	0.038587	3.043	
			24563.4703	0.246833	316.066	0.012315
37°16'	695068.1625	30.825754	6055.2551	0.038578	3.043	
			24578.2803	0.246942	316.397	0.012315
37°17'	696917.7077	30.825841	6057.5698	0.038570	3.043	
			24593.0968	0.247051	316.728	0.012315
37°18'	698767.2582	30.825928	6059.8840	0.038561	3.043	
			24607.9198	0.247160	317.060	0.012315
37°19'	700616.8138	30.826015	6062.1977	0.038553	3.043	
			24622.7494	0.247269	317.392	0.012315
37°20'	702466.3747	30.826102	6064.5109	0.038544	3.042	
			24637.5855	0.247379	317.724	0.012315

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0005	-0.0007	-0.0008

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is NEW YORK LONG IS

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 40° 10' (latitude of grid origin)
λ_{CM} = 74 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 40 (southern standard parallel)
ϕ_n = 41 2 (northern standard parallel)
$E_.$ = 300000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.654082091204 = $\sin(\phi_.)$
K = 12287232.6151 m (mapping radius at the equator)
R_b = 7462536.3011 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	40 51 0.00000 74 30 0.00000	7386654.547 m -0 19 37.34776	-0.0057079120 0.9999837097	257837.626 m 76002.085 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - $E_.$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	350000.000 m 80000.000 m	50000.000 m 7382536.301 m	7382705.6177 m 0 23 16.95658	40 53 8.0148 73 24 24.2489

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
NEW YORK LONG IS

Lat	R (meters)	tab diff.	k
40° 20'	7444028.808	30.84583	1.00003531
40 21	7442178.058	30.84584	1.00003275
40 22	7440327.307	30.84585	1.00003027
40 23	7438476.556	30.84587	1.00002788
40 24	7436625.804	30.84589	1.00002557
40 25	7434775.050	30.84591	1.00002334
40 26	7432924.296	30.84594	1.00002120
40 27	7431073.540	30.84596	1.00001914
40 28	7429222.782	30.84599	1.00001716
40 29	7427372.022	30.84603	1.00001527
40 30	7425521.261	30.84606	1.00001346
40 31	7423670.497	30.84610	1.00001174
40 32	7421819.731	30.84614	1.00001010
40 33	7419968.963	30.84618	1.00000854
40 34	7418118.192	30.84622	1.00000707
40 35	7416267.419	30.84627	1.00000568
40 36	7414416.642	30.84632	1.00000438
40 37	7412565.863	30.84638	1.00000316
40 38	7410715.080	30.84643	1.00000202
40 39	7408864.295	30.84649	1.00000097
40 40	7407013.505	30.84655	1.00000000
40 41	7405162.712	30.84661	0.99999912
40 42	7403311.915	30.84668	0.99999832
40 43	7401461.115	30.84675	0.99999760
40 44	7399610.310	30.84682	0.99999697
40 45	7397759.501	30.84689	0.99999642
40 46	7395908.687	30.84697	0.99999596
40 47	7394057.869	30.84705	0.99999558
40 48	7392207.046	30.84713	0.99999528
40 49	7390356.218	30.84721	0.99999507
40 50	7388505.385	30.84730	0.99999494
40 51	7386654.547	30.84739	0.99999490
40 52	7384803.704	30.84748	0.99999494
40 53	7382952.855	30.84758	0.99999507
40 54	7381102.000	30.84767	0.99999528
40 55	7379251.140	30.84777	0.99999557
40 56	7377400.273	30.84788	0.99999595
40 57	7375549.401	30.84798	0.99999642
40 58	7373698.522	30.84809	0.99999696
40 59	7371847.636	30.84820	0.99999760

Lambert conformal conic projection tables
NEW YORK LONG IS

Lat	R (meters)	tab diff.	k
41° 0'	7369996.744	30.84831	0.99999831
41 1	7368145.846	30.84843	0.99999911
41 2	7366294.940	30.84855	1.00000000
41 3	7364444.027	30.84867	1.00000097
41 4	7362593.107	30.84879	1.00000203
41 5	7360742.180	30.84892	1.00000316
41 6	7358891.245	30.84904	1.00000439
41 7	7357040.302	30.84918	1.00000570
41 8	7355189.351	30.84931	1.00000709
41 9	7353338.393	30.84945	1.00000857
41 10	7351487.426	30.84959	1.00001013
41 11	7349636.451	30.84973	1.00001178
41 12	7347785.467	30.84987	1.00001351
41 13	7345934.475	30.85002	1.00001533
41 14	7344083.474	30.85017	1.00001723
41 15	7342232.464	30.85032	1.00001922

TRANSVERSE MERCATOR PROJECTION

TABLES FOR NEW YORK COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW YORK EAST
ZONE CODE: 3101

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 38°50' (latitude of grid origin)
λ_b = 74°30' (longitude of origin and Central Meridian, CM)
E_0 = 150000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999900 (scale along Central Meridian)
latitude range from φ_{min} = 38°50' to φ_{max} = 45°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 39°15'23".54600
LONGITUDE: 75°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 46252.1566
23.54600 sec = 726.0626
SECOND DIFF = -0.0006
(I) = 46978.2185
TABULAR (II) = 3677.1857
23.54600 sec = 0.1719
(II) = 3677.3578
TABULAR (III) = 1.8870
$N = (I) + (II)p^2 + (III)p^4$ = 47219.933 m

TABULAR (IV) = 239755.8456
23.54600 sec = -22.2755
SECOND DIFF = 0.0024
(IV) = 239733.5725
TABULAR (V) = 18.9527
23.54600 sec = -0.0229
(V) = 18.9298
TABULAR (VI) = -0.0265
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -61462.133 m
$E = E_0 + E'$ = 88537.867 m

TABULAR (XII) = 6327.0533
23.54600 sec = 0.8839
(XII) = 6327.9372
TABULAR (XIII) = 3.0088
$C = (XII)p + (XIII)p^3$ = -1622".38

$q = 10^{-6} E'$ = -0.06146213
TABULAR (XVI) = 0.012310
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99994650

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.06146213$

$\varphi' = 39°15'31''.38475$

```
TABULAR  ( VII) =    2074.5355
   31.38475 sec =       0.6402
         ( VII) =    2075.1757
TABULAR  (VIII) =      29.5988
   31.38475 sec =       0.0143
         (VIII) =      29.6131
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 39°15'23''.54600$

```
TABULAR  (  IX) =   41709.0978
   31.38475 sec =       5.1665
   SECOND DIFF  =      -0.0010
         (  IX) =   41714.2632
TABULAR  (   X) =     398.7199
   31.38475 sec =       0.1903
         (   X) =     398.9102
TABULAR  (  XI) =       7.1958
   31.38475 sec =       0.0061
         (  XI) =       7.2019
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 75°12'43''.75499$

```
TABULAR  ( XIV) =   26389.5684
   31.38475 sec =       8.1840
   SECOND DIFF  =      -0.0009
         ( XIV) =   26397.7515
TABULAR  (  XV) =     358.8062
   31.38475 sec =       0.2007
         (  XV) =     359.0069
```

$C = (XIV)q - (XV)q^3 = -1622''.38$

```
TABULAR  ( XVI) =     0.012310
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99994650$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW YORK CENTRAL
ZONE CODE: 3102

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40° 0' (latitude of grid origin)
λ_b = 76°35' (longitude of origin and Central Meridian, CM)
E_0 = 250000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 40°00' to φ_{max} = 45°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 40°15'23".54600
LONGITUDE: 77°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.22637550
TABULAR (I) = 27757.5240
23.54600 sec = 726.2153
SECOND DIFF = -0.0006
(I) = 28483.7387
TABULAR (II) = 3701.4071
23.54600 sec = 0.1426
(II) = 3701.5498
TABULAR (III) = 1.8239
$N = (I) + (II)p^2 + (III)p^4$ = 28673.433 m

TABULAR (IV) = 236323.0727
23.54600 sec = -22.7526
SECOND DIFF = 0.0024
(IV) = 236300.3225
TABULAR (V) = 15.4914
23.54600 sec = -0.0224
(V) = 15.4690
TABULAR (VI) = -0.0277
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -53492.783 m
$E = E_0 + E'$ = 196507.217 m

TABULAR (XII) = 6461.2398
23.54600 sec = 0.8712
(XII) = 6462.1110
TABULAR (XIII) = 2.9837
$C = (XII)p + (XIII)p^3$ = -1462".90

$q = 10^{-6} E'$ = -0.05349278
TABULAR (XVI) = 0.012306
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99997271

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05349278$

$\varphi' = 40°15'29''.69643$

TABULAR	(VII) =	2148.8544
29.69643 sec	=	0.6234
	(VII) =	2149.4778
TABULAR	(VIII) =	31.2952
29.69643 sec	=	0.0145
	(VIII) =	31.3097

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 40°15'23''.54600$

TABULAR	(IX) =	42314.9542
29.69643 sec	=	5.1394
SECOND DIFF	=	-0.0011
	(IX) =	42320.0925
TABULAR	(X) =	421.4014
29.69643 sec	=	0.1954
	(X) =	421.5969
TABULAR	(XI) =	7.9350
29.69643 sec	=	0.0065
	(XI) =	7.9415

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 77°12'43''.75499$

TABULAR	(XIV) =	27340.7066
29.69643 sec	=	7.9710
SECOND DIFF	=	-0.001
	(XIV) =	27348.6766
TABULAR	(XV) =	382.6695
29.69643 sec	=	0.2050
	(XV) =	382.8745

$C = (XIV)q - (XV)q^3 = -1462''.90$

TABULAR	(XVI) =	0.012306

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99997271$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: NEW YORK WEST
ZONE CODE: 3103

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40° 0' (latitude of grid origin)
λ_b = 78°35' (longitude of origin and Central Meridian, CM)
E_0 = 350000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 40°00' to φ_{max} = 45°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 40°15'23".54600
LONGITUDE: 79°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.22637550
TABULAR (I) = 27757.5240
23.54600 sec = 726.2153
SECOND DIFF = -0.0006
(I) = 28483.7387
TABULAR (II) = 3701.4071
23.54600 sec = 0.1426
(II) = 3701.5498
TABULAR (III) = 1.8239
$N = (I) + (II)p^2 + (III)p^4$ = 28673.433 m

TABULAR (IV) = 236323.0727
23.54600 sec = -22.7526
SECOND DIFF = 0.0024
(IV) = 236300.3225
TABULAR (V) = 15.4914
23.54600 sec = -0.0224
(V) = 15.4690
TABULAR (VI) = -0.0277
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -53492.783 m
$E = E_0 + E'$ = 296507.217 m

TABULAR (XII) = 6461.2398
23.54600 sec = 0.8712
(XII) = 6462.1110
TABULAR (XIII) = 2.9837
$C = (XII)p + (XIII)p^3$ = -1462".90

$q = 10^{-6} E'$ = -0.05349278
TABULAR (XVI) = 0.012306
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99997271

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05349278$

$\varphi' = 40°15'29''.69643$

```
TABULAR  ( VII) =    2148.8544
   29.69643 sec =       0.6234
         ( VII) =    2149.4778
TABULAR  (VIII) =      31.2952
   29.69643 sec =       0.0145
         (VIII) =      31.3097
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 40°15'23''.54600$

```
TABULAR  (  IX) =   42314.9542
   29.69643 sec =       5.1394
   SECOND DIFF  =      -0.0011
         (  IX) =   42320.0925
TABULAR  (   X) =     421.4014
   29.69643 sec =       0.1954
         (   X) =     421.5969
TABULAR  (  XI) =       7.9350
   29.69643 sec =       0.0065
         (  XI) =       7.9415
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 79°12'43''.75499$

```
TABULAR  ( XIV) =   27340.7066
   29.69643 sec =       7.9710
   SECOND DIFF  =       -0.001
         ( XIV) =   27348.6766
TABULAR  (  XV) =     382.6695
   29.69643 sec =       0.2050
         (  XV) =     382.8745
```

$C = (XIV)q - (XV)q^3 = -1462''.90$

```
TABULAR  ( XVI) =     0.012306
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99997271$

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
38°50'	0.0000	30.833711	3665.8285	0.007820	1.912
	241168.2773	-0.937532	20.4143	-0.000978	-0.026
38°51'	1850.0227	30.833799	3666.2977	0.007799	1.911
	241112.0253	-0.937874	20.3556	-0.000978	-0.026
38°52'	3700.0506	30.833888	3666.7656	0.007778	1.910
	241055.7529	-0.938215	20.2970	-0.000977	-0.026
38°53'	5550.0839	30.833976	3667.2323	0.007758	1.909
	240999.4600	-0.938556	20.2383	-0.000977	-0.026
38°54'	7400.1225	30.834064	3667.6978	0.007737	1.908
	240943.1467	-0.938897	20.1797	-0.000977	-0.026
38°55'	9250.1663	30.834152	3668.1620	0.007716	1.907
	240886.8128	-0.939238	20.1211	-0.000976	-0.026
38°56'	11100.2155	30.834241	3668.6250	0.007696	1.906
	240830.4585	-0.939579	20.0625	-0.000976	-0.026
38°57'	12950.2699	30.834329	3669.0867	0.007675	1.905
	240774.0838	-0.939920	20.0040	-0.000976	-0.026
38°58'	14800.3297	30.834417	3669.5472	0.007654	1.904
	240717.6886	-0.940261	19.9454	-0.000976	-0.026
38°59'	16650.3947	30.834506	3670.0065	0.007634	1.903
	240661.2730	-0.940601	19.8869	-0.000975	-0.026
39° 0'	18500.4650	30.834594	3670.4645	0.007613	1.902
	240604.8369	-0.940942	19.8284	-0.000975	-0.026
39° 1'	20350.5407	30.834682	3670.9213	0.007592	1.901
	240548.3803	-0.941283	19.7699	-0.000975	-0.026
39° 2'	22200.6216	30.834771	3671.3768	0.007572	1.900
	240491.9034	-0.941623	19.7114	-0.000974	-0.026
39° 3'	24050.7079	30.834859	3671.8311	0.007551	1.899
	240435.4060	-0.941964	19.6529	-0.000974	-0.026
39° 4'	25900.7994	30.834947	3672.2842	0.007530	1.898
	240378.8882	-0.942304	19.5945	-0.000974	-0.026
39° 5'	27750.8963	30.835036	3672.7360	0.007509	1.897
	240322.3500	-0.942644	19.5360	-0.000974	-0.026
39° 6'	29600.9984	30.835124	3673.1865	0.007489	1.896
	240265.7913	-0.942984	19.4776	-0.000973	-0.026
39° 7'	31451.1059	30.835213	3673.6359	0.007468	1.895
	240209.2123	-0.943324	19.4192	-0.000973	-0.026
39° 8'	33301.2186	30.835301	3674.0839	0.007447	1.894
	240152.6128	-0.943664	19.3608	-0.000973	-0.026
39° 9'	35151.3367	30.835390	3674.5308	0.007427	1.893
	240095.9929	-0.944004	19.3025	-0.000972	-0.026

39°10'	37001.4601	30.835478	3674.9764	0.007406	1.892
	240039.3527	-0.944344	19.2441	-0.000972	-0.026
39°11'	38851.5888	30.835566	3675.4207	0.007385	1.891
	239982.6920	-0.944684	19.1858	-0.000972	-0.026

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IV)0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°12'	40701.7227	30.835655	3675.8639	0.007365	1.890
	239926.0110	-0.945024	19.1275	-0.000972	-0.026
39°13'	42551.8620	30.835743	3676.3057	0.007344	1.889
	239869.3096	-0.945363	19.0692	-0.000971	-0.026
39°14'	44402.0066	30.835832	3676.7464	0.007323	1.888
	239812.5878	-0.945703	19.0109	-0.000971	-0.026
39°15'	46252.1566	30.835920	3677.1857	0.007302	1.887
	239755.8456	-0.946042	18.9527	-0.000971	-0.026
39°16'	48102.3118	30.836009	3677.6239	0.007282	1.886
	239699.0830	-0.946382	18.8944	-0.000970	-0.026
39°17'	49952.4723	30.836097	3678.0608	0.007261	1.885
	239642.3001	-0.946721	18.8362	-0.000970	-0.027
39°18'	51802.6382	30.836186	3678.4964	0.007240	1.884
	239585.4969	-0.947060	18.7780	-0.000970	-0.027
39°19'	53652.8093	30.836274	3678.9309	0.007219	1.883
	239528.6733	-0.947399	18.7198	-0.000969	-0.027
39°20'	55502.9858	30.836363	3679.3640	0.007199	1.882
	239471.8293	-0.947739	18.6617	-0.000969	-0.027
39°21'	57353.1676	30.836452	3679.7959	0.007178	1.881
	239414.9650	-0.948078	18.6035	-0.000969	-0.027
39°22'	59203.3547	30.836540	3680.2266	0.007157	1.880
	239358.0803	-0.948416	18.5454	-0.000969	-0.027
39°23'	61053.5471	30.836629	3680.6561	0.007136	1.879
	239301.1753	-0.948755	18.4873	-0.000968	-0.027
39°24'	62903.7448	30.836717	3681.0842	0.007116	1.878
	239244.2500	-0.949094	18.4292	-0.000968	-0.027
39°25'	64753.9478	30.836806	3681.5112	0.007095	1.877
	239187.3044	-0.949433	18.3711	-0.000968	-0.027
39°26'	66604.1562	30.836895	3681.9369	0.007074	1.876
	239130.3384	-0.949771	18.3130	-0.000967	-0.027
39°27'	68454.3699	30.836983	3682.3613	0.007053	1.875
	239073.3521	-0.950110	18.2550	-0.000967	-0.027
39°28'	70304.5889	30.837072	3682.7846	0.007033	1.874
	239016.3455	-0.950448	18.1970	-0.000967	-0.027
39°29'	72154.8132	30.837161	3683.2065	0.007012	1.873
	238959.3186	-0.950787	18.1390	-0.000966	-0.027
39°30'	74005.0428	30.837249	3683.6272	0.006991	1.872
	238902.2714	-0.951125	18.0810	-0.000966	-0.027
39°31'	75855.2778	30.837338	3684.0467	0.006970	1.871
	238845.2039	-0.951463	18.0230	-0.000966	-0.027

39°32'	77705.5180	30.837427	3684.4649	0.006950	1.870
	238788.1161	-0.951801	17.9651	-0.000966	-0.027
39°33'	79555.7636	30.837515	3684.8819	0.006929	1.868
	238731.0080	-0.952140	17.9071	-0.000965	-0.027

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0023	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°34'	81406.0145	30.837604	3685.2977	0.006908	1.867
	238673.8797	-0.952478	17.8492	-0.000965	-0.027
39°35'	83256.2708	30.837693	3685.7121	0.006887	1.866
	238616.7310	-0.952815	17.7913	-0.000965	-0.027
39°36'	85106.5323	30.837781	3686.1254	0.006867	1.865
	238559.5621	-0.953153	17.7334	-0.000964	-0.027
39°37'	86956.7992	30.837870	3686.5374	0.006846	1.864
	238502.3729	-0.953491	17.6756	-0.000964	-0.027
39°38'	88807.0714	30.837959	3686.9481	0.006825	1.863
	238445.1634	-0.953829	17.6177	-0.000964	-0.027
39°39'	90657.3489	30.838048	3687.3576	0.006804	1.862
	238387.9337	-0.954166	17.5599	-0.000963	-0.027
39°40'	92507.6318	30.838136	3687.7659	0.006784	1.861
	238330.6837	-0.954504	17.5021	-0.000963	-0.027
39°41'	94357.9200	30.838225	3688.1729	0.006763	1.860
	238273.4135	-0.954841	17.4443	-0.000963	-0.027
39°42'	96208.2135	30.838314	3688.5787	0.006742	1.859
	238216.1230	-0.955179	17.3865	-0.000963	-0.027
39°43'	98058.5123	30.838403	3688.9832	0.006721	1.858
	238158.8123	-0.955516	17.3288	-0.000962	-0.027
39°44'	99908.8165	30.838491	3689.3865	0.006700	1.857
	238101.4813	-0.955853	17.2711	-0.000962	-0.027
39°45'	101759.1260	30.838580	3689.7885	0.006680	1.856
	238044.1302	-0.956190	17.2133	-0.000962	-0.027
39°46'	103609.4408	30.838669	3690.1892	0.006659	1.855
	237986.7587	-0.956527	17.1556	-0.000961	-0.027
39°47'	105459.7609	30.838758	3690.5888	0.006638	1.854
	237929.3671	-0.956864	17.0980	-0.000961	-0.027
39°48'	107310.0864	30.838847	3690.9871	0.006617	1.853
	237871.9553	-0.957201	17.0403	-0.000961	-0.027
39°49'	109160.4172	30.838936	3691.3841	0.006596	1.852
	237814.5232	-0.957538	16.9827	-0.000960	-0.027
39°50'	111010.7533	30.839025	3691.7799	0.006576	1.851
	237757.0709	-0.957875	16.9251	-0.000960	-0.027
39°51'	112861.0948	30.839113	3692.1744	0.006555	1.850
	237699.5984	-0.958211	16.8675	-0.000960	-0.027
39°52'	114711.4416	30.839202	3692.5677	0.006534	1.849
	237642.1057	-0.958548	16.8099	-0.000959	-0.027
39°53'	116561.7938	30.839291	3692.9597	0.006513	1.847
	237584.5929	-0.958884	16.7523	-0.000959	-0.027

39°54'	118412.1512	30.839380	3693.3505	0.006492	1.846
	237527.0598	-0.959221	16.6948	-0.000959	-0.027
39°55'	120262.5140	30.839469	3693.7400	0.006471	1.845
	237469.5066	-0.959557	16.6372	-0.000958	-0.027

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
39°56'	122112.8822	30.839558	3694.1283	0.006451	1.844
	237411.9331	-0.959893	16.5797	-0.000958	-0.027
39°57'	123963.2556	30.839647	3694.5154	0.006430	1.843
	237354.3395	-0.960230	16.5223	-0.000958	-0.027
39°58'	125813.6345	30.839736	3694.9012	0.006409	1.842
	237296.7258	-0.960566	16.4648	-0.000957	-0.027
39°59'	127664.0186	30.839825	3695.2857	0.006388	1.841
	237239.0918	-0.960902	16.4073	-0.000957	-0.027
40° 0'	129514.4081	30.839914	3695.6690	0.006367	1.840
	237181.4377	-0.961238	16.3499	-0.000957	-0.027
40° 1'	131364.8029	30.840003	3696.0510	0.006347	1.839
	237123.7634	-0.961574	16.2925	-0.000957	-0.027
40° 2'	133215.2031	30.840092	3696.4318	0.006326	1.838
	237066.0690	-0.961909	16.2351	-0.000956	-0.027
40° 3'	135065.6086	30.840181	3696.8114	0.006305	1.837
	237008.3545	-0.962245	16.1777	-0.000956	-0.027
40° 4'	136916.0194	30.840270	3697.1896	0.006284	1.836
	236950.6198	-0.962581	16.1204	-0.000956	-0.027
40° 5'	138766.4356	30.840359	3697.5667	0.006263	1.835
	236892.8649	-0.962916	16.0631	-0.000955	-0.027
40° 6'	140616.8571	30.840448	3697.9425	0.006242	1.834
	236835.0900	-0.963252	16.0057	-0.000955	-0.028
40° 7'	142467.2839	30.840537	3698.3170	0.006221	1.832
	236777.2949	-0.963587	15.9484	-0.000955	-0.028
40° 8'	144317.7161	30.840626	3698.6903	0.006201	1.831
	236719.4796	-0.963922	15.8912	-0.000954	-0.028
40° 9'	146168.1537	30.840715	3699.0623	0.006180	1.830
	236661.6443	-0.964258	15.8339	-0.000954	-0.028
40°10'	148018.5966	30.840804	3699.4331	0.006159	1.829
	236603.7888	-0.964593	15.7767	-0.000954	-0.028
40°11'	149869.0448	30.840893	3699.8027	0.006138	1.828
	236545.9133	-0.964928	15.7195	-0.000953	-0.028
40°12'	151719.4984	30.840982	3700.1710	0.006117	1.827
	236488.0176	-0.965263	15.6623	-0.000953	-0.028
40°13'	153569.9573	30.841071	3700.5380	0.006096	1.826
	236430.1018	-0.965598	15.6051	-0.000953	-0.028
40°14'	155420.4215	30.841160	3700.9038	0.006076	1.825
	236372.1660	-0.965933	15.5479	-0.000952	-0.028
40°15'	157270.8912	30.841249	3701.2683	0.006055	1.824
	236314.2100	-0.966267	15.4908	-0.000952	-0.028

40°16'	159121.3661	30.841338	3701.6316	0.006034	1.823
	236256.2340	-0.966602	15.4337	-0.000952	-0.028
40°17'	160971.8464	30.841427	3701.9936	0.006013	1.822
	236198.2379	-0.966937	15.3766	-0.000951	-0.028

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°18'	162822.3321	30.841517	3702.3544	0.005992	1.821
	236140.2217	-0.967271	15.3195	-0.000951	-0.028
40°19'	164672.8230	30.841606	3702.7139	0.005971	1.820
	236082.1854	-0.967606	15.2625	-0.000951	-0.028
40°20'	166523.3194	30.841695	3703.0722	0.005950	1.818
	236024.1291	-0.967940	15.2054	-0.000950	-0.028
40°21'	168373.8211	30.841784	3703.4292	0.005929	1.817
	235966.0527	-0.968274	15.1484	-0.000950	-0.028
40°22'	170224.3281	30.841873	3703.7850	0.005909	1.816
	235907.9562	-0.968608	15.0914	-0.000950	-0.028
40°23'	172074.8405	30.841962	3704.1395	0.005888	1.815
	235849.8397	-0.968942	15.0344	-0.000949	-0.028
40°24'	173925.3582	30.842052	3704.4927	0.005867	1.814
	235791.7032	-0.969277	14.9775	-0.000949	-0.028
40°25'	175775.8813	30.842141	3704.8447	0.005846	1.813
	235733.5466	-0.969610	14.9205	-0.000949	-0.028
40°26'	177626.4098	30.842230	3705.1955	0.005825	1.812
	235675.3700	-0.969944	14.8636	-0.000948	-0.028
40°27'	179476.9436	30.842319	3705.5450	0.005804	1.811
	235617.1733	-0.970278	14.8067	-0.000948	-0.028
40°28'	181327.4827	30.842408	3705.8933	0.005783	1.810
	235558.9566	-0.970612	14.7498	-0.000948	-0.028
40°29'	183178.0272	30.842498	3706.2402	0.005762	1.809
	235500.7199	-0.970945	14.6930	-0.000947	-0.028
40°30'	185028.5771	30.842587	3706.5860	0.005741	1.807
	235442.4632	-0.971279	14.6361	-0.000947	-0.028
40°31'	186879.1323	30.842676	3706.9305	0.005721	1.806
	235384.1864	-0.971613	14.5793	-0.000947	-0.028
40°32'	188729.6928	30.842765	3707.2737	0.005700	1.805
	235325.8897	-0.971946	14.5225	-0.000946	-0.028
40°33'	190580.2588	30.842855	3707.6157	0.005679	1.804
	235267.5729	-0.972279	14.4658	-0.000946	-0.028
40°34'	192430.8300	30.842944	3707.9564	0.005658	1.803
	235209.2362	-0.972612	14.4090	-0.000946	-0.028
40°35'	194281.4067	30.843033	3708.2959	0.005637	1.802
	235150.8794	-0.972946	14.3523	-0.000945	-0.028
40°36'	196131.9886	30.843122	3708.6341	0.005616	1.801
	235092.5027	-0.973279	14.2955	-0.000945	-0.028
40°37'	197982.5760	30.843212	3708.9711	0.005595	1.800
	235034.1059	-0.973612	14.2389	-0.000945	-0.028

40°38'	199833.1687	30.843301	3709.3068	0.005574	1.799
	234975.6892	-0.973945	14.1822	-0.000944	-0.028
40°39'	201683.7667	30.843390	3709.6412	0.005553	1.798
	234917.2526	-0.974277	14.1255	-0.000944	-0.028

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
40°40'	203534.3702	30.843480	3709.9744	0.005532	1.796
	234858.7959	-0.974610	14.0689	-0.000944	-0.028
40°41'	205384.9789	30.843569	3710.3064	0.005512	1.795
	234800.3193	-0.974943	14.0123	-0.000943	-0.028
40°42'	207235.5931	30.843658	3710.6371	0.005491	1.794
	234741.8227	-0.975275	13.9557	-0.000943	-0.028
40°43'	209086.2126	30.843748	3710.9665	0.005470	1.793
	234683.3062	-0.975608	13.8991	-0.000942	-0.028
40°44'	210936.8374	30.843837	3711.2947	0.005449	1.792
	234624.7697	-0.975940	13.8426	-0.000942	-0.028
40°45'	212787.4676	30.843926	3711.6216	0.005428	1.791
	234566.2133	-0.976273	13.7860	-0.000942	-0.028
40°46'	214638.1032	30.844016	3711.9473	0.005407	1.790
	234507.6369	-0.976605	13.7295	-0.000941	-0.028
40°47'	216488.7441	30.844105	3712.2717	0.005386	1.789
	234449.0406	-0.976937	13.6730	-0.000941	-0.028
40°48'	218339.3904	30.844194	3712.5949	0.005365	1.788
	234390.4244	-0.977269	13.6166	-0.000941	-0.028
40°49'	220190.0421	30.844284	3712.9168	0.005344	1.786
	234331.7882	-0.977601	13.5601	-0.000940	-0.028
40°50'	222040.6991	30.844373	3713.2374	0.005323	1.785
	234273.1321	-0.977933	13.5037	-0.000940	-0.028
40°51'	223891.3615	30.844463	3713.5568	0.005302	1.784
	234214.4561	-0.978265	13.4473	-0.000940	-0.028
40°52'	225742.0293	30.844552	3713.8750	0.005281	1.783
	234155.7602	-0.978597	13.3909	-0.000939	-0.028
40°53'	227592.7024	30.844641	3714.1918	0.005260	1.782
	234097.0444	-0.978929	13.3346	-0.000939	-0.028
40°54'	229443.3809	30.844731	3714.5075	0.005239	1.781
	234038.3087	-0.979260	13.2782	-0.000939	-0.028
40°55'	231294.0648	30.844820	3714.8218	0.005219	1.780
	233979.5531	-0.979592	13.2219	-0.000938	-0.028
40°56'	233144.7540	30.844910	3715.1349	0.005198	1.779
	233920.7775	-0.979923	13.1656	-0.000938	-0.028
40°57'	234995.4486	30.844999	3715.4468	0.005177	1.778
	233861.9821	-0.980255	13.1093	-0.000938	-0.028
40°58'	236846.1485	30.845089	3715.7574	0.005156	1.776
	233803.1669	-0.980586	13.0531	-0.000937	-0.028
40°59'	238696.8538	30.845178	3716.0667	0.005135	1.775
	233744.3317	-0.980917	12.9968	-0.000937	-0.028

41° 0'	240547.5645	30.845268	3716.3748	0.005114	1.774
	233685.4767	-0.981248	12.9406	-0.000937	-0.028
41° 1'	242398.2806	30.845357	3716.6817	0.005093	1.773
	233626.6017	-0.981580	12.8844	-0.000936	-0.028

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IV)0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41° 2'	244249.0020	30.845447	3716.9872	0.005072	1.772
	233567.7070	-0.981910	12.8283	-0.000936	-0.028
41° 3'	246099.7288	30.845536	3717.2915	0.005051	1.771
	233508.7924	-0.982241	12.7721	-0.000935	-0.028
41° 4'	247950.4610	30.845626	3717.5946	0.005030	1.770
	233449.8579	-0.982572	12.7160	-0.000935	-0.028
41° 5'	249801.1985	30.845715	3717.8964	0.005009	1.768
	233390.9035	-0.982903	12.6599	-0.000935	-0.029
41° 6'	251651.9414	30.845805	3718.1969	0.004988	1.767
	233331.9294	-0.983234	12.6038	-0.000934	-0.029
41° 7'	253502.6897	30.845894	3718.4962	0.004967	1.766
	233272.9353	-0.983564	12.5477	-0.000934	-0.029
41° 8'	255353.4434	30.845984	3718.7943	0.004946	1.765
	233213.9215	-0.983895	12.4917	-0.000934	-0.029
41° 9'	257204.2024	30.846073	3719.0910	0.004925	1.764
	233154.8878	-0.984225	12.4357	-0.000933	-0.029
41°10'	259054.9668	30.846163	3719.3865	0.004904	1.763
	233095.8343	-0.984555	12.3797	-0.000933	-0.029
41°11'	260905.7366	30.846252	3719.6808	0.004883	1.762
	233036.7610	-0.984886	12.3237	-0.000933	-0.029
41°12'	262756.5117	30.846342	3719.9738	0.004862	1.761
	232977.6678	-0.985216	12.2678	-0.000932	-0.029
41°13'	264607.2922	30.846432	3720.2655	0.004841	1.759
	232918.5549	-0.985546	12.2118	-0.000932	-0.029
41°14'	266458.0781	30.846521	3720.5560	0.004820	1.758
	232859.4221	-0.985876	12.1559	-0.000931	-0.029
41°15'	268308.8694	30.846611	3720.8452	0.004799	1.757
	232800.2696	-0.986206	12.1000	-0.000931	-0.029
41°16'	270159.6660	30.846700	3721.1332	0.004778	1.756
	232741.0972	-0.986536	12.0442	-0.000931	-0.029
41°17'	272010.4681	30.846790	3721.4199	0.004757	1.755
	232681.9051	-0.986865	11.9883	-0.000930	-0.029
41°18'	273861.2755	30.846880	3721.7053	0.004736	1.754
	232622.6931	-0.987195	11.9325	-0.000930	-0.029
41°19'	275712.0882	30.846969	3721.9895	0.004715	1.753
	232563.4614	-0.987525	11.8767	-0.000930	-0.029
41°20'	277562.9064	30.847059	3722.2724	0.004694	1.751
	232504.2099	-0.987854	11.8209	-0.000929	-0.029
41°21'	279413.7299	30.847148	3722.5541	0.004673	1.750
	232444.9387	-0.988184	11.7651	-0.000929	-0.029

41°22'	281264.5588	30.847238	3722.8345	0.004652	1.749
	232385.6477	-0.988513	11.7094	-0.000929	-0.029
41°23'	283115.3931	30.847328	3723.1137	0.004631	1.748
	232326.3369	-0.988842	11.6537	-0.000928	-0.029

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°24'	284966.2328	30.847417	3723.3915	0.004610	1.747
	232267.0063	-0.989172	11.5980	-0.000928	-0.029
41°25'	286817.0778	30.847507	3723.6682	0.004590	1.746
	232207.6560	-0.989501	11.5423	-0.000927	-0.029
41°26'	288667.9282	30.847597	3723.9435	0.004569	1.745
	232148.2860	-0.989830	11.4867	-0.000927	-0.029
41°27'	290518.7840	30.847686	3724.2177	0.004548	1.743
	232088.8962	-0.990159	11.4311	-0.000927	-0.029
41°28'	292369.6452	30.847776	3724.4905	0.004527	1.742
	232029.4867	-0.990488	11.3755	-0.000926	-0.029
41°29'	294220.5118	30.847866	3724.7621	0.004506	1.741
	231970.0574	-0.990816	11.3199	-0.000926	-0.029
41°30'	296071.3837	30.847955	3725.0324	0.004485	1.740
	231910.6085	-0.991145	11.2643	-0.000926	-0.029
41°31'	297922.2611	30.848045	3725.3015	0.004464	1.739
	231851.1398	-0.991474	11.2088	-0.000925	-0.029
41°32'	299773.1438	30.848135	3725.5693	0.004443	1.738
	231791.6513	-0.991802	11.1533	-0.000925	-0.029
41°33'	301624.0319	30.848225	3725.8359	0.004422	1.736
	231732.1432	-0.992131	11.0978	-0.000924	-0.029
41°34'	303474.9254	30.848314	3726.1012	0.004401	1.735
	231672.6154	-0.992459	11.0423	-0.000924	-0.029
41°35'	305325.8242	30.848404	3726.3652	0.004379	1.734
	231613.0678	-0.992787	10.9869	-0.000924	-0.029
41°36'	307176.7285	30.848494	3726.6280	0.004358	1.733
	231553.5006	-0.993116	10.9315	-0.000923	-0.029
41°37'	309027.6381	30.848584	3726.8895	0.004337	1.732
	231493.9137	-0.993444	10.8761	-0.000923	-0.029
41°38'	310878.5531	30.848673	3727.1497	0.004316	1.731
	231434.3070	-0.993772	10.8207	-0.000923	-0.029
41°39'	312729.4735	30.848763	3727.4087	0.004295	1.730
	231374.6807	-0.994100	10.7653	-0.000922	-0.029
41°40'	314580.3993	30.848853	3727.6664	0.004274	1.728
	231315.0348	-0.994428	10.7100	-0.000922	-0.029
41°41'	316431.3305	30.848943	3727.9229	0.004253	1.727
	231255.3691	-0.994755	10.6547	-0.000921	-0.029
41°42'	318282.2670	30.849032	3728.1781	0.004232	1.726
	231195.6838	-0.995083	10.5994	-0.000921	-0.029
41°43'	320133.2090	30.849122	3728.4320	0.004211	1.725
	231135.9788	-0.995411	10.5441	-0.000921	-0.029

41°44'	321984.1563	30.849212	3728.6847	0.004190	1.724
	231076.2541	-0.995738	10.4889	-0.000920	-0.029
41°45'	323835.1090	30.849302	3728.9361	0.004169	1.723
	231016.5098	-0.996066	10.4337	-0.000920	-0.029

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°46'	325686.0671	30.849392	3729.1863	0.004148	1.721
	230956.7459	-0.996393	10.3785	-0.000920	-0.029
41°47'	327537.0306	30.849481	3729.4352	0.004127	1.720
	230896.9623	-0.996720	10.3233	-0.000919	-0.029
41°48'	329387.9995	30.849571	3729.6828	0.004106	1.719
	230837.1591	-0.997048	10.2682	-0.000919	-0.029
41°49'	331238.9738	30.849661	3729.9292	0.004085	1.718
	230777.3362	-0.997375	10.2130	-0.000918	-0.029
41°50'	333089.9534	30.849751	3730.1743	0.004064	1.717
	230717.4937	-0.997702	10.1579	-0.000918	-0.029
41°51'	334940.9385	30.849841	3730.4182	0.004043	1.716
	230657.6316	-0.998029	10.1029	-0.000918	-0.029
41°52'	336791.9289	30.849931	3730.6608	0.004022	1.714
	230597.7499	-0.998356	10.0478	-0.000917	-0.029
41°53'	338642.9247	30.850020	3730.9021	0.004001	1.713
	230537.8485	-0.998683	9.9928	-0.000917	-0.029
41°54'	340493.9260	30.850110	3731.1422	0.003980	1.712
	230477.9276	-0.999009	9.9378	-0.000916	-0.029
41°55'	342344.9326	30.850200	3731.3810	0.003959	1.711
	230417.9870	-0.999336	9.8828	-0.000916	-0.029
41°56'	344195.9446	30.850290	3731.6185	0.003938	1.710
	230358.0268	-0.999663	9.8278	-0.000916	-0.029
41°57'	346046.9620	30.850380	3731.8548	0.003917	1.709
	230298.0471	-0.999989	9.7729	-0.000915	-0.029
41°58'	347897.9848	30.850470	3732.0898	0.003896	1.707
	230238.0477	-1.000315	9.7179	-0.000915	-0.029
41°59'	349749.0129	30.850560	3732.3236	0.003875	1.706
	230178.0288	-1.000642	9.6630	-0.000915	-0.029
42° 0'	351600.0465	30.850649	3732.5561	0.003854	1.705
	230117.9903	-1.000968	9.6082	-0.000914	-0.029
42° 1'	353451.0855	30.850739	3732.7873	0.003833	1.704
	230057.9322	-1.001294	9.5533	-0.000914	-0.029
42° 2'	355302.1298	30.850829	3733.0173	0.003812	1.703
	229997.8546	-1.001620	9.4985	-0.000913	-0.029
42° 3'	357153.1796	30.850919	3733.2460	0.003791	1.701
	229937.7574	-1.001946	9.4437	-0.000913	-0.029
42° 4'	359004.2347	30.851009	3733.4734	0.003770	1.700
	229877.6406	-1.002272	9.3889	-0.000913	-0.029
42° 5'	360855.2953	30.851099	3733.6996	0.003749	1.699
	229817.5042	-1.002598	9.3342	-0.000912	-0.029

42° 6'	362706.3612	30.851189	3733.9245	0.003728	1.698
	229757.3484	-1.002924	9.2794	-0.000912	-0.029
42° 7'	364557.4326	30.851279	3734.1481	0.003706	1.697
	229697.1729	-1.003249	9.2247	-0.000911	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42° 8'	366408.5093	30.851369	3734.3705	0.003685	1.696
	229636.9780	-1.003575	9.1701	-0.000911	-0.029
42° 9'	368259.5914	30.851459	3734.5917	0.003664	1.694
	229576.7635	-1.003900	9.1154	-0.000911	-0.029
42°10'	370110.6790	30.851549	3734.8115	0.003643	1.693
	229516.5294	-1.004226	9.0608	-0.000910	-0.029
42°11'	371961.7719	30.851639	3735.0301	0.003622	1.692
	229456.2759	-1.004551	9.0061	-0.000910	-0.029
42°12'	373812.8702	30.851729	3735.2474	0.003601	1.691
	229396.0028	-1.004876	8.9516	-0.000909	-0.029
42°13'	375663.9739	30.851819	3735.4635	0.003580	1.690
	229335.7102	-1.005202	8.8970	-0.000909	-0.029
42°14'	377515.0830	30.851909	3735.6783	0.003559	1.688
	229275.3981	-1.005527	8.8425	-0.000909	-0.029
42°15'	379366.1975	30.851998	3735.8919	0.003538	1.687
	229215.0665	-1.005852	8.7879	-0.000908	-0.029
42°16'	381217.3174	30.852088	3736.1041	0.003517	1.686
	229154.7154	-1.006177	8.7334	-0.000908	-0.029
42°17'	383068.4427	30.852178	3736.3152	0.003496	1.685
	229094.3448	-1.006501	8.6790	-0.000907	-0.029
42°18'	384919.5735	30.852268	3736.5249	0.003475	1.684
	229033.9547	-1.006826	8.6245	-0.000907	-0.029
42°19'	386770.7096	30.852358	3736.7334	0.003454	1.682
	228973.5452	-1.007151	8.5701	-0.000907	-0.029
42°20'	388621.8511	30.852448	3736.9406	0.003433	1.681
	228913.1161	-1.007475	8.5157	-0.000906	-0.030
42°21'	390472.9980	30.852538	3737.1466	0.003412	1.680
	228852.6676	-1.007800	8.4613	-0.000906	-0.030
42°22'	392324.1503	30.852628	3737.3513	0.003391	1.679
	228792.1996	-1.008124	8.4070	-0.000905	-0.030
42°23'	394175.3080	30.852718	3737.5547	0.003369	1.678
	228731.7121	-1.008449	8.3527	-0.000905	-0.030
42°24'	396026.4711	30.852809	3737.7569	0.003348	1.677
	228671.2052	-1.008773	8.2984	-0.000905	-0.030
42°25'	397877.6396	30.852899	3737.9578	0.003327	1.675
	228610.6788	-1.009097	8.2441	-0.000904	-0.030
42°26'	399728.8135	30.852989	3738.1574	0.003306	1.674
	228550.1330	-1.009421	8.1898	-0.000904	-0.030
42°27'	401579.9928	30.853079	3738.3558	0.003285	1.673
	228489.5677	-1.009745	8.1356	-0.000903	-0.030

42°28'	403431.1776	30.853169	3738.5529	0.003264	1.672
	228428.9830	-1.010069	8.0814	-0.000903	-0.030
42°29'	405282.3677	30.853259	3738.7487	0.003243	1.671
	228368.3789	-1.010393	8.0272	-0.000903	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0022	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°30'	407133.5632	30.853349	3738.9433	0.003222	1.669
	228307.7553	-1.010717	7.9731	-0.000902	-0.030
42°31'	408984.7641	30.853439	3739.1366	0.003201	1.668
	228247.1123	-1.011040	7.9190	-0.000902	-0.030
42°32'	410835.9705	30.853529	3739.3287	0.003180	1.667
	228186.4499	-1.011364	7.8649	-0.000901	-0.030
42°33'	412687.1822	30.853619	3739.5195	0.003159	1.666
	228125.7680	-1.011687	7.8108	-0.000901	-0.030
42°34'	414538.3993	30.853709	3739.7090	0.003138	1.665
	228065.0668	-1.012011	7.7567	-0.000901	-0.030
42°35'	416389.6219	30.853799	3739.8972	0.003116	1.663
	228004.3461	-1.012334	7.7027	-0.000900	-0.030
42°36'	418240.8498	30.853889	3740.0842	0.003095	1.662
	227943.6061	-1.012657	7.6487	-0.000900	-0.030
42°37'	420092.0832	30.853979	3740.2699	0.003074	1.661
	227882.8466	-1.012981	7.5947	-0.000899	-0.030
42°38'	421943.3219	30.854069	3740.4544	0.003053	1.660
	227822.0678	-1.013304	7.5407	-0.000899	-0.030
42°39'	423794.5661	30.854159	3740.6376	0.003032	1.658
	227761.2696	-1.013627	7.4868	-0.000898	-0.030
42°40'	425645.8157	30.854250	3740.8195	0.003011	1.657
	227700.4520	-1.013950	7.4329	-0.000898	-0.030
42°41'	427497.0706	30.854340	3741.0002	0.002990	1.656
	227639.6150	-1.014272	7.3790	-0.000898	-0.030
42°42'	429348.3310	30.854430	3741.1796	0.002969	1.655
	227578.7587	-1.014595	7.3251	-0.000897	-0.030
42°43'	431199.5968	30.854520	3741.3577	0.002948	1.654
	227517.8829	-1.014918	7.2713	-0.000897	-0.030
42°44'	433050.8680	30.854610	3741.5346	0.002927	1.652
	227456.9879	-1.015240	7.2175	-0.000896	-0.030
42°45'	434902.1446	30.854700	3741.7102	0.002906	1.651
	227396.0734	-1.015563	7.1637	-0.000896	-0.030
42°46'	436753.4266	30.854790	3741.8845	0.002884	1.650
	227335.1397	-1.015885	7.1100	-0.000896	-0.030
42°47'	438604.7140	30.854880	3742.0576	0.002863	1.649
	227274.1866	-1.016208	7.0562	-0.000895	-0.030
42°48'	440456.0068	30.854971	3742.2294	0.002842	1.648
	227213.2141	-1.016530	7.0025	-0.000895	-0.030
42°49'	442307.3051	30.855061	3742.3999	0.002821	1.646
	227152.2223	-1.016852	6.9488	-0.000894	-0.030

42°50'	444158.6087	30.855151	3742.5692	0.002800	1.645
	227091.2112	-1.017174	6.8952	-0.000894	-0.030
42°51'	446009.9178	30.855241	3742.7372	0.002779	1.644
	227030.1807	-1.017496	6.8415	-0.000893	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°52'	447861.2322	30.855331	3742.9039	0.002758	1.643
	226969.1310	-1.017818	6.7879	-0.000893	-0.030
42°53'	449712.5521	30.855421	3743.0694	0.002737	1.642
	226908.0619	-1.018140	6.7343	-0.000893	-0.030
42°54'	451563.8774	30.855511	3743.2336	0.002716	1.640
	226846.9735	-1.018462	6.6808	-0.000892	-0.030
42°55'	453415.2081	30.855602	3743.3965	0.002694	1.639
	226785.8658	-1.018783	6.6273	-0.000892	-0.030
42°56'	455266.5442	30.855692	3743.5582	0.002673	1.638
	226724.7388	-1.019105	6.5737	-0.000891	-0.030
42°57'	457117.8857	30.855782	3743.7186	0.002652	1.637
	226663.5925	-1.019426	6.5203	-0.000891	-0.030
42°58'	458969.2326	30.855872	3743.8777	0.002631	1.635
	226602.4269	-1.019748	6.4668	-0.000891	-0.030
42°59'	460820.5849	30.855962	3744.0356	0.002610	1.634
	226541.2421	-1.020069	6.4134	-0.000890	-0.030
43° 0'	462671.9427	30.856053	3744.1922	0.002589	1.633
	226480.0379	-1.020390	6.3600	-0.000890	-0.030
43° 1'	464523.3058	30.856143	3744.3475	0.002568	1.632
	226418.8145	-1.020711	6.3066	-0.000889	-0.030
43° 2'	466374.6744	30.856233	3744.5016	0.002547	1.631
	226357.5719	-1.021032	6.2532	-0.000889	-0.030
43° 3'	468226.0484	30.856323	3744.6544	0.002526	1.629
	226296.3099	-1.021353	6.1999	-0.000888	-0.030
43° 4'	470077.4278	30.856413	3744.8059	0.002504	1.628
	226235.0287	-1.021674	6.1466	-0.000888	-0.030
43° 5'	471928.8126	30.856504	3744.9562	0.002483	1.627
	226173.7282	-1.021995	6.0933	-0.000888	-0.030
43° 6'	473780.2028	30.856594	3745.1052	0.002462	1.626
	226112.4085	-1.022316	6.0400	-0.000887	-0.030
43° 7'	475631.5984	30.856684	3745.2529	0.002441	1.624
	226051.0696	-1.022636	5.9868	-0.000887	-0.030
43° 8'	477482.9995	30.856774	3745.3994	0.002420	1.623
	225989.7114	-1.022957	5.9336	-0.000886	-0.030
43° 9'	479334.4059	30.856864	3745.5446	0.002399	1.622
	225928.3340	-1.023278	5.8804	-0.000886	-0.030
43°10'	481185.8178	30.856955	3745.6885	0.002378	1.621
	225866.9373	-1.023598	5.8273	-0.000885	-0.030
43°11'	483037.2351	30.857045	3745.8312	0.002357	1.619
	225805.5214	-1.023918	5.7742	-0.000885	-0.030

43°12'	484888.6578	30.857135	3745.9726	0.002335	1.618
	225744.0864	-1.024238	5.7211	-0.000885	-0.030
43°13'	486740.0859	30.857225	3746.1127	0.002314	1.617
	225682.6321	-1.024559	5.6680	-0.000884	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°14'	488591.5194	30.857316	3746.2516	0.002293	1.616
	225621.1585	-1.024879	5.6149	-0.000884	-0.030
43°15'	490442.9583	30.857406	3746.3891	0.002272	1.615
	225559.6658	-1.025199	5.5619	-0.000883	-0.030
43°16'	492294.4027	30.857496	3746.5255	0.002251	1.613
	225498.1539	-1.025518	5.5089	-0.000883	-0.030
43°17'	494145.8525	30.857586	3746.6605	0.002230	1.612
	225436.6228	-1.025838	5.4559	-0.000882	-0.030
43°18'	495997.3076	30.857677	3746.7943	0.002209	1.611
	225375.0725	-1.026158	5.4030	-0.000882	-0.030
43°19'	497848.7682	30.857767	3746.9268	0.002188	1.610
	225313.5030	-1.026478	5.3501	-0.000882	-0.030
43°20'	499700.2343	30.857857	3747.0581	0.002166	1.608
	225251.9144	-1.026797	5.2972	-0.000881	-0.030
43°21'	501551.7057	30.857947	3747.1881	0.002145	1.607
	225190.3066	-1.027117	5.2443	-0.000881	-0.030
43°22'	503403.1825	30.858038	3747.3168	0.002124	1.606
	225128.6796	-1.027436	5.1915	-0.000880	-0.030
43°23'	505254.6648	30.858128	3747.4443	0.002103	1.605
	225067.0334	-1.027755	5.1387	-0.000880	-0.030
43°24'	507106.1525	30.858218	3747.5704	0.002082	1.603
	225005.3681	-1.028074	5.0859	-0.000879	-0.030
43°25'	508957.6456	30.858309	3747.6954	0.002061	1.602
	224943.6836	-1.028394	5.0331	-0.000879	-0.030
43°26'	510809.1441	30.858399	3747.8190	0.002040	1.601
	224881.9800	-1.028713	4.9804	-0.000879	-0.030
43°27'	512660.6480	30.858489	3747.9414	0.002019	1.600
	224820.2573	-1.029032	4.9277	-0.000878	-0.030
43°28'	514512.1574	30.858579	3748.0625	0.001997	1.598
	224758.5154	-1.029350	4.8750	-0.000878	-0.030
43°29'	516363.6722	30.858670	3748.1823	0.001976	1.597
	224696.7543	-1.029669	4.8223	-0.000877	-0.030
43°30'	518215.1923	30.858760	3748.3009	0.001955	1.596
	224634.9742	-1.029988	4.7697	-0.000877	-0.030
43°31'	520066.7179	30.858850	3748.4182	0.001934	1.595
	224573.1749	-1.030306	4.7171	-0.000876	-0.030
43°32'	521918.2490	30.858941	3748.5343	0.001913	1.593
	224511.3565	-1.030625	4.6645	-0.000876	-0.030
43°33'	523769.7854	30.859031	3748.6490	0.001892	1.592
	224449.5190	-1.030943	4.6119	-0.000875	-0.030

43°34'	525621.3273	30.859121	3748.7625	0.001871	1.591
	224387.6624	-1.031262	4.5594	-0.000875	-0.030
43°35'	527472.8745	30.859212	3748.8748	0.001849	1.590
	224325.7867	-1.031580	4.5069	-0.000875	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°36'	529324.4272	30.859302	3748.9857	0.001828	1.589
	224263.8919	-1.031898	4.4544	-0.000874	-0.030
43°37'	531175.9854	30.859392	3749.0954	0.001807	1.587
	224201.9780	-1.032216	4.4020	-0.000874	-0.030
43°38'	533027.5489	30.859483	3749.2038	0.001786	1.586
	224140.0451	-1.032534	4.3496	-0.000873	-0.030
43°39'	534879.1179	30.859573	3749.3110	0.001765	1.585
	224078.0930	-1.032852	4.2972	-0.000873	-0.030
43°40'	536730.6922	30.859663	3749.4169	0.001744	1.584
	224016.1219	-1.033170	4.2448	-0.000872	-0.030
43°41'	538582.2720	30.859754	3749.5215	0.001723	1.582
	223954.1317	-1.033488	4.1925	-0.000872	-0.030
43°42'	540433.8572	30.859844	3749.6249	0.001701	1.581
	223892.1224	-1.033805	4.1402	-0.000871	-0.030
43°43'	542285.4479	30.859934	3749.7270	0.001680	1.580
	223830.0941	-1.034123	4.0879	-0.000871	-0.030
43°44'	544137.0439	30.860025	3749.8278	0.001659	1.579
	223768.0467	-1.034441	4.0356	-0.000871	-0.030
43°45'	545988.6454	30.860115	3749.9273	0.001638	1.577
	223705.9803	-1.034758	3.9834	-0.000870	-0.030
43°46'	547840.2523	30.860205	3750.0256	0.001617	1.576
	223643.8948	-1.035075	3.9312	-0.000870	-0.030
43°47'	549691.8646	30.860296	3750.1226	0.001596	1.575
	223581.7903	-1.035392	3.8790	-0.000869	-0.030
43°48'	551543.4824	30.860386	3750.2183	0.001574	1.574
	223519.6667	-1.035710	3.8268	-0.000869	-0.030
43°49'	553395.1055	30.860476	3750.3128	0.001553	1.572
	223457.5242	-1.036027	3.7747	-0.000868	-0.030
43°50'	555246.7341	30.860567	3750.4060	0.001532	1.571
	223395.3626	-1.036344	3.7226	-0.000868	-0.030
43°51'	557098.3681	30.860657	3750.4979	0.001511	1.570
	223333.1819	-1.036661	3.6706	-0.000867	-0.030
43°52'	558950.0075	30.860747	3750.5886	0.001490	1.568
	223270.9823	-1.036977	3.6185	-0.000867	-0.030
43°53'	560801.6524	30.860838	3750.6780	0.001469	1.567
	223208.7637	-1.037294	3.5665	-0.000867	-0.030
43°54'	562653.3026	30.860928	3750.7661	0.001448	1.566
	223146.5260	-1.037611	3.5145	-0.000866	-0.030
43°55'	564504.9583	30.861019	3750.8530	0.001426	1.565
	223084.2694	-1.037927	3.4625	-0.000866	-0.030

43°56'	566356.6194	30.861109	3750.9386	0.001405	1.563
	223021.9937	-1.038244	3.4106	-0.000865	-0.030
43°57'	568208.2860	30.861199	3751.0229	0.001384	1.562
	222959.6991	-1.038560	3.3587	-0.000865	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°58'	570059.9579	30.861290	3751.1059	0.001363	1.561
	222897.3855	-1.038876	3.3068	-0.000864	-0.030
43°59'	571911.6353	30.861380	3751.1877	0.001342	1.560
	222835.0529	-1.039193	3.2550	-0.000864	-0.030
44° 0'	573763.3181	30.861470	3751.2682	0.001321	1.558
	222772.7013	-1.039509	3.2031	-0.000863	-0.030
44° 1'	575615.0063	30.861561	3751.3474	0.001299	1.557
	222710.3308	-1.039825	3.1513	-0.000863	-0.030
44° 2'	577466.7000	30.861651	3751.4254	0.001278	1.556
	222647.9413	-1.040141	3.0996	-0.000862	-0.030
44° 3'	579318.3991	30.861742	3751.5021	0.001257	1.555
	222585.5329	-1.040457	3.0478	-0.000862	-0.030
44° 4'	581170.1035	30.861832	3751.5775	0.001236	1.553
	222523.1055	-1.040772	2.9961	-0.000862	-0.030
44° 5'	583021.8135	30.861922	3751.6517	0.001215	1.552
	222460.6591	-1.041088	2.9444	-0.000861	-0.030
44° 6'	584873.5288	30.862013	3751.7246	0.001194	1.551
	222398.1939	-1.041404	2.8927	-0.000861	-0.030
44° 7'	586725.2496	30.862103	3751.7962	0.001173	1.550
	222335.7096	-1.041719	2.8411	-0.000860	-0.030
44° 8'	588576.9758	30.862194	3751.8666	0.001151	1.548
	222273.2065	-1.042035	2.7895	-0.000860	-0.030
44° 9'	590428.7074	30.862284	3751.9356	0.001130	1.547
	222210.6844	-1.042350	2.7379	-0.000859	-0.030
44°10'	592280.4444	30.862374	3752.0035	0.001109	1.546
	222148.1434	-1.042665	2.6864	-0.000859	-0.030
44°11'	594132.1869	30.862465	3752.0700	0.001088	1.544
	222085.5835	-1.042980	2.6348	-0.000858	-0.030
44°12'	595983.9348	30.862555	3752.1353	0.001067	1.543
	222023.0047	-1.043295	2.5833	-0.000858	-0.030
44°13'	597835.6881	30.862646	3752.1993	0.001046	1.542
	221960.4069	-1.043610	2.5319	-0.000857	-0.030
44°14'	599687.4468	30.862736	3752.2620	0.001024	1.541
	221897.7903	-1.043925	2.4804	-0.000857	-0.030
44°15'	601539.2110	30.862826	3752.3235	0.001003	1.539
	221835.1548	-1.044240	2.4290	-0.000856	-0.030
44°16'	603390.9806	30.862917	3752.3837	0.000982	1.538
	221772.5004	-1.044555	2.3776	-0.000856	-0.030
44°17'	605242.7556	30.863007	3752.4426	0.000961	1.537
	221709.8271	-1.044870	2.3263	-0.000856	-0.030

44°18'	607094.5360	30.863098	3752.5002	0.000940	1.536
	221647.1349	-1.045184	2.2749	-0.000855	-0.030
44°19'	608946.3219	30.863188	3752.5566	0.000919	1.534
	221584.4239	-1.045499	2.2236	-0.000855	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°20'	610798.1131	30.863279	3752.6117	0.000897	1.533
	221521.6939	-1.045813	2.1724	-0.000854	-0.030
44°21'	612649.9099	30.863369	3752.6656	0.000876	1.532
	221458.9451	-1.046127	2.1211	-0.000854	-0.030
44°22'	614501.7120	30.863459	3752.7182	0.000855	1.531
	221396.1775	-1.046442	2.0699	-0.000853	-0.030
44°23'	616353.5195	30.863550	3752.7695	0.000834	1.529
	221333.3910	-1.046756	2.0187	-0.000853	-0.030
44°24'	618205.3325	30.863640	3752.8195	0.000813	1.528
	221270.5857	-1.047070	1.9675	-0.000852	-0.030
44°25'	620057.1509	30.863731	3752.8683	0.000792	1.527
	221207.7615	-1.047384	1.9164	-0.000852	-0.030
44°26'	621908.9748	30.863821	3752.9158	0.000770	1.525
	221144.9185	-1.047698	1.8653	-0.000851	-0.030
44°27'	623760.8040	30.863912	3752.9620	0.000749	1.524
	221082.0566	-1.048011	1.8142	-0.000851	-0.031
44°28'	625612.6387	30.864002	3753.0069	0.000728	1.523
	221019.1759	-1.048325	1.7632	-0.000850	-0.031
44°29'	627464.4789	30.864092	3753.0506	0.000707	1.522
	220956.2764	-1.048639	1.7121	-0.000850	-0.031
44°30'	629316.3244	30.864183	3753.0930	0.000686	1.520
	220893.3581	-1.048952	1.6611	-0.000849	-0.031
44°31'	631168.1754	30.864273	3753.1342	0.000665	1.519
	220830.4210	-1.049266	1.6102	-0.000849	-0.031
44°32'	633020.0318	30.864364	3753.1740	0.000643	1.518
	220767.4650	-1.049579	1.5592	-0.000849	-0.031
44°33'	634871.8936	30.864454	3753.2126	0.000622	1.516
	220704.4903	-1.049892	1.5083	-0.000848	-0.031
44°34'	636723.7608	30.864545	3753.2500	0.000601	1.515
	220641.4967	-1.050205	1.4574	-0.000848	-0.031
44°35'	638575.6335	30.864635	3753.2860	0.000580	1.514
	220578.4844	-1.050519	1.4066	-0.000847	-0.031
44°36'	640427.5116	30.864725	3753.3208	0.000559	1.513
	220515.4533	-1.050832	1.3558	-0.000847	-0.031
44°37'	642279.3951	30.864816	3753.3544	0.000538	1.511
	220452.4034	-1.051144	1.3050	-0.000846	-0.031
44°38'	644131.2841	30.864906	3753.3866	0.000516	1.510
	220389.3347	-1.051457	1.2542	-0.000846	-0.031
44°39'	645983.1785	30.864997	3753.4176	0.000495	1.509
	220326.2473	-1.051770	1.2035	-0.000845	-0.031

44°40'	647835.0783	30.865087	3753.4473	0.000474	1.507
	220263.1411	-1.052083	1.1527	-0.000845	-0.031
44°41'	649686.9835	30.865178	3753.4757	0.000453	1.506
	220200.0161	-1.052395	1.1021	-0.000844	-0.031

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°42'	651538.8942	30.865268	3753.5029	0.000432	1.505
	220136.8724	-1.052708	1.0514	-0.000844	-0.031
44°43'	653390.8103	30.865359	3753.5288	0.000410	1.504
	220073.7099	-1.053020	1.0008	-0.000843	-0.031
44°44'	655242.7318	30.865449	3753.5534	0.000389	1.502
	220010.5287	-1.053332	0.9502	-0.000843	-0.031
44°45'	657094.6587	30.865540	3753.5768	0.000368	1.501
	219947.3288	-1.053645	0.8996	-0.000842	-0.031
44°46'	658946.5911	30.865630	3753.5989	0.000347	1.500
	219884.1101	-1.053957	0.8491	-0.000842	-0.031
44°47'	660798.5289	30.865720	3753.6197	0.000326	1.498
	219820.8727	-1.054269	0.7986	-0.000841	-0.031
44°48'	662650.4721	30.865811	3753.6392	0.000305	1.497
	219757.6165	-1.054581	0.7481	-0.000841	-0.031
44°49'	664502.4208	30.865901	3753.6575	0.000283	1.496
	219694.3417	-1.054893	0.6976	-0.000840	-0.031
44°50'	666354.3748	30.865992	3753.6745	0.000262	1.495
	219631.0481	-1.055205	0.6472	-0.000840	-0.031
44°51'	668206.3344	30.866082	3753.6903	0.000241	1.493
	219567.7359	-1.055516	0.5968	-0.000839	-0.031
44°52'	670058.2993	30.866173	3753.7047	0.000220	1.492
	219504.4049	-1.055828	0.5464	-0.000839	-0.031
44°53'	671910.2697	30.866263	3753.7179	0.000199	1.491
	219441.0552	-1.056139	0.4961	-0.000838	-0.031
44°54'	673762.2454	30.866354	3753.7299	0.000178	1.489
	219377.6869	-1.056451	0.4458	-0.000838	-0.031
44°55'	675614.2267	30.866444	3753.7405	0.000156	1.488
	219314.2998	-1.056762	0.3955	-0.000838	-0.031
44°56'	677466.2133	30.866535	3753.7499	0.000135	1.487
	219250.8941	-1.057073	0.3453	-0.000837	-0.031
44°57'	679318.2054	30.866625	3753.7580	0.000114	1.486
	219187.4697	-1.057385	0.2950	-0.000837	-0.031
44°58'	681170.2029	30.866715	3753.7649	0.000093	1.484
	219124.0266	-1.057696	0.2448	-0.000836	-0.031
44°59'	683022.2058	30.866806	3753.7704	0.000072	1.483
	219060.5649	-1.058007	0.1947	-0.000836	-0.031
45° 0'	684874.2142	30.866896	3753.7747	0.000051	1.482
	218997.0845	-1.058318	0.1445	-0.000835	-0.031
45° 1'	686726.2280	30.866987	3753.7778	0.000029	1.480
	218933.5854	-1.058628	0.0944	-0.000835	-0.031

45° 2'	688578.2472	30.867077	3753.7795	0.000008	1.479
	218870.0677	-1.058939	0.0444	-0.000834	-0.031
45° 3'	690430.2718	30.867168	3753.7800	-0.000013	1.478
	218806.5314	-1.059250	-0.0057	-0.000834	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW YORK Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45° 4'	692282.3019	30.867258	3753.7792	-0.000034	1.476
	218742.9764	-1.059560	-0.0557	-0.000833	-0.031
45° 5'	694134.3374	30.867349	3753.7772	-0.000055	1.475
	218679.4028	-1.059871	-0.1057	-0.000833	-0.031
45° 6'	695986.3783	30.867439	3753.7739	-0.000077	1.474
	218615.8105	-1.060181	-0.1557	-0.000832	-0.031
45° 7'	697838.4246	30.867530	3753.7693	-0.000098	1.473
	218552.1997	-1.060491	-0.2056	-0.000832	-0.031
45° 8'	699690.4764	30.867620	3753.7634	-0.000119	1.471
	218488.5702	-1.060802	-0.2555	-0.000831	-0.031
45° 9'	701542.5336	30.867711	3753.7563	-0.000140	1.470
	218424.9221	-1.061112	-0.3054	-0.000831	-0.031
45°10'	703394.5963	30.867801	3753.7479	-0.000161	1.469
	218361.2554	-1.061422	-0.3552	-0.000830	-0.031
45°11'	705246.6643	30.867892	3753.7382	-0.000182	1.467
	218297.5701	-1.061732	-0.4050	-0.000830	-0.031
45°12'	707098.7378	30.867982	3753.7273	-0.000204	1.466
	218233.8662	-1.062042	-0.4548	-0.000829	-0.031
45°13'	708950.8167	30.868072	3753.7150	-0.000225	1.465
	218170.1437	-1.062351	-0.5046	-0.000829	-0.031
45°14'	710802.9011	30.868163	3753.7016	-0.000246	1.463
	218106.4026	-1.062661	-0.5543	-0.000828	-0.031
45°15'	712654.9909	30.868253	3753.6868	-0.000267	1.462
	218042.6429	-1.062971	-0.6040	-0.000828	-0.031
45°16'	714507.0861	30.868344	3753.6708	-0.000288	1.461
	217978.8647	-1.063280	-0.6536	-0.000827	-0.031
45°17'	716359.1867	30.868434	3753.6535	-0.000309	1.460
	217915.0679	-1.063590	-0.7033	-0.000827	-0.031
45°18'	718211.2928	30.868525	3753.6349	-0.000331	1.458
	217851.2525	-1.063899	-0.7529	-0.000826	-0.031
45°19'	720063.4043	30.868615	3753.6151	-0.000352	1.457
	217787.4186	-1.064208	-0.8025	-0.000826	-0.031
45°20'	721915.5212	30.868706	3753.5940	-0.000373	1.456
	217723.5661	-1.064517	-0.8520	-0.000825	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
38°50'	0.0000	30.833711	2044.1210	0.020163	28.923
	41464.8233	0.161230	389.7844	0.005861	6.912
38°51'	1850.0227	30.833799	2045.3308	0.020173	28.950
	41474.4971	0.161364	390.1361	0.005869	6.923
38°52'	3700.0506	30.833888	2046.5412	0.020182	28.977
	41484.1790	0.161499	390.4882	0.005877	6.934
38°53'	5550.0839	30.833976	2047.7521	0.020191	29.003
	41493.8689	0.161633	390.8408	0.005885	6.946
38°54'	7400.1225	30.834064	2048.9636	0.020201	29.030
	41503.5669	0.161767	391.1939	0.005893	6.957
38°55'	9250.1663	30.834152	2050.1756	0.020210	29.057
	41513.2729	0.161902	391.5474	0.005901	6.968
38°56'	11100.2155	30.834241	2051.3882	0.020219	29.084
	41522.9870	0.162036	391.9015	0.005909	6.979
38°57'	12950.2699	30.834329	2052.6014	0.020229	29.110
	41532.7092	0.162171	392.2560	0.005917	6.990
38°58'	14800.3297	30.834417	2053.8151	0.020238	29.137
	41542.4394	0.162306	392.6110	0.005925	7.001
38°59'	16650.3947	30.834506	2055.0294	0.020248	29.164
	41552.1778	0.162441	392.9664	0.005933	7.013
39° 0'	18500.4650	30.834594	2056.2443	0.020257	29.191
	41561.9242	0.162576	393.3224	0.005941	7.024
39° 1'	20350.5407	30.834682	2057.4597	0.020267	29.218
	41571.6788	0.162711	393.6788	0.005949	7.035
39° 2'	22200.6216	30.834771	2058.6757	0.020276	29.245
	41581.4415	0.162846	394.0357	0.005957	7.047
39° 3'	24050.7079	30.834859	2059.8923	0.020286	29.272
	41591.2122	0.162982	394.3931	0.005965	7.058
39° 4'	25900.7994	30.834947	2061.1094	0.020295	29.299
	41600.9911	0.163117	394.7510	0.005973	7.069
39° 5'	27750.8963	30.835036	2062.3271	0.020304	29.326
	41610.7782	0.163253	395.1094	0.005981	7.081
39° 6'	29600.9984	30.835124	2063.5454	0.020314	29.353
	41620.5734	0.163389	395.4682	0.005989	7.092
39° 7'	31451.1059	30.835213	2064.7642	0.020323	29.381
	41630.3767	0.163525	395.8276	0.005997	7.104
39° 8'	33301.2186	30.835301	2065.9836	0.020333	29.408
	41640.1882	0.163661	396.1874	0.006005	7.115
39° 9'	35151.3367	30.835390	2067.2036	0.020342	29.435
	41650.0079	0.163797	396.5477	0.006013	7.126

39°10'	37001.4601	30.835478	2068.4241	0.020352	29.462
	41659.8357	0.163934	396.9085	0.006022	7.138
39°11'	38851.5888	30.835566	2069.6453	0.020362	29.489
	41669.6717	0.164070	397.2698	0.006030	7.149

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°12'	40701.7227	30.835655	2070.8670	0.020371	29.517
	41679.5159	0.164207	397.6316	0.006038	7.161
39°13'	42551.8620	30.835743	2072.0892	0.020381	29.544
	41689.3683	0.164343	397.9939	0.006046	7.173
39°14'	44402.0066	30.835832	2073.3121	0.020390	29.571
	41699.2289	0.164480	398.3567	0.006054	7.184
39°15'	46252.1566	30.835920	2074.5355	0.020400	29.599
	41709.0978	0.164617	398.7199	0.006063	7.196
39°16'	48102.3118	30.836009	2075.7595	0.020409	29.626
	41718.9748	0.164754	399.0837	0.006071	7.207
39°17'	49952.4723	30.836097	2076.9840	0.020419	29.654
	41728.8600	0.164891	399.4479	0.006079	7.219
39°18'	51802.6382	30.836186	2078.2092	0.020429	29.681
	41738.7535	0.165029	399.8127	0.006087	7.231
39°19'	53652.8093	30.836274	2079.4349	0.020438	29.709
	41748.6552	0.165166	400.1779	0.006096	7.242
39°20'	55502.9858	30.836363	2080.6612	0.020448	29.736
	41758.5652	0.165304	400.5437	0.006104	7.254
39°21'	57353.1676	30.836452	2081.8881	0.020458	29.764
	41768.4834	0.165442	400.9099	0.006112	7.266
39°22'	59203.3547	30.836540	2083.1155	0.020467	29.791
	41778.4099	0.165579	401.2767	0.006121	7.278
39°23'	61053.5471	30.836629	2084.3436	0.020477	29.819
	41788.3447	0.165717	401.6439	0.006129	7.289
39°24'	62903.7448	30.836717	2085.5722	0.020487	29.847
	41798.2877	0.165855	402.0116	0.006137	7.301
39°25'	64753.9478	30.836806	2086.8014	0.020496	29.874
	41808.2391	0.165994	402.3799	0.006146	7.313
39°26'	66604.1562	30.836895	2088.0311	0.020506	29.902
	41818.1987	0.166132	402.7486	0.006154	7.325
39°27'	68454.3699	30.836983	2089.2615	0.020516	29.930
	41828.1666	0.166270	403.1178	0.006162	7.337
39°28'	70304.5889	30.837072	2090.4924	0.020525	29.958
	41838.1428	0.166409	403.4876	0.006171	7.349
39°29'	72154.8132	30.837161	2091.7240	0.020535	29.985
	41848.1274	0.166548	403.8578	0.006179	7.361
39°30'	74005.0428	30.837249	2092.9561	0.020545	30.013
	41858.1202	0.166687	404.2286	0.006188	7.373
39°31'	75855.2778	30.837338	2094.1888	0.020555	30.041
	41868.1214	0.166826	404.5998	0.006196	7.385

39°32'	77705.5180	30.837427	2095.4220	0.020564	30.069
	41878.1310	0.166965	404.9716	0.006205	7.397
39°33'	79555.7636	30.837515	2096.6559	0.020574	30.097
	41888.1489	0.167104	405.3439	0.006213	7.409

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°34'	81406.0145	30.837604	2097.8903	0.020584	30.125
	41898.1751	0.167243	405.7167	0.006222	7.421
39°35'	83256.2708	30.837693	2099.1254	0.020594	30.153
	41908.2097	0.167383	406.0900	0.006230	7.433
39°36'	85106.5323	30.837781	2100.3610	0.020604	30.181
	41918.2527	0.167523	406.4638	0.006239	7.445
39°37'	86956.7992	30.837870	2101.5972	0.020613	30.209
	41928.3040	0.167662	406.8381	0.006247	7.457
39°38'	88807.0714	30.837959	2102.8340	0.020623	30.237
	41938.3638	0.167802	407.2129	0.006256	7.469
39°39'	90657.3489	30.838048	2104.0714	0.020633	30.265
	41948.4319	0.167942	407.5882	0.006264	7.481
39°40'	92507.6318	30.838136	2105.3094	0.020643	30.294
	41958.5084	0.168082	407.9641	0.006273	7.494
39°41'	94357.9200	30.838225	2106.5480	0.020653	30.322
	41968.5934	0.168223	408.3404	0.006281	7.506
39°42'	96208.2135	30.838314	2107.7871	0.020663	30.350
	41978.6867	0.168363	408.7173	0.006290	7.518
39°43'	98058.5123	30.838403	2109.0269	0.020672	30.378
	41988.7885	0.168504	409.0947	0.006299	7.530
39°44'	99908.8165	30.838491	2110.2672	0.020682	30.407
	41998.8987	0.168644	409.4726	0.006307	7.543
39°45'	101759.1260	30.838580	2111.5082	0.020692	30.435
	42009.0174	0.168785	409.8511	0.006316	7.555
39°46'	103609.4408	30.838669	2112.7497	0.020702	30.463
	42019.1445	0.168926	410.2300	0.006324	7.567
39°47'	105459.7609	30.838758	2113.9918	0.020712	30.492
	42029.2800	0.169067	410.6095	0.006333	7.580
39°48'	107310.0864	30.838847	2115.2346	0.020722	30.520
	42039.4241	0.169208	410.9895	0.006342	7.592
39°49'	109160.4172	30.838936	2116.4779	0.020732	30.548
	42049.5766	0.169350	411.3700	0.006350	7.605
39°50'	111010.7533	30.839025	2117.7218	0.020742	30.577
	42059.7375	0.169491	411.7510	0.006359	7.617
39°51'	112861.0948	30.839113	2118.9663	0.020752	30.605
	42069.9070	0.169633	412.1325	0.006368	7.629
39°52'	114711.4416	30.839202	2120.2114	0.020762	30.634
	42080.0850	0.169774	412.5146	0.006377	7.642
39°53'	116561.7938	30.839291	2121.4571	0.020772	30.663
	42090.2714	0.169916	412.8972	0.006385	7.655

39°54'	118412.1512	30.839380	2122.7034	0.020782	30.691
	42100.4664	0.170058	413.2803	0.006394	7.667
39°55'	120262.5140	30.839469	2123.9504	0.020792	30.720
	42110.6699	0.170200	413.6640	0.006403	7.680

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
39°56'	122112.8822	30.839558	2125.1979	0.020802	30.749
	42120.8819	0.170343	414.0482	0.006412	7.692
39°57'	123963.2556	30.839647	2126.4460	0.020812	30.777
	42131.1025	0.170485	414.4329	0.006421	7.705
39°58'	125813.6345	30.839736	2127.6947	0.020822	30.806
	42141.3316	0.170628	414.8181	0.006429	7.718
39°59'	127664.0186	30.839825	2128.9440	0.020832	30.835
	42151.5692	0.170770	415.2039	0.006438	7.730
40° 0'	129514.4081	30.839914	2130.1939	0.020842	30.864
	42161.8154	0.170913	415.5902	0.006447	7.743
40° 1'	131364.8029	30.840003	2131.4445	0.020852	30.893
	42172.0702	0.171056	415.9770	0.006456	7.756
40° 2'	133215.2031	30.840092	2132.6956	0.020862	30.921
	42182.3336	0.171199	416.3644	0.006465	7.768
40° 3'	135065.6086	30.840181	2133.9473	0.020872	30.950
	42192.6055	0.171342	416.7522	0.006474	7.781
40° 4'	136916.0194	30.840270	2135.1997	0.020882	30.979
	42202.8860	0.171485	417.1407	0.006483	7.794
40° 5'	138766.4356	30.840359	2136.4526	0.020893	31.008
	42213.1752	0.171629	417.5296	0.006492	7.807
40° 6'	140616.8571	30.840448	2137.7062	0.020903	31.037
	42223.4729	0.171773	417.9191	0.006501	7.820
40° 7'	142467.2839	30.840537	2138.9603	0.020913	31.066
	42233.7792	0.171916	418.3092	0.006510	7.832
40° 8'	144317.7161	30.840626	2140.2151	0.020923	31.095
	42244.0942	0.172060	418.6997	0.006518	7.845
40° 9'	146168.1537	30.840715	2141.4705	0.020933	31.125
	42254.4178	0.172204	419.0908	0.006527	7.858
40°10'	148018.5966	30.840804	2142.7265	0.020943	31.154
	42264.7501	0.172348	419.4825	0.006536	7.871
40°11'	149869.0448	30.840893	2143.9830	0.020953	31.183
	42275.0910	0.172493	419.8747	0.006545	7.884
40°12'	151719.4984	30.840982	2145.2403	0.020964	31.212
	42285.4405	0.172637	420.2674	0.006555	7.897
40°13'	153569.9573	30.841071	2146.4981	0.020974	31.241
	42295.7987	0.172781	420.6607	0.006564	7.910
40°14'	155420.4215	30.841160	2147.7565	0.020984	31.271
	42306.1656	0.172926	421.0545	0.006573	7.923
40°15'	157270.8912	30.841249	2149.0156	0.020994	31.300
	42316.5412	0.173071	421.4488	0.006582	7.936

40°16'	159121.3661	30.841338	2150.2752	0.021005	31.329
	42326.9254	0.173216	421.8437	0.006591	7.950
40°17'	160971.8464	30.841427	2151.5355	0.021015	31.359
	42337.3184	0.173361	422.2392	0.006600	7.963

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°18'	162822.3321	30.841517	2152.7964	0.021025	31.388
	42347.7201	0.173506	422.6352	0.006609	7.976
40°19'	164672.8230	30.841606	2154.0579	0.021035	31.418
	42358.1304	0.173652	423.0317	0.006618	7.989
40°20'	166523.3194	30.841695	2155.3200	0.021046	31.447
	42368.5495	0.173797	423.4288	0.006627	8.002
40°21'	168373.8211	30.841784	2156.5828	0.021056	31.477
	42378.9773	0.173943	423.8265	0.006636	8.016
40°22'	170224.3281	30.841873	2157.8461	0.021066	31.506
	42389.4139	0.174088	424.2246	0.006646	8.029
40°23'	172074.8405	30.841962	2159.1101	0.021077	31.536
	42399.8592	0.174234	424.6234	0.006655	8.042
40°24'	173925.3582	30.842052	2160.3747	0.021087	31.565
	42410.3133	0.174380	425.0227	0.006664	8.055
40°25'	175775.8813	30.842141	2161.6399	0.021097	31.595
	42420.7761	0.174527	425.4225	0.006673	8.069
40°26'	177626.4098	30.842230	2162.9057	0.021108	31.625
	42431.2477	0.174673	425.8229	0.006683	8.082
40°27'	179476.9436	30.842319	2164.1722	0.021118	31.654
	42441.7281	0.174819	426.2239	0.006692	8.096
40°28'	181327.4827	30.842408	2165.4393	0.021128	31.684
	42452.2172	0.174966	426.6254	0.006701	8.109
40°29'	183178.0272	30.842498	2166.7070	0.021139	31.714
	42462.7152	0.175113	427.0275	0.006710	8.122
40°30'	185028.5771	30.842587	2167.9753	0.021149	31.744
	42473.2220	0.175260	427.4301	0.006720	8.136
40°31'	186879.1323	30.842676	2169.2442	0.021160	31.774
	42483.7376	0.175407	427.8333	0.006729	8.149
40°32'	188729.6928	30.842765	2170.5138	0.021170	31.804
	42494.2620	0.175554	428.2370	0.006738	8.163
40°33'	190580.2588	30.842855	2171.7840	0.021180	31.833
	42504.7952	0.175701	428.6413	0.006748	8.177
40°34'	192430.8300	30.842944	2173.0548	0.021191	31.863
	42515.3373	0.175849	429.0462	0.006757	8.190
40°35'	194281.4067	30.843033	2174.3263	0.021201	31.893
	42525.8882	0.175996	429.4516	0.006766	8.204
40°36'	196131.9886	30.843122	2175.5984	0.021212	31.923
	42536.4479	0.176144	429.8576	0.006776	8.217
40°37'	197982.5760	30.843212	2176.8711	0.021222	31.954
	42547.0166	0.176292	430.2641	0.006785	8.231

40°38'	199833.1687	30.843301	2178.1444	0.021233	31.984
	42557.5941	0.176440	430.6712	0.006795	8.245
40°39'	201683.7667	30.843390	2179.4184	0.021243	32.014
	42568.1805	0.176588	431.0789	0.006804	8.259

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
40°40'	203534.3702	30.843480	2180.6930	0.021254	32.044
	42578.7757	0.176736	431.4872	0.006814	8.272
40°41'	205384.9789	30.843569	2181.9682	0.021264	32.074
	42589.3799	0.176885	431.8960	0.006823	8.286
40°42'	207235.5931	30.843658	2183.2440	0.021275	32.104
	42599.9930	0.177033	432.3054	0.006833	8.300
40°43'	209086.2126	30.843748	2184.5205	0.021285	32.135
	42610.6150	0.177182	432.7153	0.006842	8.314
40°44'	210936.8374	30.843837	2185.7976	0.021296	32.165
	42621.2459	0.177331	433.1259	0.006852	8.328
40°45'	212787.4676	30.843926	2187.0754	0.021306	32.195
	42631.8857	0.177480	433.5370	0.006861	8.342
40°46'	214638.1032	30.844016	2188.3538	0.021317	32.226
	42642.5345	0.177629	433.9486	0.006871	8.356
40°47'	216488.7441	30.844105	2189.6328	0.021328	32.256
	42653.1922	0.177778	434.3609	0.006880	8.370
40°48'	218339.3904	30.844194	2190.9125	0.021338	32.287
	42663.8589	0.177928	434.7737	0.006890	8.384
40°49'	220190.0421	30.844284	2192.1928	0.021349	32.317
	42674.5346	0.178077	435.1871	0.006900	8.398
40°50'	222040.6991	30.844373	2193.4737	0.021360	32.348
	42685.2192	0.178227	435.6011	0.006909	8.412
40°51'	223891.3615	30.844463	2194.7553	0.021370	32.378
	42695.9128	0.178377	436.0156	0.006919	8.426
40°52'	225742.0293	30.844552	2196.0375	0.021381	32.409
	42706.6154	0.178527	436.4307	0.006928	8.440
40°53'	227592.7024	30.844641	2197.3203	0.021391	32.440
	42717.3270	0.178677	436.8464	0.006938	8.454
40°54'	229443.3809	30.844731	2198.6038	0.021402	32.470
	42728.0476	0.178827	437.2627	0.006948	8.468
40°55'	231294.0648	30.844820	2199.8879	0.021413	32.501
	42738.7773	0.178978	437.6796	0.006957	8.482
40°56'	233144.7540	30.844910	2201.1727	0.021424	32.532
	42749.5159	0.179128	438.0970	0.006967	8.496
40°57'	234995.4486	30.844999	2202.4581	0.021434	32.562
	42760.2636	0.179279	438.5151	0.006977	8.511
40°58'	236846.1485	30.845089	2203.7442	0.021445	32.593
	42771.0203	0.179430	438.9337	0.006987	8.525
40°59'	238696.8538	30.845178	2205.0309	0.021456	32.624
	42781.7861	0.179581	439.3529	0.006996	8.539

41° 0'	240547.5645	30.845268	2206.3182	0.021466	32.655
	42792.5609	0.179732	439.7727	0.007006	8.554
41° 1'	242398.2806	30.845357	2207.6062	0.021477	32.686
	42803.3448	0.179883	440.1931	0.007016	8.568

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41° 2'	244249.0020	30.845447	2208.8948	0.021488	32.717
	42814.1378	0.180035	440.6140	0.007026	8.582
41° 3'	246099.7288	30.845536	2210.1841	0.021499	32.748
	42824.9399	0.180186	441.0356	0.007036	8.597
41° 4'	247950.4610	30.845626	2211.4741	0.021510	32.779
	42835.7511	0.180338	441.4577	0.007046	8.611
41° 5'	249801.1985	30.845715	2212.7646	0.021520	32.810
	42846.5713	0.180490	441.8804	0.007055	8.626
41° 6'	251651.9414	30.845805	2214.0558	0.021531	32.841
	42857.4007	0.180642	442.3038	0.007065	8.640
41° 7'	253502.6897	30.845894	2215.3477	0.021542	32.872
	42868.2392	0.180794	442.7277	0.007075	8.655
41° 8'	255353.4434	30.845984	2216.6402	0.021553	32.904
	42879.0869	0.180946	443.1522	0.007085	8.669
41° 9'	257204.2024	30.846073	2217.9334	0.021564	32.935
	42889.9437	0.181099	443.5773	0.007095	8.684
41°10'	259054.9668	30.846163	2219.2272	0.021575	32.966
	42900.8096	0.181251	444.0030	0.007105	8.699
41°11'	260905.7366	30.846252	2220.5217	0.021585	32.997
	42911.6847	0.181404	444.4293	0.007115	8.713
41°12'	262756.5117	30.846342	2221.8168	0.021596	33.029
	42922.5689	0.181557	444.8562	0.007125	8.728
41°13'	264607.2922	30.846432	2223.1126	0.021607	33.060
	42933.4623	0.181710	445.2837	0.007135	8.743
41°14'	266458.0781	30.846521	2224.4091	0.021618	33.091
	42944.3649	0.181863	445.7118	0.007145	8.758
41°15'	268308.8694	30.846611	2225.7061	0.021629	33.123
	42955.2767	0.182017	446.1405	0.007155	8.772
41°16'	270159.6660	30.846700	2227.0039	0.021640	33.154
	42966.1977	0.182170	446.5698	0.007165	8.787
41°17'	272010.4681	30.846790	2228.3023	0.021651	33.186
	42977.1279	0.182324	446.9997	0.007175	8.802
41°18'	273861.2755	30.846880	2229.6013	0.021662	33.217
	42988.0673	0.182478	447.4302	0.007185	8.817
41°19'	275712.0882	30.846969	2230.9011	0.021673	33.249
	42999.0160	0.182632	447.8614	0.007195	8.832
41°20'	277562.9064	30.847059	2232.2014	0.021684	33.281
	43009.9739	0.182786	448.2931	0.007205	8.847
41°21'	279413.7299	30.847148	2233.5025	0.021695	33.312
	43020.9410	0.182940	448.7254	0.007216	8.862

41°22'	281264.5588	30.847238	2234.8042	0.021706	33.344
	43031.9174	0.183094	449.1583	0.007226	8.877
41°23'	283115.3931	30.847328	2236.1065	0.021717	33.376
	43042.9031	0.183249	449.5919	0.007236	8.892

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°24'	284966.2328	30.847417	2237.4095	0.021728	33.408
	43053.8980	0.183403	450.0260	0.007246	8.907
41°25'	286817.0778	30.847507	2238.7132	0.021739	33.439
	43064.9022	0.183558	450.4608	0.007256	8.922
41°26'	288667.9282	30.847597	2240.0176	0.021750	33.471
	43075.9157	0.183713	450.8962	0.007267	8.937
41°27'	290518.7840	30.847686	2241.3226	0.021761	33.503
	43086.9385	0.183868	451.3322	0.007277	8.952
41°28'	292369.6452	30.847776	2242.6282	0.021772	33.535
	43097.9706	0.184024	451.7688	0.007287	8.967
41°29'	294220.5118	30.847866	2243.9346	0.021783	33.567
	43109.0120	0.184179	452.2060	0.007297	8.983
41°30'	296071.3837	30.847955	2245.2416	0.021794	33.599
	43120.0628	0.184335	452.6439	0.007308	8.998
41°31'	297922.2611	30.848045	2246.5492	0.021806	33.631
	43131.1229	0.184491	453.0823	0.007318	9.013
41°32'	299773.1438	30.848135	2247.8576	0.021817	33.663
	43142.1923	0.184646	453.5214	0.007328	9.028
41°33'	301624.0319	30.848225	2249.1666	0.021828	33.695
	43153.2711	0.184803	453.9611	0.007339	9.044
41°34'	303474.9254	30.848314	2250.4762	0.021839	33.728
	43164.3593	0.184959	454.4014	0.007349	9.059
41°35'	305325.8242	30.848404	2251.7866	0.021850	33.760
	43175.4568	0.185115	454.8424	0.007359	9.075
41°36'	307176.7285	30.848494	2253.0976	0.021861	33.792
	43186.5637	0.185272	455.2839	0.007370	9.090
41°37'	309027.6381	30.848584	2254.4093	0.021873	33.824
	43197.6800	0.185428	455.7261	0.007380	9.105
41°38'	310878.5531	30.848673	2255.7216	0.021884	33.857
	43208.8057	0.185585	456.1689	0.007391	9.121
41°39'	312729.4735	30.848763	2257.0347	0.021895	33.889
	43219.9408	0.185742	456.6124	0.007401	9.136
41°40'	314580.3993	30.848853	2258.3484	0.021906	33.921
	43231.0853	0.185899	457.0564	0.007412	9.152
41°41'	316431.3305	30.848943	2259.6627	0.021917	33.954
	43242.2393	0.186056	457.5011	0.007422	9.168
41°42'	318282.2670	30.849032	2260.9778	0.021929	33.986
	43253.4026	0.186214	457.9465	0.007433	9.183
41°43'	320133.2090	30.849122	2262.2935	0.021940	34.019
	43264.5755	0.186371	458.3924	0.007443	9.199

41°44'	321984.1563	30.849212	2263.6099	0.021951	34.051
	43275.7578	0.186529	458.8390	0.007454	9.215
41°45'	323835.1090	30.849302	2264.9270	0.021963	34.084
	43286.9495	0.186687	459.2862	0.007464	9.230

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°46'	325686.0671	30.849392	2266.2447	0.021974	34.117
	43298.1507	0.186845	459.7341	0.007475	9.246
41°47'	327537.0306	30.849481	2267.5632	0.021985	34.149
	43309.3615	0.187003	460.1826	0.007485	9.262
41°48'	329387.9995	30.849571	2268.8823	0.021997	34.182
	43320.5817	0.187162	460.6317	0.007496	9.278
41°49'	331238.9738	30.849661	2270.2021	0.022008	34.215
	43331.8114	0.187320	461.0814	0.007507	9.294
41°50'	333089.9534	30.849751	2271.5225	0.022019	34.248
	43343.0506	0.187479	461.5318	0.007517	9.310
41°51'	334940.9385	30.849841	2272.8437	0.022031	34.280
	43354.2993	0.187638	461.9829	0.007528	9.325
41°52'	336791.9289	30.849931	2274.1655	0.022042	34.313
	43365.5576	0.187797	462.4346	0.007539	9.341
41°53'	338642.9247	30.850020	2275.4881	0.022053	34.346
	43376.8254	0.187956	462.8869	0.007549	9.357
41°54'	340493.9260	30.850110	2276.8113	0.022065	34.379
	43388.1027	0.188115	463.3398	0.007560	9.373
41°55'	342344.9326	30.850200	2278.1351	0.022076	34.412
	43399.3896	0.188275	463.7935	0.007571	9.389
41°56'	344195.9446	30.850290	2279.4597	0.022088	34.445
	43410.6861	0.188434	464.2477	0.007582	9.406
41°57'	346046.9620	30.850380	2280.7850	0.022099	34.478
	43421.9922	0.188594	464.7026	0.007592	9.422
41°58'	347897.9848	30.850470	2282.1109	0.022111	34.511
	43433.3078	0.188754	465.1581	0.007603	9.438
41°59'	349749.0129	30.850560	2283.4376	0.022122	34.545
	43444.6331	0.188914	465.6143	0.007614	9.454
42° 0'	351600.0465	30.850649	2284.7649	0.022134	34.578
	43455.9679	0.189074	466.0712	0.007625	9.470
42° 1'	353451.0855	30.850739	2286.0929	0.022145	34.611
	43467.3124	0.189235	466.5287	0.007636	9.487
42° 2'	355302.1298	30.850829	2287.4216	0.022157	34.644
	43478.6664	0.189395	466.9868	0.007647	9.503
42° 3'	357153.1796	30.850919	2288.7510	0.022168	34.678
	43490.0302	0.189556	467.4456	0.007657	9.519
42° 4'	359004.2347	30.851009	2290.0811	0.022180	34.711
	43501.4035	0.189717	467.9051	0.007668	9.536
42° 5'	360855.2953	30.851099	2291.4119	0.022191	34.744
	43512.7865	0.189878	468.3652	0.007679	9.552

42° 6'	362706.3612	30.851189	2292.7433	0.022203	34.778
	43524.1792	0.190039	468.8259	0.007690	9.568
42° 7'	364557.4326	30.851279	2294.0755	0.022214	34.811
	43535.5815	0.190200	469.2873	0.007701	9.585

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42° 8'	366408.5093	30.851369	2295.4083	0.022226	34.845
	43546.9936	0.190362	469.7494	0.007712	9.601
42° 9'	368259.5914	30.851459	2296.7419	0.022238	34.878
	43558.4153	0.190524	470.2122	0.007723	9.618
42°10'	370110.6790	30.851549	2298.0762	0.022249	34.912
	43569.8467	0.190685	470.6755	0.007734	9.634
42°11'	371961.7719	30.851639	2299.4111	0.022261	34.946
	43581.2878	0.190847	471.1396	0.007745	9.651
42°12'	373812.8702	30.851729	2300.7467	0.022272	34.979
	43592.7387	0.191010	471.6043	0.007756	9.668
42°13'	375663.9739	30.851819	2302.0831	0.022284	35.013
	43604.1992	0.191172	472.0697	0.007767	9.684
42°14'	377515.0830	30.851909	2303.4201	0.022296	35.047
	43615.6695	0.191334	472.5358	0.007779	9.701
42°15'	379366.1975	30.851998	2304.7579	0.022307	35.081
	43627.1496	0.191497	473.0025	0.007790	9.718
42°16'	381217.3174	30.852088	2306.0963	0.022319	35.114
	43638.6394	0.191660	473.4699	0.007801	9.735
42°17'	383068.4427	30.852178	2307.4355	0.022331	35.148
	43650.1390	0.191823	473.9379	0.007812	9.751
42°18'	384919.5735	30.852268	2308.7753	0.022343	35.182
	43661.6484	0.191986	474.4066	0.007823	9.768
42°19'	386770.7096	30.852358	2310.1159	0.022354	35.216
	43673.1675	0.192149	474.8760	0.007834	9.785
42°20'	388621.8511	30.852448	2311.4571	0.022366	35.250
	43684.6965	0.192313	475.3461	0.007846	9.802
42°21'	390472.9980	30.852538	2312.7991	0.022378	35.284
	43696.2352	0.192476	475.8168	0.007857	9.819
42°22'	392324.1503	30.852628	2314.1417	0.022390	35.318
	43707.7838	0.192640	476.2882	0.007868	9.836
42°23'	394175.3080	30.852718	2315.4851	0.022401	35.353
	43719.3422	0.192804	476.7603	0.007879	9.853
42°24'	396026.4711	30.852809	2316.8292	0.022413	35.387
	43730.9105	0.192968	477.2331	0.007891	9.870
42°25'	397877.6396	30.852899	2318.1740	0.022425	35.421
	43742.4885	0.193132	477.7065	0.007902	9.887
42°26'	399728.8135	30.852989	2319.5195	0.022437	35.455
	43754.0765	0.193297	478.1806	0.007913	9.904
42°27'	401579.9928	30.853079	2320.8657	0.022449	35.490
	43765.6743	0.193461	478.6554	0.007925	9.922

42°28'	403431.1776	30.853169	2322.2126	0.022460	35.524
	43777.2820	0.193626	479.1309	0.007936	9.939
42°29'	405282.3677	30.853259	2323.5602	0.022472	35.558
	43788.8995	0.193791	479.6071	0.007947	9.956

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°30'	407133.5632	30.853349	2324.9086	0.022484	35.593
	43800.5270	0.193956	480.0839	0.007959	9.973
42°31'	408984.7641	30.853439	2326.2576	0.022496	35.627
	43812.1644	0.194121	480.5615	0.007970	9.991
42°32'	410835.9705	30.853529	2327.6074	0.022508	35.662
	43823.8116	0.194287	481.0397	0.007982	10.008
42°33'	412687.1822	30.853619	2328.9579	0.022520	35.696
	43835.4689	0.194452	481.5186	0.007993	10.025
42°34'	414538.3993	30.853709	2330.3091	0.022532	35.731
	43847.1360	0.194618	481.9982	0.008005	10.043
42°35'	416389.6219	30.853799	2331.6610	0.022544	35.766
	43858.8131	0.194784	482.4785	0.008016	10.060
42°36'	418240.8498	30.853889	2333.0136	0.022556	35.800
	43870.5001	0.194950	482.9594	0.008028	10.078
42°37'	420092.0832	30.853979	2334.3670	0.022568	35.835
	43882.1971	0.195116	483.4411	0.008039	10.095
42°38'	421943.3219	30.854069	2335.7210	0.022580	35.870
	43893.9041	0.195283	483.9235	0.008051	10.113
42°39'	423794.5661	30.854159	2337.0758	0.022592	35.905
	43905.6211	0.195449	484.4065	0.008063	10.131
42°40'	425645.8157	30.854250	2338.4313	0.022604	35.939
	43917.3480	0.195616	484.8903	0.008074	10.148
42°41'	427497.0706	30.854340	2339.7875	0.022616	35.974
	43929.0850	0.195783	485.3747	0.008086	10.166
42°42'	429348.3310	30.854430	2341.1445	0.022628	36.009
	43940.8320	0.195950	485.8599	0.008097	10.184
42°43'	431199.5968	30.854520	2342.5021	0.022640	36.044
	43952.5890	0.196117	486.3457	0.008109	10.201
42°44'	433050.8680	30.854610	2343.8605	0.022652	36.079
	43964.3560	0.196285	486.8323	0.008121	10.219
42°45'	434902.1446	30.854700	2345.2197	0.022664	36.114
	43976.1331	0.196452	487.3195	0.008133	10.237
42°46'	436753.4266	30.854790	2346.5795	0.022676	36.150
	43987.9203	0.196620	487.8075	0.008144	10.255
42°47'	438604.7140	30.854880	2347.9401	0.022688	36.185
	43999.7175	0.196788	488.2961	0.008156	10.273
42°48'	440456.0068	30.854971	2349.3014	0.022700	36.220
	44011.5248	0.196956	488.7855	0.008168	10.291
42°49'	442307.3051	30.855061	2350.6634	0.022712	36.255
	44023.3421	0.197124	489.2755	0.008180	10.309

42°50'	444158.6087	30.855151	2352.0261	0.022725	36.290
	44035.1696	0.197293	489.7663	0.008191	10.327
42°51'	446009.9178	30.855241	2353.3896	0.022737	36.326
	44047.0072	0.197461	490.2578	0.008203	10.345

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°52'	447861.2322	30.855331	2354.7538	0.022749	36.361
	44058.8549	0.197630	490.7500	0.008215	10.363
42°53'	449712.5521	30.855421	2356.1187	0.022761	36.397
	44070.7127	0.197799	491.2429	0.008227	10.381
42°54'	451563.8774	30.855511	2357.4844	0.022773	36.432
	44082.5806	0.197968	491.7365	0.008239	10.399
42°55'	453415.2081	30.855602	2358.8508	0.022786	36.468
	44094.4587	0.198138	492.2309	0.008251	10.417
42°56'	455266.5442	30.855692	2360.2180	0.022798	36.503
	44106.3470	0.198307	492.7259	0.008263	10.436
42°57'	457117.8857	30.855782	2361.5858	0.022810	36.539
	44118.2454	0.198477	493.2217	0.008275	10.454
42°58'	458969.2326	30.855872	2362.9544	0.022822	36.574
	44130.1540	0.198646	493.7182	0.008287	10.472
42°59'	460820.5849	30.855962	2364.3238	0.022835	36.610
	44142.0728	0.198816	494.2154	0.008299	10.491
43° 0'	462671.9427	30.856053	2365.6939	0.022847	36.646
	44154.0018	0.198987	494.7133	0.008311	10.509
43° 1'	464523.3058	30.856143	2367.0647	0.022859	36.682
	44165.9410	0.199157	495.2119	0.008323	10.528
43° 2'	466374.6744	30.856233	2368.4362	0.022872	36.718
	44177.8904	0.199327	495.7113	0.008335	10.546
43° 3'	468226.0484	30.856323	2369.8085	0.022884	36.753
	44189.8500	0.199498	496.2114	0.008347	10.565
43° 4'	470077.4278	30.856413	2371.1815	0.022896	36.789
	44201.8199	0.199669	496.7122	0.008359	10.583
43° 5'	471928.8126	30.856504	2372.5553	0.022909	36.825
	44213.8001	0.199840	497.2138	0.008371	10.602
43° 6'	473780.2028	30.856594	2373.9298	0.022921	36.861
	44225.7905	0.200011	497.7161	0.008383	10.620
43° 7'	475631.5984	30.856684	2375.3051	0.022933	36.897
	44237.7911	0.200182	498.2191	0.008396	10.639
43° 8'	477482.9995	30.856774	2376.6811	0.022946	36.934
	44249.8021	0.200354	498.7228	0.008408	10.658
43° 9'	479334.4059	30.856864	2378.0578	0.022958	36.970
	44261.8233	0.200526	499.2273	0.008420	10.677
43°10'	481185.8178	30.856955	2379.4353	0.022971	37.006
	44273.8549	0.200698	499.7325	0.008432	10.695
43°11'	483037.2351	30.857045	2380.8136	0.022983	37.042
	44285.8967	0.200870	500.2384	0.008445	10.714

43°12'	484888.6578	30.857135	2382.1925	0.022995	37.078
	44297.9489	0.201042	500.7451	0.008457	10.733
43°13'	486740.0859	30.857225	2383.5723	0.023008	37.115
	44310.0114	0.201214	501.2525	0.008469	10.752

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°14'	488591.5194	30.857316	2384.9527	0.023020	37.151
	44322.0843	0.201387	501.7606	0.008481	10.771
43°15'	490442.9583	30.857406	2386.3340	0.023033	37.188
	44334.1675	0.201560	502.2695	0.008494	10.790
43°16'	492294.4027	30.857496	2387.7159	0.023045	37.224
	44346.2611	0.201733	502.7791	0.008506	10.809
43°17'	494145.8525	30.857586	2389.0987	0.023058	37.260
	44358.3650	0.201906	503.2895	0.008519	10.828
43°18'	495997.3076	30.857677	2390.4822	0.023071	37.297
	44370.4793	0.202079	503.8006	0.008531	10.847
43°19'	497848.7682	30.857767	2391.8664	0.023083	37.334
	44382.6041	0.202252	504.3125	0.008543	10.867
43°20'	499700.2343	30.857857	2393.2514	0.023096	37.370
	44394.7392	0.202426	504.8251	0.008556	10.886
43°21'	501551.7057	30.857947	2394.6371	0.023108	37.407
	44406.8848	0.202600	505.3385	0.008568	10.905
43°22'	503403.1825	30.858038	2396.0236	0.023121	37.444
	44419.0408	0.202774	505.8526	0.008581	10.924
43°23'	505254.6648	30.858128	2397.4109	0.023133	37.481
	44431.2072	0.202948	506.3674	0.008593	10.944
43°24'	507106.1525	30.858218	2398.7989	0.023146	37.517
	44443.3841	0.203122	506.8830	0.008606	10.963
43°25'	508957.6456	30.858309	2400.1876	0.023159	37.554
	44455.5715	0.203297	507.3994	0.008619	10.983
43°26'	510809.1441	30.858399	2401.5772	0.023171	37.591
	44467.7693	0.203472	507.9165	0.008631	11.002
43°27'	512660.6480	30.858489	2402.9674	0.023184	37.628
	44479.9776	0.203647	508.4344	0.008644	11.022
43°28'	514512.1574	30.858579	2404.3585	0.023197	37.665
	44492.1964	0.203822	508.9530	0.008656	11.041
43°29'	516363.6722	30.858670	2405.7503	0.023209	37.702
	44504.4257	0.203997	509.4724	0.008669	11.061
43°30'	518215.1923	30.858760	2407.1429	0.023222	37.739
	44516.6655	0.204172	509.9925	0.008682	11.080
43°31'	520066.7179	30.858850	2408.5362	0.023235	37.777
	44528.9158	0.204348	510.5134	0.008694	11.100
43°32'	521918.2490	30.858941	2409.9303	0.023248	37.814
	44541.1767	0.204524	511.0351	0.008707	11.120
43°33'	523769.7854	30.859031	2411.3251	0.023260	37.851
	44553.4481	0.204700	511.5575	0.008720	11.140

43°34'	525621.3273	30.859121	2412.7208	0.023273	37.888
	44565.7301	0.204876	512.0807	0.008733	11.159
43°35'	527472.8745	30.859212	2414.1172	0.023286	37.926
	44578.0226	0.205052	512.6047	0.008746	11.179

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°36'	529324.4272	30.859302	2415.5143	0.023299	37.963
	44590.3258	0.205229	513.1294	0.008758	11.199
43°37'	531175.9854	30.859392	2416.9122	0.023312	38.001
	44602.6395	0.205405	513.6549	0.008771	11.219
43°38'	533027.5489	30.859483	2418.3109	0.023324	38.038
	44614.9638	0.205582	514.1812	0.008784	11.239
43°39'	534879.1179	30.859573	2419.7104	0.023337	38.076
	44627.2987	0.205759	514.7083	0.008797	11.259
43°40'	536730.6922	30.859663	2421.1106	0.023350	38.113
	44639.6443	0.205937	515.2361	0.008810	11.279
43°41'	538582.2720	30.859754	2422.5116	0.023363	38.151
	44652.0005	0.206114	515.7647	0.008823	11.299
43°42'	540433.8572	30.859844	2423.9134	0.023376	38.189
	44664.3673	0.206292	516.2940	0.008836	11.319
43°43'	542285.4479	30.859934	2425.3160	0.023389	38.226
	44676.7448	0.206469	516.8242	0.008849	11.340
43°44'	544137.0439	30.860025	2426.7193	0.023402	38.264
	44689.1330	0.206647	517.3551	0.008862	11.360
43°45'	545988.6454	30.860115	2428.1234	0.023415	38.302
	44701.5318	0.206826	517.8868	0.008875	11.380
43°46'	547840.2523	30.860205	2429.5283	0.023428	38.340
	44713.9414	0.207004	518.4193	0.008888	11.400
43°47'	549691.8646	30.860296	2430.9340	0.023441	38.378
	44726.3616	0.207182	518.9526	0.008901	11.421
43°48'	551543.4824	30.860386	2432.3404	0.023454	38.416
	44738.7925	0.207361	519.4866	0.008914	11.441
43°49'	553395.1055	30.860476	2433.7476	0.023467	38.454
	44751.2342	0.207540	520.0215	0.008927	11.462
43°50'	555246.7341	30.860567	2435.1556	0.023480	38.492
	44763.6866	0.207719	520.5571	0.008940	11.482
43°51'	557098.3681	30.860657	2436.5644	0.023493	38.530
	44776.1498	0.207898	521.0935	0.008954	11.503
43°52'	558950.0075	30.860747	2437.9739	0.023506	38.568
	44788.6237	0.208078	521.6307	0.008967	11.523
43°53'	560801.6524	30.860838	2439.3843	0.023519	38.606
	44801.1083	0.208257	522.1688	0.008980	11.544
43°54'	562653.3026	30.860928	2440.7954	0.023532	38.645
	44813.6038	0.208437	522.7075	0.008993	11.565
43°55'	564504.9583	30.861019	2442.2073	0.023545	38.683
	44826.1100	0.208617	523.2471	0.009006	11.585

43°56'	566356.6194	30.861109	2443.6200	0.023558	38.721
	44838.6270	0.208797	523.7875	0.009020	11.606
43°57'	568208.2860	30.861199	2445.0335	0.023571	38.760
	44851.1549	0.208978	524.3287	0.009033	11.627

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°58'	570059.9579	30.861290	2446.4477	0.023584	38.798
	44863.6936	0.209158	524.8707	0.009046	11.648
43°59'	571911.6353	30.861380	2447.8628	0.023597	38.837
	44876.2431	0.209339	525.4135	0.009060	11.669
44° 0'	573763.3181	30.861470	2449.2786	0.023611	38.875
	44888.8034	0.209520	525.9571	0.009073	11.690
44° 1'	575615.0063	30.861561	2450.6953	0.023624	38.914
	44901.3746	0.209701	526.5014	0.009087	11.711
44° 2'	577466.7000	30.861651	2452.1127	0.023637	38.953
	44913.9567	0.209883	527.0466	0.009100	11.732
44° 3'	579318.3991	30.861742	2453.5309	0.023650	38.991
	44926.5497	0.210064	527.5926	0.009113	11.753
44° 4'	581170.1035	30.861832	2454.9499	0.023663	39.030
	44939.1535	0.210246	528.1394	0.009127	11.774
44° 5'	583021.8135	30.861922	2456.3697	0.023677	39.069
	44951.7683	0.210428	528.6871	0.009140	11.795
44° 6'	584873.5288	30.862013	2457.7903	0.023690	39.108
	44964.3939	0.210610	529.2355	0.009154	11.816
44° 7'	586725.2496	30.862103	2459.2117	0.023703	39.147
	44977.0305	0.210792	529.7847	0.009168	11.838
44° 8'	588576.9758	30.862194	2460.6339	0.023716	39.186
	44989.6781	0.210975	530.3348	0.009181	11.859
44° 9'	590428.7074	30.862284	2462.0569	0.023730	39.225
	45002.3365	0.211157	530.8856	0.009195	11.880
44°10'	592280.4444	30.862374	2463.4806	0.023743	39.264
	45015.0060	0.211340	531.4373	0.009208	11.902
44°11'	594132.1869	30.862465	2464.9052	0.023756	39.303
	45027.6864	0.211523	531.9898	0.009222	11.923
44°12'	595983.9348	30.862555	2466.3306	0.023770	39.342
	45040.3778	0.211706	532.5431	0.009236	11.945
44°13'	597835.6881	30.862646	2467.7568	0.023783	39.381
	45053.0801	0.211890	533.0973	0.009249	11.966
44°14'	599687.4468	30.862736	2469.1838	0.023796	39.421
	45065.7935	0.212073	533.6522	0.009263	11.988
44°15'	601539.2110	30.862826	2470.6116	0.023810	39.460
	45078.5179	0.212257	534.2080	0.009277	12.009
44°16'	603390.9806	30.862917	2472.0401	0.023823	39.499
	45091.2533	0.212441	534.7646	0.009291	12.031
44°17'	605242.7556	30.863007	2473.4695	0.023837	39.539
	45103.9998	0.212625	535.3221	0.009304	12.053

44°18'	607094.5360	30.863098	2474.8997	0.023850	39.578
	45116.7573	0.212810	535.8803	0.009318	12.075
44°19'	608946.3219	30.863188	2476.3307	0.023864	39.618
	45129.5259	0.212994	536.4394	0.009332	12.097

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°20'	610798.1131	30.863279	2477.7625	0.023877	39.657
	45142.3056	0.213179	536.9994	0.009346	12.118
44°21'	612649.9099	30.863369	2479.1952	0.023890	39.697
	45155.0963	0.213364	537.5601	0.009360	12.140
44°22'	614501.7120	30.863459	2480.6286	0.023904	39.737
	45167.8982	0.213549	538.1217	0.009374	12.162
44°23'	616353.5195	30.863550	2482.0628	0.023917	39.776
	45180.7111	0.213735	538.6841	0.009388	12.184
44°24'	618205.3325	30.863640	2483.4979	0.023931	39.816
	45193.5352	0.213920	539.2474	0.009402	12.206
44°25'	620057.1509	30.863731	2484.9337	0.023945	39.856
	45206.3704	0.214106	539.8115	0.009416	12.229
44°26'	621908.9748	30.863821	2486.3704	0.023958	39.896
	45219.2167	0.214292	540.3765	0.009430	12.251
44°27'	623760.8040	30.863912	2487.8079	0.023972	39.936
	45232.0743	0.214478	540.9423	0.009444	12.273
44°28'	625612.6387	30.864002	2489.2462	0.023985	39.976
	45244.9429	0.214664	541.5089	0.009458	12.295
44°29'	627464.4789	30.864092	2490.6853	0.023999	40.016
	45257.8228	0.214851	542.0764	0.009472	12.318
44°30'	629316.3244	30.864183	2492.1253	0.024013	40.056
	45270.7138	0.215037	542.6447	0.009486	12.340
44°31'	631168.1754	30.864273	2493.5660	0.024026	40.096
	45283.6161	0.215224	543.2139	0.009500	12.362
44°32'	633020.0318	30.864364	2495.0076	0.024040	40.136
	45296.5295	0.215412	543.7839	0.009515	12.385
44°33'	634871.8936	30.864454	2496.4500	0.024054	40.177
	45309.4542	0.215599	544.3547	0.009529	12.407
44°34'	636723.7608	30.864545	2497.8932	0.024067	40.217
	45322.3902	0.215786	544.9265	0.009543	12.430
44°35'	638575.6335	30.864635	2499.3372	0.024081	40.257
	45335.3373	0.215974	545.4991	0.009557	12.453
44°36'	640427.5116	30.864725	2500.7821	0.024095	40.298
	45348.2958	0.216162	546.0725	0.009572	12.475
44°37'	642279.3951	30.864816	2502.2278	0.024108	40.338
	45361.2655	0.216350	546.6468	0.009586	12.498
44°38'	644131.2841	30.864906	2503.6743	0.024122	40.379
	45374.2465	0.216538	547.2219	0.009600	12.521
44°39'	645983.1785	30.864997	2505.1216	0.024136	40.419
	45387.2388	0.216727	547.7979	0.009615	12.544

44°40'	647835.0783	30.865087	2506.5697	0.024150	40.460
	45400.2424	0.216916	548.3748	0.009629	12.566
44°41'	649686.9835	30.865178	2508.0187	0.024163	40.501
	45413.2573	0.217104	548.9526	0.009643	12.589

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°42'	651538.8942	30.865268	2509.4685	0.024177	40.541
	45426.2836	0.217294	549.5312	0.009658	12.612
44°43'	653390.8103	30.865359	2510.9192	0.024191	40.582
	45439.3212	0.217483	550.1106	0.009672	12.635
44°44'	655242.7318	30.865449	2512.3706	0.024205	40.623
	45452.3702	0.217672	550.6910	0.009687	12.658
44°45'	657094.6587	30.865540	2513.8229	0.024219	40.664
	45465.4305	0.217862	551.2722	0.009701	12.682
44°46'	658946.5911	30.865630	2515.2761	0.024233	40.705
	45478.5023	0.218052	551.8542	0.009716	12.705
44°47'	660798.5289	30.865720	2516.7300	0.024247	40.746
	45491.5854	0.218242	552.4372	0.009730	12.728
44°48'	662650.4721	30.865811	2518.1848	0.024261	40.787
	45504.6799	0.218432	553.0210	0.009745	12.751
44°49'	664502.4208	30.865901	2519.6405	0.024274	40.828
	45517.7859	0.218623	553.6057	0.009760	12.775
44°50'	666354.3748	30.865992	2521.0969	0.024288	40.869
	45530.9032	0.218814	554.1913	0.009774	12.798
44°51'	668206.3344	30.866082	2522.5542	0.024302	40.911
	45544.0321	0.219005	554.7778	0.009789	12.821
44°52'	670058.2993	30.866173	2524.0124	0.024316	40.952
	45557.1723	0.219196	555.3651	0.009804	12.845
44°53'	671910.2697	30.866263	2525.4714	0.024330	40.993
	45570.3241	0.219387	555.9533	0.009818	12.868
44°54'	673762.2454	30.866354	2526.9312	0.024344	41.035
	45583.4873	0.219579	556.5424	0.009833	12.892
44°55'	675614.2267	30.866444	2528.3919	0.024358	41.076
	45596.6620	0.219770	557.1324	0.009848	12.916
44°56'	677466.2133	30.866535	2529.8534	0.024372	41.118
	45609.8482	0.219962	557.7233	0.009863	12.939
44°57'	679318.2054	30.866625	2531.3157	0.024387	41.159
	45623.0459	0.220154	558.3151	0.009878	12.963
44°58'	681170.2029	30.866715	2532.7789	0.024401	41.201
	45636.2552	0.220347	558.9078	0.009893	12.987
44°59'	683022.2058	30.866806	2534.2430	0.024415	41.242
	45649.4760	0.220539	559.5013	0.009908	13.011
45° 0'	684874.2142	30.866896	2535.7078	0.024429	41.284
	45662.7084	0.220732	560.0958	0.009922	13.035
45° 1'	686726.2280	30.866987	2537.1736	0.024443	41.326
	45675.9523	0.220925	560.6911	0.009937	13.059

45° 2'	688578.2472	30.867077	2538.6401	0.024457	41.368
	45689.2078	0.221118	561.2874	0.009952	13.083
45° 3'	690430.2718	30.867168	2540.1076	0.024471	41.410
	45702.4749	0.221311	561.8845	0.009967	13.107

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

NEW YORK Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45° 4'	692282.3019	30.867258	2541.5758	0.024485	41.452
	45715.7536	0.221505	562.4825	0.009982	13.131
45° 5'	694134.3374	30.867349	2543.0450	0.024500	41.494
	45729.0439	0.221699	563.0815	0.009998	13.155
45° 6'	695986.3783	30.867439	2544.5149	0.024514	41.536
	45742.3458	0.221893	563.6813	0.010013	13.179
45° 7'	697838.4246	30.867530	2545.9858	0.024528	41.578
	45755.6594	0.222087	564.2821	0.010028	13.204
45° 8'	699690.4764	30.867620	2547.4575	0.024542	41.620
	45768.9846	0.222281	564.8838	0.010043	13.228
45° 9'	701542.5336	30.867711	2548.9300	0.024557	41.662
	45782.3215	0.222476	565.4863	0.010058	13.252
45°10'	703394.5963	30.867801	2550.4034	0.024571	41.704
	45795.6700	0.222671	566.0898	0.010073	13.277
45°11'	705246.6643	30.867892	2551.8776	0.024585	41.747
	45809.0303	0.222866	566.6942	0.010089	13.301
45°12'	707098.7378	30.867982	2553.3528	0.024599	41.789
	45822.4022	0.223061	567.2995	0.010104	13.326
45°13'	708950.8167	30.868072	2554.8287	0.024614	41.832
	45835.7859	0.223257	567.9058	0.010119	13.350
45°14'	710802.9011	30.868163	2556.3056	0.024628	41.874
	45849.1813	0.223452	568.5129	0.010134	13.375
45°15'	712654.9909	30.868253	2557.7832	0.024643	41.917
	45862.5885	0.223648	569.1210	0.010150	13.400
45°16'	714507.0861	30.868344	2559.2618	0.024657	41.959
	45876.0074	0.223844	569.7299	0.010165	13.425
45°17'	716359.1867	30.868434	2560.7412	0.024671	42.002
	45889.4380	0.224041	570.3399	0.010181	13.449
45°18'	718211.2928	30.868525	2562.2215	0.024686	42.045
	45902.8804	0.224237	570.9507	0.010196	13.474
45°19'	720063.4043	30.868615	2563.7026	0.024700	42.087
	45916.3347	0.224434	571.5624	0.010211	13.499
45°20'	721915.5212	30.868706	2565.1846	0.024715	42.130
	45929.8007	0.224631	572.1751	0.010227	13.524

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
38°50'	0.0000	30.833711	6270.5711	0.037761	3.018	
			26000.8121	0.257714	349.371	0.012311
38°51'	1850.0227	30.833799	6272.8367	0.037752	3.017	
			26016.2749	0.257834	349.743	0.012311
38°52'	3700.0506	30.833888	6275.1019	0.037744	3.017	
			26031.7450	0.257955	350.115	0.012311
38°53'	5550.0839	30.833976	6277.3665	0.037735	3.017	
			26047.2222	0.258075	350.488	0.012311
38°54'	7400.1225	30.834064	6279.6306	0.037726	3.016	
			26062.7068	0.258196	350.861	0.012311
38°55'	9250.1663	30.834152	6281.8941	0.037717	3.016	
			26078.1985	0.258317	351.235	0.012311
38°56'	11100.2155	30.834241	6284.1571	0.037708	3.016	
			26093.6976	0.258438	351.609	0.012311
38°57'	12950.2699	30.834329	6286.4196	0.037699	3.015	
			26109.2039	0.258559	351.983	0.012311
38°58'	14800.3297	30.834417	6288.6816	0.037690	3.015	
			26124.7174	0.258681	352.358	0.012311
38°59'	16650.3947	30.834506	6290.9430	0.037682	3.015	
			26140.2383	0.258802	352.734	0.012311
39° 0'	18500.4650	30.834594	6293.2039	0.037673	3.014	
			26155.7664	0.258924	353.110	0.012311
39° 1'	20350.5407	30.834682	6295.4643	0.037664	3.014	
			26171.3018	0.259046	353.486	0.012311
39° 2'	22200.6216	30.834771	6297.7241	0.037655	3.014	
			26186.8446	0.259167	353.863	0.012311
39° 3'	24050.7079	30.834859	6299.9834	0.037646	3.013	
			26202.3946	0.259289	354.240	0.012310
39° 4'	25900.7994	30.834947	6302.2422	0.037637	3.013	
			26217.9520	0.259412	354.618	0.012310
39° 5'	27750.8963	30.835036	6304.5004	0.037628	3.013	
			26233.5167	0.259534	354.997	0.012310
39° 6'	29600.9984	30.835124	6306.7581	0.037619	3.012	
			26249.0887	0.259656	355.375	0.012310
39° 7'	31451.1059	30.835213	6309.0152	0.037610	3.012	
			26264.6681	0.259779	355.755	0.012310
39° 8'	33301.2186	30.835301	6311.2719	0.037602	3.011	
			26280.2548	0.259901	356.134	0.012310
39° 9'	35151.3367	30.835390	6313.5280	0.037593	3.011	
			26295.8489	0.260024	356.515	0.012310

39°10'	37001.4601	30.835478	6315.7835	0.037584	3.011	
			26311.4504	0.260147	356.895	0.012310
39°11'	38851.5888	30.835566	6318.0385	0.037575	3.010	
			26327.0592	0.260270	357.277	0.012310

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"

(I)0.0000 -0.0004 -0.0006 -0.0007(XIV)0.0000 -0.0005 -0.0008 -0.0009

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°12'	40701.7227	30.835655	6320.2930	0.037566	3.010	
			26342.6754	0.260393	357.658	0.012310
39°13'	42551.8620	30.835743	6322.5470	0.037557	3.010	
			26358.2990	0.260517	358.040	0.012310
39°14'	44402.0066	30.835832	6324.8004	0.037548	3.009	
			26373.9300	0.260640	358.423	0.012310
39°15'	46252.1566	30.835920	6327.0533	0.037539	3.009	
			26389.5684	0.260764	358.806	0.012310
39°16'	48102.3118	30.836009	6329.3056	0.037530	3.008	
			26405.2142	0.260887	359.190	0.012310
39°17'	49952.4723	30.836097	6331.5574	0.037521	3.008	
			26420.8675	0.261011	359.574	0.012310
39°18'	51802.6382	30.836186	6333.8087	0.037512	3.008	
			26436.5281	0.261135	359.959	0.012310
39°19'	53652.8093	30.836274	6336.0595	0.037503	3.007	
			26452.1962	0.261259	360.344	0.012310
39°20'	55502.9858	30.836363	6338.3097	0.037494	3.007	
			26467.8718	0.261383	360.729	0.012310
39°21'	57353.1676	30.836452	6340.5593	0.037486	3.007	
			26483.5548	0.261508	361.115	0.012310
39°22'	59203.3547	30.836540	6342.8085	0.037477	3.006	
			26499.2453	0.261632	361.502	0.012310
39°23'	61053.5471	30.836629	6345.0571	0.037468	3.006	
			26514.9432	0.261757	361.889	0.012310
39°24'	62903.7448	30.836717	6347.3051	0.037459	3.005	
			26530.6486	0.261882	362.276	0.012310
39°25'	64753.9478	30.836806	6349.5527	0.037450	3.005	
			26546.3615	0.262007	362.664	0.012309
39°26'	66604.1562	30.836895	6351.7996	0.037441	3.005	
			26562.0819	0.262132	363.053	0.012309
39°27'	68454.3699	30.836983	6354.0461	0.037432	3.004	
			26577.8098	0.262257	363.442	0.012309
39°28'	70304.5889	30.837072	6356.2920	0.037423	3.004	
			26593.5452	0.262382	363.831	0.012309
39°29'	72154.8132	30.837161	6358.5374	0.037414	3.003	
			26609.2882	0.262508	364.222	0.012309
39°30'	74005.0428	30.837249	6360.7822	0.037405	3.003	
			26625.0386	0.262633	364.612	0.012309
39°31'	75855.2778	30.837338	6363.0265	0.037396	3.003	
			26640.7966	0.262759	365.003	0.012309

39°32'	77705.5180	30.837427	6365.2703	0.037387	3.002	
			26656.5621	0.262885	365.395	0.012309
39°33'	79555.7636	30.837515	6367.5135	0.037378	3.002	
			26672.3352	0.263011	365.787	0.012309

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0005	-0.0008	-0.0009

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°34'	81406.0145	30.837604	6369.7562	0.037369	3.001	
			26688.1159	0.263137	366.179	0.012309
39°35'	83256.2708	30.837693	6371.9983	0.037360	3.001	
			26703.9041	0.263263	366.572	0.012309
39°36'	85106.5323	30.837781	6374.2399	0.037351	3.001	
			26719.6999	0.263389	366.966	0.012309
39°37'	86956.7992	30.837870	6376.4810	0.037342	3.000	
			26735.5032	0.263516	367.360	0.012309
39°38'	88807.0714	30.837959	6378.7215	0.037333	3.000	
			26751.3142	0.263643	367.754	0.012309
39°39'	90657.3489	30.838048	6380.9615	0.037324	2.999	
			26767.1327	0.263769	368.149	0.012309
39°40'	92507.6318	30.838136	6383.2009	0.037315	2.999	
			26782.9589	0.263896	368.545	0.012309
39°41'	94357.9200	30.838225	6385.4398	0.037306	2.999	
			26798.7927	0.264023	368.941	0.012309
39°42'	96208.2135	30.838314	6387.6782	0.037297	2.998	
			26814.6341	0.264151	369.337	0.012309
39°43'	98058.5123	30.838403	6389.9160	0.037288	2.998	
			26830.4831	0.264278	369.734	0.012309
39°44'	99908.8165	30.838491	6392.1533	0.037279	2.997	
			26846.3398	0.264405	370.132	0.012309
39°45'	101759.1260	30.838580	6394.3900	0.037270	2.997	
			26862.2041	0.264533	370.530	0.012309
39°46'	103609.4408	30.838669	6396.6262	0.037261	2.996	
			26878.0761	0.264661	370.928	0.012308
39°47'	105459.7609	30.838758	6398.8619	0.037252	2.996	
			26893.9558	0.264789	371.327	0.012308
39°48'	107310.0864	30.838847	6401.0970	0.037243	2.996	
			26909.8431	0.264917	371.727	0.012308
39°49'	109160.4172	30.838936	6403.3316	0.037234	2.995	
			26925.7381	0.265045	372.127	0.012308
39°50'	111010.7533	30.839025	6405.5656	0.037225	2.995	
			26941.6408	0.265173	372.528	0.012308
39°51'	112861.0948	30.839113	6407.7991	0.037216	2.994	
			26957.5512	0.265302	372.929	0.012308
39°52'	114711.4416	30.839202	6410.0320	0.037207	2.994	
			26973.4693	0.265430	373.330	0.012308
39°53'	116561.7938	30.839291	6412.2645	0.037198	2.994	
			26989.3951	0.265559	373.733	0.012308

39°54'	118412.1512	30.839380	6414.4963	0.037189	2.993	
			27005.3287	0.265688	374.135	0.012308
39°55'	120262.5140	30.839469	6416.7276	0.037180	2.993	
			27021.2699	0.265817	374.538	0.012308

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV) 0.0000	-0.0005	-0.0009	-0.001

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
39°56'	122112.8822	30.839558	6418.9584	0.037171	2.992	
			27037.2189	0.265946	374.942	0.012308
39°57'	123963.2556	30.839647	6421.1887	0.037162	2.992	
			27053.1757	0.266075	375.346	0.012308
39°58'	125813.6345	30.839736	6423.4183	0.037152	2.991	
			27069.1402	0.266205	375.751	0.012308
39°59'	127664.0186	30.839825	6425.6475	0.037143	2.991	
			27085.1125	0.266334	376.156	0.012308
40° 0'	129514.4081	30.839914	6427.8761	0.037134	2.990	
			27101.0926	0.266464	376.562	0.012308
40° 1'	131364.8029	30.840003	6430.1042	0.037125	2.990	
			27117.0804	0.266594	376.969	0.012308
40° 2'	133215.2031	30.840092	6432.3317	0.037116	2.990	
			27133.0760	0.266724	377.375	0.012308
40° 3'	135065.6086	30.840181	6434.5586	0.037107	2.989	
			27149.0795	0.266854	377.783	0.012308
40° 4'	136916.0194	30.840270	6436.7851	0.037098	2.989	
			27165.0907	0.266984	378.191	0.012308
40° 5'	138766.4356	30.840359	6439.0110	0.037089	2.988	
			27181.1097	0.267115	378.599	0.012308
40° 6'	140616.8571	30.840448	6441.2363	0.037080	2.988	
			27197.1366	0.267245	379.008	0.012308
40° 7'	142467.2839	30.840537	6443.4611	0.037071	2.987	
			27213.1713	0.267376	379.418	0.012307
40° 8'	144317.7161	30.840626	6445.6853	0.037062	2.987	
			27229.2139	0.267507	379.828	0.012307
40° 9'	146168.1537	30.840715	6447.9090	0.037053	2.986	
			27245.2643	0.267638	380.238	0.012307
40°10'	148018.5966	30.840804	6450.1322	0.037044	2.986	
			27261.3225	0.267769	380.649	0.012307
40°11'	149869.0448	30.840893	6452.3548	0.037034	2.986	
			27277.3887	0.267900	381.061	0.012307
40°12'	151719.4984	30.840982	6454.5769	0.037025	2.985	
			27293.4627	0.268031	381.473	0.012307
40°13'	153569.9573	30.841071	6456.7984	0.037016	2.985	
			27309.5445	0.268163	381.886	0.012307
40°14'	155420.4215	30.841160	6459.0194	0.037007	2.984	
			27325.6343	0.268295	382.299	0.012307
40°15'	157270.8912	30.841249	6461.2398	0.036998	2.984	
			27341.7320	0.268426	382.713	0.012307

40°16'	159121.3661	30.841338	6463.4597	0.036989	2.983	
			27357.8376	0.268558	383.127	0.012307
40°17'	160971.8464	30.841427	6465.6790	0.036980	2.983	
			27373.9511	0.268691	383.542	0.012307

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV) 0.0000	-0.0006	-0.0009	-0.001

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°18'	162822.3321	30.841517	6467.8978	0.036971	2.982	
			27390.0725	0.268823	383.957	0.012307
40°19'	164672.8230	30.841606	6470.1160	0.036962	2.982	
			27406.2019	0.268955	384.373	0.012307
40°20'	166523.3194	30.841695	6472.3337	0.036952	2.981	
			27422.3392	0.269088	384.789	0.012307
40°21'	168373.8211	30.841784	6474.5509	0.036943	2.981	
			27438.4845	0.269220	385.206	0.012307
40°22'	170224.3281	30.841873	6476.7675	0.036934	2.980	
			27454.6377	0.269353	385.624	0.012307
40°23'	172074.8405	30.841962	6478.9835	0.036925	2.980	
			27470.7989	0.269486	386.042	0.012307
40°24'	173925.3582	30.842052	6481.1990	0.036916	2.979	
			27486.9680	0.269619	386.460	0.012307
40°25'	175775.8813	30.842141	6483.4140	0.036907	2.979	
			27503.1452	0.269753	386.880	0.012307
40°26'	177626.4098	30.842230	6485.6284	0.036898	2.979	
			27519.3304	0.269886	387.299	0.012307
40°27'	179476.9436	30.842319	6487.8422	0.036888	2.978	
			27535.5235	0.270020	387.720	0.012307
40°28'	181327.4827	30.842408	6490.0555	0.036879	2.978	
			27551.7247	0.270153	388.140	0.012306
40°29'	183178.0272	30.842498	6492.2683	0.036870	2.977	
			27567.9339	0.270287	388.562	0.012306
40°30'	185028.5771	30.842587	6494.4805	0.036861	2.977	
			27584.1511	0.270421	388.984	0.012306
40°31'	186879.1323	30.842676	6496.6921	0.036852	2.976	
			27600.3764	0.270555	389.406	0.012306
40°32'	188729.6928	30.842765	6498.9032	0.036843	2.976	
			27616.6097	0.270690	389.829	0.012306
40°33'	190580.2588	30.842855	6501.1138	0.036833	2.975	
			27632.8511	0.270824	390.252	0.012306
40°34'	192430.8300	30.842944	6503.3238	0.036824	2.975	
			27649.1005	0.270959	390.677	0.012306
40°35'	194281.4067	30.843033	6505.5333	0.036815	2.974	
			27665.3580	0.271093	391.101	0.012306
40°36'	196131.9886	30.843122	6507.7422	0.036806	2.974	
			27681.6236	0.271228	391.526	0.012306
40°37'	197982.5760	30.843212	6509.9505	0.036797	2.973	
			27697.8973	0.271363	391.952	0.012306

40°38'	199833.1687	30.843301	6512.1583	0.036788	2.973	
			27714.1791	0.271498	392.378	0.012306
40°39'	201683.7667	30.843390	6514.3656	0.036778	2.972	
			27730.4690	0.271634	392.805	0.012306

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
40°40'	203534.3702	30.843480	6516.5723	0.036769	2.972	
			27746.7670	0.271769	393.233	0.012306
40°41'	205384.9789	30.843569	6518.7784	0.036760	2.971	
			27763.0731	0.271905	393.661	0.012306
40°42'	207235.5931	30.843658	6520.9840	0.036751	2.971	
			27779.3874	0.272040	394.089	0.012306
40°43'	209086.2126	30.843748	6523.1891	0.036742	2.970	
			27795.7098	0.272176	394.518	0.012306
40°44'	210936.8374	30.843837	6525.3936	0.036732	2.970	
			27812.0404	0.272312	394.948	0.012306
40°45'	212787.4676	30.843926	6527.5975	0.036723	2.969	
			27828.3792	0.272449	395.378	0.012306
40°46'	214638.1032	30.844016	6529.8009	0.036714	2.969	
			27844.7261	0.272585	395.809	0.012306
40°47'	216488.7441	30.844105	6532.0038	0.036705	2.968	
			27861.0812	0.272721	396.241	0.012306
40°48'	218339.3904	30.844194	6534.2060	0.036696	2.968	
			27877.4445	0.272858	396.672	0.012306
40°49'	220190.0421	30.844284	6536.4078	0.036686	2.967	
			27893.8160	0.272995	397.105	0.012305
40°50'	222040.6991	30.844373	6538.6090	0.036677	2.967	
			27910.1956	0.273132	397.538	0.012305
40°51'	223891.3615	30.844463	6540.8096	0.036668	2.966	
			27926.5836	0.273269	397.972	0.012305
40°52'	225742.0293	30.844552	6543.0097	0.036659	2.966	
			27942.9797	0.273406	398.406	0.012305
40°53'	227592.7024	30.844641	6545.2092	0.036649	2.965	
			27959.3841	0.273544	398.841	0.012305
40°54'	229443.3809	30.844731	6547.4081	0.036640	2.965	
			27975.7967	0.273681	399.276	0.012305
40°55'	231294.0648	30.844820	6549.6065	0.036631	2.964	
			27992.2175	0.273819	399.712	0.012305
40°56'	233144.7540	30.844910	6551.8044	0.036622	2.964	
			28008.6467	0.273957	400.148	0.012305
40°57'	234995.4486	30.844999	6554.0017	0.036612	2.963	
			28025.0841	0.274095	400.586	0.012305
40°58'	236846.1485	30.845089	6556.1985	0.036603	2.963	
			28041.5297	0.274233	401.023	0.012305
40°59'	238696.8538	30.845178	6558.3947	0.036594	2.962	
			28057.9837	0.274371	401.461	0.012305

41° 0'	240547.5645	30.845268	6560.5903	0.036585	2.962	
			28074.4460	0.274510	401.900	0.012305
41° 1'	242398.2806	30.845357	6562.7854	0.036575	2.961	
			28090.9165	0.274648	402.340	0.012305

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.0009	-0.0010

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41° 2'	244249.0020	30.845447	6564.9799	0.036566	2.960	
			28107.3954	0.274787	402.780	0.012305
41° 3'	246099.7288	30.845536	6567.1739	0.036557	2.960	
			28123.8827	0.274926	403.220	0.012305
41° 4'	247950.4610	30.845626	6569.3673	0.036548	2.959	
			28140.3782	0.275065	403.661	0.012305
41° 5'	249801.1985	30.845715	6571.5602	0.036538	2.959	
			28156.8821	0.275204	404.103	0.012305
41° 6'	251651.9414	30.845805	6573.7525	0.036529	2.958	
			28173.3943	0.275343	404.545	0.012305
41° 7'	253502.6897	30.845894	6575.9442	0.036520	2.958	
			28189.9149	0.275483	404.988	0.012305
41° 8'	255353.4434	30.845984	6578.1354	0.036511	2.957	
			28206.4439	0.275623	405.432	0.012305
41° 9'	257204.2024	30.846073	6580.3260	0.036501	2.957	
			28222.9813	0.275762	405.876	0.012305
41°10'	259054.9668	30.846163	6582.5161	0.036492	2.956	
			28239.5270	0.275902	406.320	0.012304
41°11'	260905.7366	30.846252	6584.7056	0.036483	2.956	
			28256.0812	0.276043	406.766	0.012304
41°12'	262756.5117	30.846342	6586.8946	0.036473	2.955	
			28272.6437	0.276183	407.212	0.012304
41°13'	264607.2922	30.846432	6589.0830	0.036464	2.955	
			28289.2147	0.276323	407.658	0.012304
41°14'	266458.0781	30.846521	6591.2709	0.036455	2.954	
			28305.7941	0.276464	408.105	0.012304
41°15'	268308.8694	30.846611	6593.4582	0.036446	2.954	
			28322.3819	0.276605	408.553	0.012304
41°16'	270159.6660	30.846700	6595.6449	0.036436	2.953	
			28338.9782	0.276746	409.001	0.012304
41°17'	272010.4681	30.846790	6597.8311	0.036427	2.952	
			28355.5830	0.276887	409.450	0.012304
41°18'	273861.2755	30.846880	6600.0167	0.036418	2.952	
			28372.1962	0.277028	409.899	0.012304
41°19'	275712.0882	30.846969	6602.2017	0.036408	2.951	
			28388.8178	0.277169	410.349	0.012304
41°20'	277562.9064	30.847059	6604.3862	0.036399	2.951	
			28405.4480	0.277311	410.800	0.012304
41°21'	279413.7299	30.847148	6606.5702	0.036390	2.950	
			28422.0866	0.277452	411.251	0.012304

41°22'	281264.5588	30.847238	6608.7536	0.036380	2.950	
			28438.7338	0.277594	411.703	0.012304
41°23'	283115.3931	30.847328	6610.9364	0.036371	2.949	
			28455.3894	0.277736	412.155	0.012304

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°24'	284966.2328	30.847417	6613.1187	0.036362	2.949	
			28472.0536	0.277878	412.608	0.012304
41°25'	286817.0778	30.847507	6615.3004	0.036352	2.948	
			28488.7263	0.278021	413.062	0.012304
41°26'	288667.9282	30.847597	6617.4815	0.036343	2.947	
			28505.4075	0.278163	413.516	0.012304
41°27'	290518.7840	30.847686	6619.6621	0.036334	2.947	
			28522.0973	0.278306	413.971	0.012304
41°28'	292369.6452	30.847776	6621.8421	0.036324	2.946	
			28538.7957	0.278449	414.426	0.012304
41°29'	294220.5118	30.847866	6624.0216	0.036315	2.946	
			28555.5026	0.278592	414.882	0.012304
41°30'	296071.3837	30.847955	6626.2005	0.036306	2.945	
			28572.2181	0.278735	415.339	0.012304
41°31'	297922.2611	30.848045	6628.3788	0.036296	2.945	
			28588.9422	0.278878	415.796	0.012303
41°32'	299773.1438	30.848135	6630.5566	0.036287	2.944	
			28605.6748	0.279021	416.254	0.012303
41°33'	301624.0319	30.848225	6632.7338	0.036278	2.944	
			28622.4161	0.279165	416.712	0.012303
41°34'	303474.9254	30.848314	6634.9105	0.036268	2.943	
			28639.1660	0.279309	417.171	0.012303
41°35'	305325.8242	30.848404	6637.0866	0.036259	2.942	
			28655.9245	0.279452	417.631	0.012303
41°36'	307176.7285	30.848494	6639.2621	0.036250	2.942	
			28672.6917	0.279597	418.091	0.012303
41°37'	309027.6381	30.848584	6641.4371	0.036240	2.941	
			28689.4675	0.279741	418.552	0.012303
41°38'	310878.5531	30.848673	6643.6115	0.036231	2.941	
			28706.2519	0.279885	419.014	0.012303
41°39'	312729.4735	30.848763	6645.7854	0.036221	2.940	
			28723.0450	0.280030	419.476	0.012303
41°40'	314580.3993	30.848853	6647.9587	0.036212	2.939	
			28739.8468	0.280174	419.939	0.012303
41°41'	316431.3305	30.848943	6650.1314	0.036203	2.939	
			28756.6572	0.280319	420.402	0.012303
41°42'	318282.2670	30.849032	6652.3035	0.036193	2.938	
			28773.4764	0.280464	420.866	0.012303
41°43'	320133.2090	30.849122	6654.4751	0.036184	2.938	
			28790.3042	0.280609	421.331	0.012303

41°44'	321984.1563	30.849212	6656.6462	0.036175	2.937	
			28807.1408	0.280755	421.796	0.012303
41°45'	323835.1090	30.849302	6658.8167	0.036165	2.937	
			28823.9861	0.280900	422.262	0.012303

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV) 0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°46'	325686.0671	30.849392	6660.9866	0.036156	2.936	
			28840.8401	0.281046	422.728	0.012303
41°47'	327537.0306	30.849481	6663.1559	0.036146	2.935	
			28857.7028	0.281192	423.196	0.012303
41°48'	329387.9995	30.849571	6665.3247	0.036137	2.935	
			28874.5743	0.281338	423.663	0.012303
41°49'	331238.9738	30.849661	6667.4929	0.036128	2.934	
			28891.4546	0.281484	424.132	0.012303
41°50'	333089.9534	30.849751	6669.6606	0.036118	2.934	
			28908.3436	0.281630	424.601	0.012303
41°51'	334940.9385	30.849841	6671.8277	0.036109	2.933	
			28925.2414	0.281776	425.071	0.012303
41°52'	336791.9289	30.849931	6673.9942	0.036099	2.932	
			28942.1480	0.281923	425.541	0.012302
41°53'	338642.9247	30.850020	6676.1602	0.036090	2.932	
			28959.0633	0.282070	426.012	0.012302
41°54'	340493.9260	30.850110	6678.3256	0.036081	2.931	
			28975.9875	0.282217	426.483	0.012302
41°55'	342344.9326	30.850200	6680.4904	0.036071	2.931	
			28992.9205	0.282364	426.956	0.012302
41°56'	344195.9446	30.850290	6682.6547	0.036062	2.930	
			29009.8624	0.282511	427.428	0.012302
41°57'	346046.9620	30.850380	6684.8184	0.036052	2.929	
			29026.8130	0.282659	427.902	0.012302
41°58'	347897.9848	30.850470	6686.9815	0.036043	2.929	
			29043.7725	0.282806	428.376	0.012302
41°59'	349749.0129	30.850560	6689.1441	0.036033	2.928	
			29060.7409	0.282954	428.851	0.012302
42° 0'	351600.0465	30.850649	6691.3061	0.036024	2.928	
			29077.7182	0.283102	429.326	0.012302
42° 1'	353451.0855	30.850739	6693.4675	0.036015	2.927	
			29094.7043	0.283250	429.802	0.012302
42° 2'	355302.1298	30.850829	6695.6284	0.036005	2.926	
			29111.6993	0.283398	430.279	0.012302
42° 3'	357153.1796	30.850919	6697.7887	0.035996	2.926	
			29128.7031	0.283547	430.756	0.012302
42° 4'	359004.2347	30.851009	6699.9484	0.035986	2.925	
			29145.7159	0.283695	431.234	0.012302
42° 5'	360855.2953	30.851099	6702.1076	0.035977	2.925	
			29162.7377	0.283844	431.713	0.012302

42° 6'	362706.3612	30.851189	6704.2662	0.035967	2.924	
			29179.7683	0.283993	432.192	0.012302
42° 7'	364557.4326	30.851279	6706.4242	0.035958	2.923	
			29196.8079	0.284142	432.672	0.012302

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42° 8'	366408.5093	30.851369	6708.5817	0.035948	2.923	
			29213.8564	0.284291	433.153	0.012302
42° 9'	368259.5914	30.851459	6710.7386	0.035939	2.922	
			29230.9139	0.284441	433.634	0.012302
42°10'	370110.6790	30.851549	6712.8949	0.035929	2.922	
			29247.9803	0.284590	434.116	0.012302
42°11'	371961.7719	30.851639	6715.0507	0.035920	2.921	
			29265.0557	0.284740	434.598	0.012302
42°12'	373812.8702	30.851729	6717.2059	0.035910	2.920	
			29282.1401	0.284890	435.082	0.012302
42°13'	375663.9739	30.851819	6719.3605	0.035901	2.920	
			29299.2335	0.285040	435.565	0.012301
42°14'	377515.0830	30.851909	6721.5146	0.035892	2.919	
			29316.3359	0.285190	436.050	0.012301
42°15'	379366.1975	30.851998	6723.6681	0.035882	2.918	
			29333.4473	0.285341	436.535	0.012301
42°16'	381217.3174	30.852088	6725.8210	0.035873	2.918	
			29350.5677	0.285491	437.021	0.012301
42°17'	383068.4427	30.852178	6727.9734	0.035863	2.917	
			29367.6972	0.285642	437.507	0.012301
42°18'	384919.5735	30.852268	6730.1251	0.035854	2.917	
			29384.8357	0.285793	437.995	0.012301
42°19'	386770.7096	30.852358	6732.2763	0.035844	2.916	
			29401.9833	0.285944	438.482	0.012301
42°20'	388621.8511	30.852448	6734.4270	0.035835	2.915	
			29419.1399	0.286095	438.971	0.012301
42°21'	390472.9980	30.852538	6736.5771	0.035825	2.915	
			29436.3056	0.286247	439.460	0.012301
42°22'	392324.1503	30.852628	6738.7266	0.035816	2.914	
			29453.4804	0.286398	439.950	0.012301
42°23'	394175.3080	30.852718	6740.8755	0.035806	2.913	
			29470.6643	0.286550	440.440	0.012301
42°24'	396026.4711	30.852809	6743.0239	0.035797	2.913	
			29487.8573	0.286702	440.931	0.012301
42°25'	397877.6396	30.852899	6745.1717	0.035787	2.912	
			29505.0595	0.286854	441.423	0.012301
42°26'	399728.8135	30.852989	6747.3189	0.035778	2.911	
			29522.2707	0.287006	441.916	0.012301
42°27'	401579.9928	30.853079	6749.4655	0.035768	2.911	
			29539.4911	0.287159	442.409	0.012301

42°28'	403431.1776	30.853169	6751.6116	0.035759	2.910	
			29556.7206	0.287311	442.903	0.012301
42°29'	405282.3677	30.853259	6753.7571	0.035749	2.910	
			29573.9593	0.287464	443.397	0.012301

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°30'	407133.5632	30.853349	6755.9021	0.035739	2.909	
			29591.2071	0.287617	443.892	0.012301
42°31'	408984.7641	30.853439	6758.0464	0.035730	2.908	
			29608.4642	0.287770	444.388	0.012301
42°32'	410835.9705	30.853529	6760.1902	0.035720	2.908	
			29625.7304	0.287924	444.885	0.012301
42°33'	412687.1822	30.853619	6762.3335	0.035711	2.907	
			29643.0058	0.288077	445.382	0.012301
42°34'	414538.3993	30.853709	6764.4761	0.035701	2.906	
			29660.2904	0.288231	445.880	0.012300
42°35'	416389.6219	30.853799	6766.6182	0.035692	2.906	
			29677.5842	0.288384	446.379	0.012300
42°36'	418240.8498	30.853889	6768.7597	0.035682	2.905	
			29694.8873	0.288538	446.878	0.012300
42°37'	420092.0832	30.853979	6770.9006	0.035673	2.904	
			29712.1996	0.288693	447.378	0.012300
42°38'	421943.3219	30.854069	6773.0410	0.035663	2.904	
			29729.5212	0.288847	447.879	0.012300
42°39'	423794.5661	30.854159	6775.1808	0.035654	2.903	
			29746.8520	0.289001	448.380	0.012300
42°40'	425645.8157	30.854250	6777.3200	0.035644	2.902	
			29764.1921	0.289156	448.882	0.012300
42°41'	427497.0706	30.854340	6779.4586	0.035634	2.902	
			29781.5415	0.289311	449.385	0.012300
42°42'	429348.3310	30.854430	6781.5967	0.035625	2.901	
			29798.9001	0.289466	449.888	0.012300
42°43'	431199.5968	30.854520	6783.7342	0.035615	2.900	
			29816.2681	0.289621	450.392	0.012300
42°44'	433050.8680	30.854610	6785.8711	0.035606	2.900	
			29833.6454	0.289777	450.897	0.012300
42°45'	434902.1446	30.854700	6788.0075	0.035596	2.899	
			29851.0320	0.289932	451.402	0.012300
42°46'	436753.4266	30.854790	6790.1432	0.035587	2.898	
			29868.4279	0.290088	451.909	0.012300
42°47'	438604.7140	30.854880	6792.2784	0.035577	2.898	
			29885.8332	0.290244	452.415	0.012300
42°48'	440456.0068	30.854971	6794.4130	0.035567	2.897	
			29903.2478	0.290400	452.923	0.012300
42°49'	442307.3051	30.855061	6796.5471	0.035558	2.896	
			29920.6718	0.290556	453.431	0.012300

42°50'	444158.6087	30.855151	6798.6806	0.035548	2.896	
			29938.1052	0.290713	453.940	0.012300
42°51'	446009.9178	30.855241	6800.8135	0.035539	2.895	
			29955.5479	0.290869	454.450	0.012300

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°52'	447861.2322	30.855331	6802.9458	0.035529	2.894	
			29973.0001	0.291026	454.960	0.012300
42°53'	449712.5521	30.855421	6805.0775	0.035519	2.894	
			29990.4616	0.291183	455.471	0.012300
42°54'	451563.8774	30.855511	6807.2087	0.035510	2.893	
			30007.9326	0.291340	455.983	0.012300
42°55'	453415.2081	30.855602	6809.3393	0.035500	2.892	
			30025.4130	0.291497	456.496	0.012299
42°56'	455266.5442	30.855692	6811.4693	0.035491	2.892	
			30042.9028	0.291655	457.009	0.012299
42°57'	457117.8857	30.855782	6813.5987	0.035481	2.891	
			30060.4021	0.291813	457.523	0.012299
42°58'	458969.2326	30.855872	6815.7276	0.035471	2.890	
			30077.9109	0.291970	458.037	0.012299
42°59'	460820.5849	30.855962	6817.8559	0.035462	2.890	
			30095.4291	0.292128	458.553	0.012299
43° 0'	462671.9427	30.856053	6819.9836	0.035452	2.889	
			30112.9568	0.292287	459.069	0.012299
43° 1'	464523.3058	30.856143	6822.1107	0.035443	2.888	
			30130.4940	0.292445	459.586	0.012299
43° 2'	466374.6744	30.856233	6824.2373	0.035433	2.888	
			30148.0407	0.292604	460.103	0.012299
43° 3'	468226.0484	30.856323	6826.3633	0.035423	2.887	
			30165.5969	0.292762	460.621	0.012299
43° 4'	470077.4278	30.856413	6828.4887	0.035414	2.886	
			30183.1627	0.292921	461.140	0.012299
43° 5'	471928.8126	30.856504	6830.6135	0.035404	2.886	
			30200.7379	0.293080	461.660	0.012299
43° 6'	473780.2028	30.856594	6832.7377	0.035394	2.885	
			30218.3227	0.293240	462.180	0.012299
43° 7'	475631.5984	30.856684	6834.8614	0.035385	2.884	
			30235.9171	0.293399	462.701	0.012299
43° 8'	477482.9995	30.856774	6836.9845	0.035375	2.884	
			30253.5211	0.293559	463.223	0.012299
43° 9'	479334.4059	30.856864	6839.1070	0.035366	2.883	
			30271.1346	0.293718	463.746	0.012299
43°10'	481185.8178	30.856955	6841.2289	0.035356	2.882	
			30288.7577	0.293878	464.269	0.012299
43°11'	483037.2351	30.857045	6843.3503	0.035346	2.881	
			30306.3904	0.294039	464.793	0.012299

43°12'	484888.6578	30.857135	6845.4711	0.035337	2.881	
			30324.0327	0.294199	465.318	0.012299
43°13'	486740.0859	30.857225	6847.5913	0.035327	2.880	
			30341.6847	0.294360	465.843	0.012299

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°14'	488591.5194	30.857316	6849.7109	0.035317	2.879	
			30359.3462	0.294520	466.369	0.012299
43°15'	490442.9583	30.857406	6851.8299	0.035308	2.879	
			30377.0174	0.294681	466.896	0.012298
43°16'	492294.4027	30.857496	6853.9484	0.035298	2.878	
			30394.6983	0.294842	467.424	0.012298
43°17'	494145.8525	30.857586	6856.0662	0.035288	2.877	
			30412.3889	0.295004	467.952	0.012298
43°18'	495997.3076	30.857677	6858.1835	0.035279	2.877	
			30430.0891	0.295165	468.481	0.012298
43°19'	497848.7682	30.857767	6860.3002	0.035269	2.876	
			30447.7990	0.295327	469.011	0.012298
43°20'	499700.2343	30.857857	6862.4164	0.035259	2.875	
			30465.5186	0.295488	469.542	0.012298
43°21'	501551.7057	30.857947	6864.5319	0.035250	2.874	
			30483.2479	0.295650	470.073	0.012298
43°22'	503403.1825	30.858038	6866.6469	0.035240	2.874	
			30500.9869	0.295813	470.605	0.012298
43°23'	505254.6648	30.858128	6868.7613	0.035230	2.873	
			30518.7357	0.295975	471.138	0.012298
43°24'	507106.1525	30.858218	6870.8751	0.035220	2.872	
			30536.4942	0.296138	471.671	0.012298
43°25'	508957.6456	30.858309	6872.9883	0.035211	2.872	
			30554.2624	0.296300	472.206	0.012298
43°26'	510809.1441	30.858399	6875.1010	0.035201	2.871	
			30572.0404	0.296463	472.741	0.012298
43°27'	512660.6480	30.858489	6877.2131	0.035191	2.870	
			30589.8282	0.296626	473.277	0.012298
43°28'	514512.1574	30.858579	6879.3245	0.035182	2.869	
			30607.6258	0.296790	473.813	0.012298
43°29'	516363.6722	30.858670	6881.4354	0.035172	2.869	
			30625.4332	0.296953	474.351	0.012298
43°30'	518215.1923	30.858760	6883.5458	0.035162	2.868	
			30643.2504	0.297117	474.889	0.012298
43°31'	520066.7179	30.858850	6885.6555	0.035153	2.867	
			30661.0774	0.297281	475.427	0.012298
43°32'	521918.2490	30.858941	6887.7646	0.035143	2.867	
			30678.9142	0.297445	475.967	0.012298
43°33'	523769.7854	30.859031	6889.8732	0.035133	2.866	
			30696.7609	0.297609	476.507	0.012298

43°34'	525621.3273	30.859121	6891.9812	0.035123	2.865	
			30714.6174	0.297773	477.048	0.012298
43°35'	527472.8745	30.859212	6894.0886	0.035114	2.864	
			30732.4838	0.297938	477.590	0.012298

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°36'	529324.4272	30.859302	6896.1954	0.035104	2.864	
			30750.3601	0.298103	478.133	0.012297
43°37'	531175.9854	30.859392	6898.3017	0.035094	2.863	
			30768.2463	0.298268	478.676	0.012297
43°38'	533027.5489	30.859483	6900.4073	0.035085	2.862	
			30786.1423	0.298433	479.220	0.012297
43°39'	534879.1179	30.859573	6902.5124	0.035075	2.861	
			30804.0483	0.298598	479.765	0.012297
43°40'	536730.6922	30.859663	6904.6169	0.035065	2.861	
			30821.9642	0.298764	480.311	0.012297
43°41'	538582.2720	30.859754	6906.7208	0.035055	2.860	
			30839.8900	0.298929	480.857	0.012297
43°42'	540433.8572	30.859844	6908.8241	0.035046	2.859	
			30857.8258	0.299095	481.405	0.012297
43°43'	542285.4479	30.859934	6910.9268	0.035036	2.858	
			30875.7715	0.299262	481.953	0.012297
43°44'	544137.0439	30.860025	6913.0290	0.035026	2.858	
			30893.7272	0.299428	482.501	0.012297
43°45'	545988.6454	30.860115	6915.1306	0.035016	2.857	
			30911.6929	0.299594	483.051	0.012297
43°46'	547840.2523	30.860205	6917.2315	0.035007	2.856	
			30929.6685	0.299761	483.601	0.012297
43°47'	549691.8646	30.860296	6919.3319	0.034997	2.856	
			30947.6542	0.299928	484.152	0.012297
43°48'	551543.4824	30.860386	6921.4317	0.034987	2.855	
			30965.6499	0.300095	484.704	0.012297
43°49'	553395.1055	30.860476	6923.5310	0.034977	2.854	
			30983.6556	0.300262	485.257	0.012297
43°50'	555246.7341	30.860567	6925.6296	0.034968	2.853	
			31001.6713	0.300430	485.810	0.012297
43°51'	557098.3681	30.860657	6927.7276	0.034958	2.853	
			31019.6971	0.300597	486.364	0.012297
43°52'	558950.0075	30.860747	6929.8251	0.034948	2.852	
			31037.7329	0.300765	486.919	0.012297
43°53'	560801.6524	30.860838	6931.9220	0.034938	2.851	
			31055.7788	0.300933	487.475	0.012297
43°54'	562653.3026	30.860928	6934.0183	0.034928	2.850	
			31073.8348	0.301101	488.031	0.012297
43°55'	564504.9583	30.861019	6936.1140	0.034919	2.850	
			31091.9009	0.301270	488.589	0.012297

43°56'	566356.6194	30.861109	6938.2091	0.034909	2.849	
			31109.9770	0.301438	489.147	0.012297
43°57'	568208.2860	30.861199	6940.3036	0.034899	2.848	
			31128.0633	0.301607	489.706	0.012296

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°58'	570059.9579	30.861290	6942.3976	0.034889	2.847	
			31146.1598	0.301776	490.266	0.012296
43°59'	571911.6353	30.861380	6944.4909	0.034879	2.847	
			31164.2663	0.301945	490.826	0.012296
44° 0'	573763.3181	30.861470	6946.5837	0.034870	2.846	
			31182.3830	0.302115	491.387	0.012296
44° 1'	575615.0063	30.861561	6948.6759	0.034860	2.845	
			31200.5099	0.302284	491.949	0.012296
44° 2'	577466.7000	30.861651	6950.7675	0.034850	2.844	
			31218.6470	0.302454	492.512	0.012296
44° 3'	579318.3991	30.861742	6952.8585	0.034840	2.843	
			31236.7942	0.302624	493.076	0.012296
44° 4'	581170.1035	30.861832	6954.9489	0.034830	2.843	
			31254.9516	0.302794	493.640	0.012296
44° 5'	583021.8135	30.861922	6957.0387	0.034821	2.842	
			31273.1193	0.302964	494.206	0.012296
44° 6'	584873.5288	30.862013	6959.1280	0.034811	2.841	
			31291.2971	0.303135	494.772	0.012296
44° 7'	586725.2496	30.862103	6961.2166	0.034801	2.840	
			31309.4852	0.303306	495.339	0.012296
44° 8'	588576.9758	30.862194	6963.3047	0.034791	2.840	
			31327.6836	0.303477	495.906	0.012296
44° 9'	590428.7074	30.862284	6965.3921	0.034781	2.839	
			31345.8922	0.303648	496.475	0.012296
44°10'	592280.4444	30.862374	6967.4790	0.034772	2.838	
			31364.1110	0.303819	497.044	0.012296
44°11'	594132.1869	30.862465	6969.5653	0.034762	2.837	
			31382.3402	0.303991	497.614	0.012296
44°12'	595983.9348	30.862555	6971.6510	0.034752	2.837	
			31400.5796	0.304162	498.185	0.012296
44°13'	597835.6881	30.862646	6973.7361	0.034742	2.836	
			31418.8293	0.304334	498.757	0.012296
44°14'	599687.4468	30.862736	6975.8207	0.034732	2.835	
			31437.0894	0.304506	499.330	0.012296
44°15'	601539.2110	30.862826	6977.9046	0.034722	2.834	
			31455.3597	0.304679	499.903	0.012296
44°16'	603390.9806	30.862917	6979.9879	0.034713	2.833	
			31473.6405	0.304851	500.477	0.012296
44°17'	605242.7556	30.863007	6982.0707	0.034703	2.833	
			31491.9315	0.305024	501.052	0.012296

44°18'	607094.5360	30.863098	6984.1529	0.034693	2.832	
			31510.2330	0.305197	501.628	0.012295
44°19'	608946.3219	30.863188	6986.2344	0.034683	2.831	
			31528.5448	0.305370	502.205	0.012295

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°20'	610798.1131	30.863279	6988.3154	0.034673	2.830	
			31546.8669	0.305543	502.782	0.012295
44°21'	612649.9099	30.863369	6990.3958	0.034663	2.830	
			31565.1995	0.305717	503.361	0.012295
44°22'	614501.7120	30.863459	6992.4756	0.034653	2.829	
			31583.5425	0.305890	503.940	0.012295
44°23'	616353.5195	30.863550	6994.5548	0.034644	2.828	
			31601.8959	0.306064	504.520	0.012295
44°24'	618205.3325	30.863640	6996.6334	0.034634	2.827	
			31620.2598	0.306238	505.101	0.012295
44°25'	620057.1509	30.863731	6998.7114	0.034624	2.826	
			31638.6341	0.306413	505.682	0.012295
44°26'	621908.9748	30.863821	7000.7889	0.034614	2.826	
			31657.0189	0.306587	506.265	0.012295
44°27'	623760.8040	30.863912	7002.8657	0.034604	2.825	
			31675.4141	0.306762	506.848	0.012295
44°28'	625612.6387	30.864002	7004.9419	0.034594	2.824	
			31693.8198	0.306937	507.432	0.012295
44°29'	627464.4789	30.864092	7007.0176	0.034584	2.823	
			31712.2360	0.307112	508.017	0.012295
44°30'	629316.3244	30.864183	7009.0926	0.034574	2.822	
			31730.6627	0.307287	508.603	0.012295
44°31'	631168.1754	30.864273	7011.1671	0.034565	2.822	
			31749.1000	0.307463	509.190	0.012295
44°32'	633020.0318	30.864364	7013.2410	0.034555	2.821	
			31767.5477	0.307638	509.777	0.012295
44°33'	634871.8936	30.864454	7015.3143	0.034545	2.820	
			31786.0060	0.307814	510.366	0.012295
44°34'	636723.7608	30.864545	7017.3869	0.034535	2.819	
			31804.4749	0.307991	510.955	0.012295
44°35'	638575.6335	30.864635	7019.4590	0.034525	2.818	
			31822.9543	0.308167	511.545	0.012295
44°36'	640427.5116	30.864725	7021.5305	0.034515	2.818	
			31841.4443	0.308343	512.136	0.012295
44°37'	642279.3951	30.864816	7023.6014	0.034505	2.817	
			31859.9449	0.308520	512.727	0.012295
44°38'	644131.2841	30.864906	7025.6717	0.034495	2.816	
			31878.4561	0.308697	513.320	0.012295
44°39'	645983.1785	30.864997	7027.7415	0.034485	2.815	
			31896.9780	0.308874	513.914	0.012294

44°40'	647835.0783	30.865087	7029.8106	0.034475	2.814	
			31915.5104	0.309052	514.508	0.012294
44°41'	649686.9835	30.865178	7031.8791	0.034465	2.814	
			31934.0535	0.309229	515.103	0.012294

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°42'	651538.8942	30.865268	7033.9470	0.034456	2.813	
			31952.6073	0.309407	515.699	0.012294
44°43'	653390.8103	30.865359	7036.0144	0.034446	2.812	
			31971.1717	0.309585	516.296	0.012294
44°44'	655242.7318	30.865449	7038.0811	0.034436	2.811	
			31989.7468	0.309763	516.894	0.012294
44°45'	657094.6587	30.865540	7040.1472	0.034426	2.810	
			32008.3326	0.309941	517.492	0.012294
44°46'	658946.5911	30.865630	7042.2128	0.034416	2.810	
			32026.9290	0.310120	518.092	0.012294
44°47'	660798.5289	30.865720	7044.2777	0.034406	2.809	
			32045.5363	0.310299	518.692	0.012294
44°48'	662650.4721	30.865811	7046.3421	0.034396	2.808	
			32064.1542	0.310478	519.293	0.012294
44°49'	664502.4208	30.865901	7048.4059	0.034386	2.807	
			32082.7829	0.310657	519.895	0.012294
44°50'	666354.3748	30.865992	7050.4690	0.034376	2.806	
			32101.4223	0.310837	520.498	0.012294
44°51'	668206.3344	30.866082	7052.5316	0.034366	2.806	
			32120.0725	0.311016	521.102	0.012294
44°52'	670058.2993	30.866173	7054.5936	0.034356	2.805	
			32138.7334	0.311196	521.707	0.012294
44°53'	671910.2697	30.866263	7056.6549	0.034346	2.804	
			32157.4052	0.311376	522.312	0.012294
44°54'	673762.2454	30.866354	7058.7157	0.034336	2.803	
			32176.0878	0.311556	522.919	0.012294
44°55'	675614.2267	30.866444	7060.7759	0.034326	2.802	
			32194.7811	0.311737	523.526	0.012294
44°56'	677466.2133	30.866535	7062.8355	0.034316	2.801	
			32213.4854	0.311917	524.134	0.012294
44°57'	679318.2054	30.866625	7064.8944	0.034306	2.801	
			32232.2004	0.312098	524.744	0.012294
44°58'	681170.2029	30.866715	7066.9528	0.034296	2.800	
			32250.9263	0.312279	525.354	0.012294
44°59'	683022.2058	30.866806	7069.0106	0.034286	2.799	
			32269.6631	0.312461	525.964	0.012294
45° 0'	684874.2142	30.866896	7071.0678	0.034277	2.798	
			32288.4107	0.312642	526.576	0.012293
45° 1'	686726.2280	30.866987	7073.1244	0.034267	2.797	
			32307.1693	0.312824	527.189	0.012293

45° 2'	688578.2472	30.867077	7075.1804	0.034257	2.796		
			32325.9387	0.313006	527.802	0.012293	
45° 3'	690430.2718	30.867168	7077.2358	0.034247	2.796		
			32344.7191	0.313188	528.417	0.012293	

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

NEW YORK Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45° 4'	692282.3019	30.867258	7079.2906	0.034237	2.795	
			32363.5104	0.313371	529.032	0.012293
45° 5'	694134.3374	30.867349	7081.3448	0.034227	2.794	
			32382.3126	0.313553	529.648	0.012293
45° 6'	695986.3783	30.867439	7083.3984	0.034217	2.793	
			32401.1258	0.313736	530.265	0.012293
45° 7'	697838.4246	30.867530	7085.4514	0.034207	2.792	
			32419.9500	0.313919	530.883	0.012293
45° 8'	699690.4764	30.867620	7087.5038	0.034197	2.791	
			32438.7851	0.314102	531.502	0.012293
45° 9'	701542.5336	30.867711	7089.5556	0.034187	2.791	
			32457.6312	0.314286	532.122	0.012293
45°10'	703394.5963	30.867801	7091.6068	0.034177	2.790	
			32476.4884	0.314469	532.743	0.012293
45°11'	705246.6643	30.867892	7093.6574	0.034167	2.789	
			32495.3565	0.314653	533.365	0.012293
45°12'	707098.7378	30.867982	7095.7074	0.034157	2.788	
			32514.2357	0.314837	533.987	0.012293
45°13'	708950.8167	30.868072	7097.7568	0.034147	2.787	
			32533.1260	0.315022	534.611	0.012293
45°14'	710802.9011	30.868163	7099.8056	0.034137	2.786	
			32552.0272	0.315206	535.235	0.012293
45°15'	712654.9909	30.868253	7101.8538	0.034127	2.786	
			32570.9396	0.315391	535.860	0.012293
45°16'	714507.0861	30.868344	7103.9014	0.034117	2.785	
			32589.8631	0.315576	536.486	0.012293
45°17'	716359.1867	30.868434	7105.9483	0.034107	2.784	
			32608.7976	0.315761	537.113	0.012293
45°18'	718211.2928	30.868525	7107.9947	0.034097	2.783	
			32627.7433	0.315946	537.741	0.012293
45°19'	720063.4043	30.868615	7110.0405	0.034086	2.782	
			32646.7001	0.316132	538.370	0.012293
45°20'	721915.5212	30.868706	7112.0857	0.034076	2.781	
			32665.6680	0.316318	539.000	0.012292

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is NORTH CAROLINA

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 33°45' (latitude of grid origin)
λ_{CM} = 79 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 34 20 (southern standard parallel)
ϕ_n = 36 10 (northern standard parallel)
E. = 609601.2200 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.577170255241 = sin(ϕ.)
K = 13178320.6222 m (mapping radius at the equator)
R_b = 9199785.5932 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	35 15 0.00000 79 30 0.00000	9033390.684 m -0 17 18.90646	-0.0050367394 0.9999873155	564102.386 m 166509.492 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	659601.220 m 170000.000 m	50000.000 m 9029785.593 m	9029924.0229 m 0 19 2.12401	35 16 52.5019 78 27 1.1662

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
NORTH CAROLINA

Lat	R (meters)	tab diff.	k
33° 45'	9199785.593	30.81699	1.00021249
33 46	9197936.574	30.81685	1.00020500
33 47	9196087.563	30.81671	1.00019761
33 48	9194238.560	30.81656	1.00019029
33 49	9192389.566	30.81643	1.00018306
33 50	9190540.581	30.81629	1.00017591
33 51	9188691.603	30.81616	1.00016884
33 52	9186842.634	30.81603	1.00016185
33 53	9184993.672	30.81590	1.00015495
33 54	9183144.718	30.81577	1.00014813
33 55	9181295.772	30.81565	1.00014140
33 56	9179446.833	30.81553	1.00013474
33 57	9177597.901	30.81541	1.00012817
33 58	9175748.976	30.81530	1.00012169
33 59	9173900.058	30.81519	1.00011528
34 0	9172051.147	30.81508	1.00010896
34 1	9170202.242	30.81497	1.00010272
34 2	9168353.344	30.81486	1.00009657
34 3	9166504.452	30.81476	1.00009050
34 4	9164655.566	30.81466	1.00008451
34 5	9162806.687	30.81457	1.00007860
34 6	9160957.813	30.81447	1.00007278
34 7	9159108.944	30.81438	1.00006704
34 8	9157260.081	30.81429	1.00006139
34 9	9155411.224	30.81420	1.00005581
34 10	9153562.372	30.81412	1.00005032
34 11	9151713.525	30.81404	1.00004492
34 12	9149864.682	30.81396	1.00003959
34 13	9148015.845	30.81388	1.00003435
34 14	9146167.012	30.81381	1.00002919
34 15	9144318.183	30.81374	1.00002412
34 16	9142469.359	30.81367	1.00001913
34 17	9140620.539	30.81360	1.00001422
34 18	9138771.722	30.81354	1.00000940
34 19	9136922.910	30.81348	1.00000466
34 20	9135074.101	30.81342	1.00000000
34 21	9133225.296	30.81337	0.99999543
34 22	9131376.494	30.81331	0.99999093
34 23	9129527.695	30.81326	0.99998653
34 24	9127678.899	30.81321	0.99998220

Lambert conformal conic projection tables
NORTH CAROLINA

Lat	R (meters)	tab diff.	k
34° 25'	9125830.106	30.81317	0.99997796
34 26	9123981.316	30.81313	0.99997381
34 27	9122132.529	30.81309	0.99996973
34 28	9120283.743	30.81305	0.99996574
34 29	9118434.961	30.81301	0.99996183
34 30	9116586.180	30.81298	0.99995801
34 31	9114737.401	30.81295	0.99995427
34 32	9112888.624	30.81292	0.99995061
34 33	9111039.848	30.81290	0.99994704
34 34	9109191.074	30.81288	0.99994355
34 35	9107342.301	30.81286	0.99994014
34 36	9105493.530	30.81284	0.99993682
34 37	9103644.759	30.81283	0.99993358
34 38	9101795.990	30.81282	0.99993043
34 39	9099947.221	30.81281	0.99992736
34 40	9098098.452	30.81280	0.99992437
34 41	9096249.684	30.81280	0.99992146
34 42	9094400.916	30.81280	0.99991864
34 43	9092552.149	30.81280	0.99991591
34 44	9090703.381	30.81280	0.99991325
34 45	9088854.613	30.81281	0.99991068
34 46	9087005.844	30.81282	0.99990820
34 47	9085157.075	30.81283	0.99990579
34 48	9083308.305	30.81284	0.99990348
34 49	9081459.535	30.81286	0.99990124
34 50	9079610.763	30.81288	0.99989909
34 51	9077761.990	30.81290	0.99989702
34 52	9075913.216	30.81293	0.99989504
34 53	9074064.441	30.81295	0.99989314
34 54	9072215.663	30.81298	0.99989132
34 55	9070366.884	30.81302	0.99988959
34 56	9068518.103	30.81305	0.99988794
34 57	9066669.320	30.81309	0.99988638
34 58	9064820.535	30.81313	0.99988490
34 59	9062971.747	30.81317	0.99988350
35 0	9061122.956	30.81322	0.99988219
35 1	9059274.163	30.81327	0.99988096
35 2	9057425.367	30.81332	0.99987982
35 3	9055576.568	30.81337	0.99987876
35 4	9053727.766	30.81343	0.99987778

Lambert conformal conic projection tables
NORTH CAROLINA

Lat	R (meters)	tab diff.	k
35° 5'	9051878.960	30.81349	0.99987689
35 6	9050030.151	30.81355	0.99987608
35 7	9048181.338	30.81361	0.99987536
35 8	9046332.522	30.81368	0.99987472
35 9	9044483.701	30.81375	0.99987416
35 10	9042634.876	30.81382	0.99987369
35 11	9040786.047	30.81389	0.99987330
35 12	9038937.213	30.81397	0.99987300
35 13	9037088.375	30.81405	0.99987278
35 14	9035239.532	30.81413	0.99987264
35 15	9033390.684	30.81422	0.99987259
35 16	9031541.831	30.81430	0.99987263
35 17	9029692.973	30.81439	0.99987274
35 18	9027844.110	30.81449	0.99987294
35 19	9025995.240	30.81458	0.99987323
35 20	9024146.365	30.81468	0.99987360
35 21	9022297.485	30.81478	0.99987406
35 22	9020448.598	30.81488	0.99987459
35 23	9018599.705	30.81499	0.99987522
35 24	9016750.806	30.81510	0.99987593
35 25	9014901.900	30.81521	0.99987672
35 26	9013052.987	30.81532	0.99987759
35 27	9011204.068	30.81544	0.99987856
35 28	9009355.142	30.81556	0.99987960
35 29	9007506.209	30.81568	0.99988073
35 30	9005657.268	30.81580	0.99988194
35 31	9003808.320	30.81593	0.99988324
35 32	9001959.364	30.81606	0.99988463
35 33	9000110.401	30.81619	0.99988609
35 34	8998261.429	30.81632	0.99988765
35 35	8996412.450	30.81646	0.99988928
35 36	8994563.462	30.81660	0.99989100
35 37	8992714.466	30.81674	0.99989281
35 38	8990865.461	30.81689	0.99989470
35 39	8989016.448	30.81704	0.99989668
35 40	8987167.426	30.81719	0.99989874
35 41	8985318.395	30.81734	0.99990088
35 42	8983469.355	30.81749	0.99990311
35 43	8981620.305	30.81765	0.99990543
35 44	8979771.246	30.81781	0.99990782

Lambert conformal conic projection tables
NORTH CAROLINA

Lat	R	tab diff.	k
35°45′	8977922.177	30.81798	0.99991031
35°46′	8976073.098	30.81814	0.99991288
35°47′	8974224.010	30.81831	0.99991553
35°48′	8972374.911	30.81848	0.99991827
35°49′	8970525.802	30.81866	0.99992109
35°50′	8968676.683	30.81883	0.99992400
35°51′	8966827.553	30.81901	0.99992699
35°52′	8964978.412	30.81919	0.99993007
35°53′	8963129.260	30.81938	0.99993323
35°54′	8961280.097	30.81957	0.99993648
35°55′	8959430.923	30.81976	0.99993981
35°56′	8957581.738	30.81995	0.99994323
35°57′	8955732.541	30.82014	0.99994673
35°58′	8953883.333	30.82034	0.99995032
35°59′	8952034.112	30.82054	0.99995399
36° 0′	8950184.880	30.82074	0.99995775
36° 1′	8948335.635	30.82095	0.99996159
36° 2′	8946486.378	30.82116	0.99996552
36° 3′	8944637.109	30.82137	0.99996953
36° 4′	8942787.826	30.82158	0.99997363
36° 5′	8940938.531	30.82180	0.99997781
36° 6′	8939089.224	30.82202	0.99998208
36° 7′	8937239.903	30.82224	0.99998643
36° 8′	8935390.568	30.82246	0.99999087
36° 9′	8933541.220	30.82269	0.99999539
36°10′	8931691.859	30.82292	1.00000000
36°11′	8929842.484	30.82315	1.00000469
36°12′	8927993.095	30.82339	1.00000947
36°13′	8926143.692	30.82362	1.00001434
36°14′	8924294.274	30.82386	1.00001929
36°15′	8922444.843	30.82411	1.00002432
36°16′	8920595.396	30.82435	1.00002944
36°17′	8918745.935	30.82460	1.00003465
36°18′	8916896.459	30.82485	1.00003994
36°19′	8915046.968	30.82510	1.00004532
36°20′	8913197.462	30.82536	1.00005078
36°21′	8911347.941	30.82562	1.00005633
36°22′	8909498.404	30.82588	1.00006196
36°23′	8907648.851	30.82614	1.00006768
36°24′	8905799.283	30.82641	1.00007349

Lambert conformal conic projection tables
NORTH CAROLINA

Lat	R	tab diff.	k
36°25′	8903949.698	30.82668	1.00007938
36°26′	8902100.098	30.82695	1.00008535
36°27′	8900250.481	30.82722	1.00009141
36°28′	8898400.847	30.82750	1.00009756
36°29′	8896551.197	30.82778	1.00010379
36°30′	8894701.531	30.82806	1.00011011
36°31′	8892851.847	30.82835	1.00011651
36°32′	8891002.146	30.82864	1.00012300
36°33′	8889152.428	30.82893	1.00012958
36°34′	8887302.692	30.82922	1.00013624
36°35′	8885452.939	30.82951	1.00014298
36°36′	8883603.168	30.82981	1.00014982
36°37′	8881753.380	30.83011	1.00015674
36°38′	8879903.573	30.83042	1.00016374
36°39′	8878053.748	30.83072	1.00017083
36°40′	8876203.904	30.83103	1.00017800

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is NORTH DAKOTA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 47° 0' (latitude of grid origin)
λ_{CM} = 100 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 47 26 (southern standard parallel)
ϕ_n = 48 44 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.744133404458 = sin(ϕ.)
K = 11672088.5605 m (mapping radius at the equator)
R_b = 5856720.4592 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	48 5 0.00000 101 0 0.00000	5736274.528 m -0 22 19.44013	-0.0064937434 0.9999789154	562750.105 m 120566.878 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	640000.000 m 130000.000 m	40000.000 m 5726720.459 m	5726860.1535 m 0 24 0.69510	48 10 4.8212 99 57 43.9290

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
NORTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
47° 0'	5856720.459	30.88425	1.00011328
47 1	5854867.404	30.88417	1.00010788
47 2	5853014.354	30.88410	1.00010257
47 3	5851161.308	30.88403	1.00009735
47 4	5849308.266	30.88396	1.00009220
47 5	5847455.228	30.88390	1.00008714
47 6	5845602.194	30.88384	1.00008216
47 7	5843749.164	30.88378	1.00007726
47 8	5841896.137	30.88372	1.00007245
47 9	5840043.114	30.88367	1.00006772
47 10	5838190.094	30.88361	1.00006307
47 11	5836337.077	30.88356	1.00005851
47 12	5834484.063	30.88352	1.00005402
47 13	5832631.052	30.88347	1.00004962
47 14	5830778.044	30.88343	1.00004531
47 15	5828925.038	30.88339	1.00004108
47 16	5827072.034	30.88336	1.00003693
47 17	5825219.033	30.88332	1.00003286
47 18	5823366.033	30.88329	1.00002888
47 19	5821513.036	30.88326	1.00002497
47 20	5819660.040	30.88324	1.00002116
47 21	5817807.046	30.88321	1.00001742
47 22	5815954.053	30.88319	1.00001377
47 23	5814101.062	30.88317	1.00001020
47 24	5812248.072	30.88316	1.00000672
47 25	5810395.082	30.88314	1.00000332
47 26	5808542.094	30.88313	1.00000000
47 27	5806689.106	30.88312	0.99999677
47 28	5804836.119	30.88312	0.99999361
47 29	5802983.132	30.88311	0.99999055
47 30	5801130.145	30.88311	0.99998756
47 31	5799277.158	30.88311	0.99998466
47 32	5797424.171	30.88312	0.99998184
47 33	5795571.184	30.88313	0.99997911
47 34	5793718.196	30.88314	0.99997646
47 35	5791865.208	30.88315	0.99997389
47 36	5790012.219	30.88316	0.99997141
47 37	5788159.230	30.88318	0.99996901
47 38	5786306.239	30.88320	0.99996669
47 39	5784453.247	30.88322	0.99996446

Lambert conformal conic projection tables
NORTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
47° 40'	5782600.253	30.88325	0.99996231
47 41	5780747.259	30.88328	0.99996024
47 42	5778894.262	30.88331	0.99995826
47 43	5777041.264	30.88334	0.99995636
47 44	5775188.264	30.88337	0.99995455
47 45	5773335.261	30.88341	0.99995282
47 46	5771482.256	30.88345	0.99995117
47 47	5769629.249	30.88350	0.99994961
47 48	5767776.240	30.88354	0.99994813
47 49	5765923.227	30.88359	0.99994673
47 50	5764070.212	30.88364	0.99994542
47 51	5762217.193	30.88369	0.99994419
47 52	5760364.172	30.88375	0.99994305
47 53	5758511.147	30.88381	0.99994199
47 54	5756658.118	30.88387	0.99994102
47 55	5754805.086	30.88393	0.99994013
47 56	5752952.050	30.88400	0.99993932
47 57	5751099.010	30.88407	0.99993860
47 58	5749245.966	30.88414	0.99993796
47 59	5747392.917	30.88421	0.99993740
48 0	5745539.865	30.88429	0.99993693
48 1	5743686.807	30.88437	0.99993654
48 2	5741833.745	30.88445	0.99993624
48 3	5739980.678	30.88454	0.99993603
48 4	5738127.605	30.88462	0.99993589
48 5	5736274.528	30.88471	0.99993584
48 6	5734421.445	30.88481	0.99993588
48 7	5732568.357	30.88490	0.99993600
48 8	5730715.262	30.88500	0.99993620
48 9	5728862.163	30.88510	0.99993649
48 10	5727009.057	30.88520	0.99993686
48 11	5725155.944	30.88531	0.99993732
48 12	5723302.826	30.88542	0.99993786
48 13	5721449.701	30.88553	0.99993849
48 14	5719596.569	30.88564	0.99993920
48 15	5717743.431	30.88576	0.99993999
48 16	5715890.286	30.88587	0.99994087
48 17	5714037.133	30.88600	0.99994184
48 18	5712183.973	30.88612	0.99994289
48 19	5710330.806	30.88625	0.99994402

Lambert conformal conic projection tables
NORTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
48° 20'	5708477.631	30.88637	0.99994524
48 21	5706624.449	30.88651	0.99994655
48 22	5704771.259	30.88664	0.99994794
48 23	5702918.060	30.88678	0.99994941
48 24	5701064.854	30.88692	0.99995097
48 25	5699211.639	30.88706	0.99995261
48 26	5697358.415	30.88720	0.99995434
48 27	5695505.183	30.88735	0.99995615
48 28	5693651.942	30.88750	0.99995805
48 29	5691798.692	30.88765	0.99996003
48 30	5689945.433	30.88781	0.99996210
48 31	5688092.164	30.88797	0.99996425
48 32	5686238.887	30.88813	0.99996649
48 33	5684385.599	30.88829	0.99996882
48 34	5682532.302	30.88845	0.99997122
48 35	5680678.995	30.88862	0.99997372
48 36	5678825.677	30.88879	0.99997630
48 37	5676972.350	30.88897	0.99997896
48 38	5675119.012	30.88914	0.99998171
48 39	5673265.663	30.88932	0.99998455
48 40	5671412.304	30.88950	0.99998747
48 41	5669558.934	30.88969	0.99999047
48 42	5667705.552	30.88987	0.99999356
48 43	5665852.160	30.89006	0.99999674
48 44	5663998.756	30.89025	1.00000000
48 45	5662145.341	30.89045	1.00000335
48 46	5660291.914	30.89065	1.00000678
48 47	5658438.475	30.89085	1.00001030
48 48	5656585.025	30.89105	1.00001390
48 49	5654731.562	30.89125	1.00001759
48 50	5652878.087	30.89146	1.00002137
48 51	5651024.599	30.89167	1.00002523
48 52	5649171.099	30.89188	1.00002917
48 53	5647317.586	30.89210	1.00003321
48 54	5645464.060	30.89232	1.00003732
48 55	5643610.521	30.89254	1.00004153
48 56	5641756.968	30.89276	1.00004582
48 57	5639903.402	30.89299	1.00005019
48 58	5638049.823	30.89322	1.00005465
48 59	5636196.230	30.89345	1.00005920

Lambert conformal conic projection tables
NORTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
49° 0'	5634342.623	30.89368	1.00006383
49 1	5632489.002	30.89392	1.00006855
49 2	5630635.367	30.89416	1.00007336
49 3	5628781.717	30.89440	1.00007825
49 4	5626928.053	30.89465	1.00008323
49 5	5625074.374	30.89489	1.00008829
49 6	5623220.681	30.89514	1.00009344
49 7	5621366.972	30.89540	1.00009867
49 8	5619513.248	30.89565	1.00010400
49 9	5617659.509	30.89591	1.00010940
49 10	5615805.755	30.89617	1.00011490
49 11	5613951.984	30.89643	1.00012048
49 12	5612098.198	30.89670	1.00012615
49 13	5610244.396	30.89697	1.00013190
49 14	5608390.578	30.89724	1.00013774
49 15	5606536.744	30.89751	1.00014366
49 16	5604682.893	30.89779	1.00014968
49 17	5602829.025	30.89807	1.00015578
49 18	5600975.141	30.89835	1.00016196
49 19	5599121.240	30.89864	1.00016823
49 20	5597267.322	30.89892	1.00017459

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is NORTH DAKOTA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 45° 40' (latitude of grid origin)
λ_{CM} = 100 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 46 11 (southern standard parallel)
ϕ_n = 47 29 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.729382600558 = $\sin(\phi_o)$
K = 11744429.2917 m (mapping radius at the equator)
R_b = 6122339.5950 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_o$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	46 50 0.00000 101 0 0.00000	5992656.765 m -0 21 52.88868	-0.0063650210 0.9999797430	561856.614 m 129804.223 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	640000.000 m 130000.000 m	40000.000 m 5992339.595 m	5992473.0973 m 0 22 56.83614	46 50 5.9482 99 58 32.3266

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
NORTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
45° 40'	6122339.595	30.87788	1.00014151
45 41	6120486.922	30.87779	1.00013570
45 42	6118634.254	30.87771	1.00012997
45 43	6116781.592	30.87763	1.00012433
45 44	6114928.934	30.87755	1.00011877
45 45	6113076.282	30.87747	1.00011329
45 46	6111223.633	30.87739	1.00010790
45 47	6109370.990	30.87732	1.00010259
45 48	6107518.350	30.87725	1.00009736
45 49	6105665.715	30.87719	1.00009221
45 50	6103813.084	30.87712	1.00008715
45 51	6101960.457	30.87706	1.00008217
45 52	6100107.833	30.87700	1.00007727
45 53	6098255.214	30.87694	1.00007246
45 54	6096402.597	30.87689	1.00006773
45 55	6094549.984	30.87684	1.00006308
45 56	6092697.374	30.87679	1.00005851
45 57	6090844.766	30.87674	1.00005403
45 58	6088992.162	30.87670	1.00004963
45 59	6087139.560	30.87665	1.00004531
46 0	6085286.961	30.87662	1.00004108
46 1	6083434.364	30.87658	1.00003693
46 2	6081581.769	30.87655	1.00003286
46 3	6079729.177	30.87651	1.00002888
46 4	6077876.586	30.87649	1.00002498
46 5	6076023.997	30.87646	1.00002116
46 6	6074171.409	30.87644	1.00001742
46 7	6072318.823	30.87641	1.00001377
46 8	6070466.238	30.87640	1.00001020
46 9	6068613.654	30.87638	1.00000672
46 10	6066761.071	30.87637	1.00000332
46 11	6064908.489	30.87636	1.00000000
46 12	6063055.908	30.87635	0.99999677
46 13	6061203.327	30.87634	0.99999361
46 14	6059350.747	30.87634	0.99999055
46 15	6057498.166	30.87634	0.99998756
46 16	6055645.586	30.87634	0.99998466
46 17	6053793.006	30.87635	0.99998184
46 18	6051940.425	30.87635	0.99997911
46 19	6050087.844	30.87636	0.99997646

Lambert conformal conic projection tables
NORTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
46° 20'	6048235.262	30.87638	0.99997389
46 21	6046382.679	30.87639	0.99997141
46 22	6044530.096	30.87641	0.99996901
46 23	6042677.511	30.87643	0.99996669
46 24	6040824.926	30.87645	0.99996446
46 25	6038972.339	30.87648	0.99996231
46 26	6037119.750	30.87650	0.99996024
46 27	6035267.160	30.87653	0.99995826
46 28	6033414.568	30.87657	0.99995636
46 29	6031561.974	30.87660	0.99995455
46 30	6029709.378	30.87664	0.99995282
46 31	6027856.779	30.87668	0.99995117
46 32	6026004.178	30.87673	0.99994961
46 33	6024151.575	30.87677	0.99994813
46 34	6022298.968	30.87682	0.99994674
46 35	6020446.359	30.87687	0.99994543
46 36	6018593.747	30.87693	0.99994420
46 37	6016741.131	30.87698	0.99994306
46 38	6014888.512	30.87704	0.99994200
46 39	6013035.890	30.87710	0.99994102
46 40	6011183.264	30.87717	0.99994013
46 41	6009330.634	30.87723	0.99993932
46 42	6007478.000	30.87730	0.99993860
46 43	6005625.362	30.87737	0.99993796
46 44	6003772.719	30.87745	0.99993741
46 45	6001920.072	30.87753	0.99993694
46 46	6000067.421	30.87761	0.99993655
46 47	5998214.764	30.87769	0.99993625
46 48	5996362.103	30.87777	0.99993603
46 49	5994509.437	30.87786	0.99993590
46 50	5992656.765	30.87795	0.99993585
46 51	5990804.088	30.87804	0.99993589
46 52	5988951.405	30.87814	0.99993601
46 53	5987098.717	30.87824	0.99993621
46 54	5985246.023	30.87834	0.99993650
46 55	5983393.323	30.87844	0.99993687
46 56	5981540.616	30.87855	0.99993733
46 57	5979687.903	30.87865	0.99993787
46 58	5977835.184	30.87877	0.99993850
46 59	5975982.458	30.87888	0.99993921

Lambert conformal conic projection tables
NORTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
47° 0'	5974129.725	30.87900	0.99994001
47 1	5972276.986	30.87911	0.99994089
47 2	5970424.239	30.87924	0.99994185
47 3	5968571.485	30.87936	0.99994290
47 4	5966718.723	30.87949	0.99994404
47 5	5964865.954	30.87962	0.99994525
47 6	5963013.177	30.87975	0.99994656
47 7	5961160.392	30.87988	0.99994795
47 8	5959307.599	30.88002	0.99994942
47 9	5957454.798	30.88016	0.99995098
47 10	5955601.989	30.88030	0.99995262
47 11	5953749.171	30.88045	0.99995435
47 12	5951896.344	30.88059	0.99995616
47 13	5950043.508	30.88074	0.99995806
47 14	5948190.664	30.88090	0.99996004
47 15	5946337.810	30.88105	0.99996211
47 16	5944484.947	30.88121	0.99996426
47 17	5942632.074	30.88137	0.99996650
47 18	5940779.192	30.88153	0.99996882
47 19	5938926.300	30.88170	0.99997123
47 20	5937073.398	30.88187	0.99997373
47 21	5935220.486	30.88204	0.99997630
47 22	5933367.564	30.88221	0.99997897
47 23	5931514.631	30.88239	0.99998172
47 24	5929661.688	30.88257	0.99998455
47 25	5927808.734	30.88275	0.99998747
47 26	5925955.769	30.88293	0.99999047
47 27	5924102.792	30.88312	0.99999356
47 28	5922249.805	30.88331	0.99999674
47 29	5920396.806	30.88350	1.0000000
47 30	5918543.796	30.88370	1.00000335
47 31	5916690.774	30.88390	1.00000678
47 32	5914837.741	30.88410	1.00001029
47 33	5912984.695	30.88430	1.00001390
47 34	5911131.637	30.88450	1.00001759
47 35	5909278.567	30.88471	1.00002136
47 36	5907425.484	30.88492	1.00002522
47 37	5905572.389	30.88514	1.00002916
47 38	5903719.281	30.88535	1.00003319
47 39	5901866.159	30.88557	1.00003731

Lambert conformal conic projection tables
NORTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
47° 40'	5900013.025	30.88579	1.00004151
47 41	5898159.878	30.88602	1.00004580
47 42	5896306.717	30.88624	1.00005017
47 43	5894453.542	30.88647	1.00005463
47 44	5892600.354	30.88670	1.00005918
47 45	5890747.152	30.88694	1.00006381
47 46	5888893.936	30.88717	1.00006852
47 47	5887040.705	30.88741	1.00007333
47 48	5885187.460	30.88766	1.00007822
47 49	5883334.201	30.88790	1.00008319
47 50	5881480.927	30.88815	1.00008825
47 51	5879627.638	30.88840	1.00009340
47 52	5877774.334	30.88865	1.00009863
47 53	5875921.014	30.88891	1.00010395
47 54	5874067.680	30.88917	1.00010936
47 55	5872214.330	30.88943	1.00011485
47 56	5870360.964	30.88969	1.00012042
47 57	5868507.583	30.88996	1.00012609
47 58	5866654.185	30.89023	1.00013184
47 59	5864800.771	30.89050	1.00013767
48 0	5862947.341	30.89077	1.00014360

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OHIO NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 39° 40' (latitude of grid origin)
λ_{CM} = 82 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 26 (southern standard parallel)
ϕ_n = 41 42 (northern standard parallel)
$E_.$ = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.656950312341 = $\sin(\phi_.)$
K = 12260321.3670 m (mapping radius at the equator)
R_b = 7485451.5983 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 4 0.00000 83 0 0.00000	7329987.322 m -0 19 42.51056	-0.0057329416 0.9999835666	557977.611 m 155584.733 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - $E_.$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 160000.000 m	50000.000 m 7325451.598 m	7325622.2343 m 0 23 27.84224	41 6 21.5082 81 54 17.0035

WARNING: Use sufficient significant digits for trig.functions.

Lambert conformal conic projection tables
OHIO NORTH

Lat	R (meters)	tab diff.	k
39° 40'	7485451.598	30.84836	1.00023491
39 41	7483600.697	30.84823	1.00022793
39 42	7481749.803	30.84811	1.00022104
39 43	7479898.916	30.84799	1.00021424
39 44	7478048.037	30.84787	1.00020751
39 45	7476197.165	30.84776	1.00020087
39 46	7474346.299	30.84765	1.00019431
39 47	7472495.440	30.84754	1.00018783
39 48	7470644.588	30.84743	1.00018144
39 49	7468793.742	30.84732	1.00017513
39 50	7466942.903	30.84722	1.00016890
39 51	7465092.069	30.84712	1.00016276
39 52	7463241.242	30.84703	1.00015670
39 53	7461390.420	30.84693	1.00015072
39 54	7459539.604	30.84684	1.00014482
39 55	7457688.794	30.84675	1.00013901
39 56	7455837.989	30.84667	1.00013328
39 57	7453987.189	30.84658	1.00012763
39 58	7452136.394	30.84650	1.00012206
39 59	7450285.604	30.84642	1.00011658
40 0	7448434.819	30.84634	1.00011118
40 1	7446584.038	30.84627	1.00010587
40 2	7444733.262	30.84620	1.00010063
40 3	7442882.490	30.84613	1.00009548
40 4	7441031.722	30.84607	1.00009042
40 5	7439180.958	30.84600	1.00008543
40 6	7437330.198	30.84594	1.00008053
40 7	7435479.441	30.84588	1.00007571
40 8	7433628.688	30.84583	1.00007098
40 9	7431777.939	30.84577	1.00006633
40 10	7429927.192	30.84572	1.00006176
40 11	7428076.449	30.84568	1.00005728
40 12	7426225.708	30.84563	1.00005287
40 13	7424374.970	30.84559	1.00004856
40 14	7422524.235	30.84555	1.00004432
40 15	7420673.502	30.84551	1.00004017
40 16	7418822.772	30.84547	1.00003610
40 17	7416972.043	30.84544	1.00003212
40 18	7415121.317	30.84541	1.00002821
40 19	7413270.592	30.84538	1.00002440

Lambert conformal conic projection tables
OHIO NORTH

Lat	R (meters)	tab diff.	k
40° 20'	7411419.869	30.84536	1.00002066
40 21	7409569.147	30.84534	1.00001701
40 22	7407718.427	30.84532	1.00001344
40 23	7405867.708	30.84530	1.00000995
40 24	7404016.990	30.84529	1.00000655
40 25	7402166.273	30.84527	1.00000323
40 26	7400315.556	30.84527	1.00000000
40 27	7398464.840	30.84526	0.99999685
40 28	7396614.125	30.84525	0.99999378
40 29	7394763.409	30.84525	0.99999080
40 30	7392912.694	30.84525	0.99998790
40 31	7391061.979	30.84526	0.99998508
40 32	7389211.263	30.84526	0.99998235
40 33	7387360.548	30.84527	0.99997970
40 34	7385509.831	30.84528	0.99997713
40 35	7383659.114	30.84530	0.99997465
40 36	7381808.396	30.84532	0.99997225
40 37	7379957.677	30.84533	0.99996993
40 38	7378106.957	30.84536	0.99996770
40 39	7376256.236	30.84538	0.99996556
40 40	7374405.513	30.84541	0.99996349
40 41	7372554.789	30.84544	0.99996151
40 42	7370704.062	30.84547	0.99995961
40 43	7368853.334	30.84550	0.99995780
40 44	7367002.604	30.84554	0.99995607
40 45	7365151.872	30.84558	0.99995443
40 46	7363301.137	30.84562	0.99995287
40 47	7361450.399	30.84567	0.99995139
40 48	7359599.659	30.84572	0.99995000
40 49	7357748.916	30.84577	0.99994869
40 50	7355898.170	30.84582	0.99994746
40 51	7354047.421	30.84588	0.99994632
40 52	7352196.669	30.84593	0.99994527
40 53	7350345.913	30.84599	0.99994429
40 54	7348495.153	30.84606	0.99994340
40 55	7346644.390	30.84612	0.99994260
40 56	7344793.622	30.84619	0.99994188
40 57	7342942.851	30.84626	0.99994124
40 58	7341092.075	30.84634	0.99994069
40 59	7339241.295	30.84641	0.99994022

Lambert conformal conic projection tables
OHIO NORTH

Lat	R (meters)	tab diff.	k
41° 0'	7337390.510	30.84649	0.99993984
41 1	7335539.720	30.84657	0.99993954
41 2	7333688.926	30.84666	0.99993932
41 3	7331838.127	30.84674	0.99993919
41 4	7329987.322	30.84683	0.99993914
41 5	7328136.512	30.84693	0.99993918
41 6	7326285.696	30.84702	0.99993930
41 7	7324434.875	30.84712	0.99993950
41 8	7322584.048	30.84722	0.99993979
41 9	7320733.215	30.84732	0.99994017
41 10	7318882.376	30.84742	0.99994063
41 11	7317031.531	30.84753	0.99994117
41 12	7315180.679	30.84764	0.99994180
41 13	7313329.820	30.84776	0.99994251
41 14	7311478.955	30.84787	0.99994331
41 15	7309628.083	30.84799	0.99994419
41 16	7307777.203	30.84811	0.99994515
41 17	7305926.317	30.84823	0.99994620
41 18	7304075.423	30.84836	0.99994734
41 19	7302224.521	30.84849	0.99994856
41 20	7300373.612	30.84862	0.99994986
41 21	7298522.695	30.84875	0.99995125
41 22	7296671.770	30.84889	0.99995272
41 23	7294820.837	30.84903	0.99995428
41 24	7292969.895	30.84917	0.99995592
41 25	7291118.945	30.84931	0.99995765
41 26	7289267.986	30.84946	0.99995946
41 27	7287417.018	30.84961	0.99996136
41 28	7285566.042	30.84976	0.99996334
41 29	7283715.056	30.84992	0.99996541
41 30	7281864.061	30.85007	0.99996756
41 31	7280013.057	30.85023	0.99996979
41 32	7278162.043	30.85040	0.99997212
41 33	7276311.019	30.85056	0.99997452
41 34	7274459.985	30.85073	0.99997701
41 35	7272608.941	30.85090	0.99997959
41 36	7270757.887	30.85107	0.99998225
41 37	7268906.823	30.85125	0.99998499
41 38	7267055.748	30.85143	0.99998783
41 39	7265204.662	30.85161	0.99999074

Lambert conformal conic projection tables
OHIO NORTH

Lat	R (meters)	tab diff.	k
41° 40'	7263353.566	30.85179	0.99999374
41 41	7261502.458	30.85198	0.99999683
41 42	7259651.339	30.85217	1.00000000
41 43	7257800.209	30.85236	1.00000326
41 44	7255949.068	30.85255	1.00000660
41 45	7254097.915	30.85275	1.00001002
41 46	7252246.750	30.85295	1.00001354
41 47	7250395.573	30.85315	1.00001713
41 48	7248544.384	30.85336	1.00002082
41 49	7246693.182	30.85356	1.00002458
41 50	7244841.968	30.85377	1.00002844
41 51	7242990.742	30.85399	1.00003238
41 52	7241139.503	30.85420	1.00003640
41 53	7239288.251	30.85442	1.00004051
41 54	7237436.985	30.85464	1.00004470
41 55	7235585.707	30.85486	1.00004898
41 56	7233734.415	30.85509	1.00005335
41 57	7231883.110	30.85532	1.00005780
41 58	7230031.791	30.85555	1.00006234
41 59	7228180.458	30.85578	1.00006696
42 0	7226329.111	30.85602	1.00007167
42 1	7224477.749	30.85626	1.00007646
42 2	7222626.374	30.85650	1.00008134
42 3	7220774.984	30.85675	1.00008630
42 4	7218923.579	30.85699	1.00009135
42 5	7217072.160	30.85724	1.00009649
42 6	7215220.725	30.85749	1.00010171
42 7	7213369.275	30.85775	1.00010702
42 8	7211517.811	30.85801	1.00011241
42 9	7209666.330	30.85827	1.00011789
42 10	7207814.834	30.85853	1.00012345

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OHIO SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

$\phi_b = 38^\circ\ 0'$ (latitude of grid origin)
$\lambda_{CM} = 82\ 30$ (longitude of origin and Central Meridian, CM)
$\phi_s = 38\ 44$ (southern standard parallel)
$\phi_n = 40\ \ 2$ (northern standard parallel)
$E_o = 600000.0000$ m (easting coordinate of origin)
$N_b = 0.0000$ m (northing coordinate of origin)

Derived constants

$\ell = 0.634519536788 = \sin(\phi_o)$
$K = 12478096.2534$ m (mapping radius at the equator)
$R_b = 7932869.0374$ m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E_o$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	39 23 0.00000 83 0 0.00000	7779300.758 m -0 19 2.13517	-0.0055371992 0.9999846696	556924.462 m 153687.540 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 160000.000 m	50000.000 m 7772869.037 m	7773029.8515 m 0 22 6.80713	39 26 23.3509 81 55 8.9578

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
OHIO SOUTH

Lat	R (meters)	tab diff.	k
38° 0'	7932869.037	30.83922	1.00022476
38 1	7931018.684	30.83910	1.00021786
38 2	7929168.338	30.83898	1.00021105
38 3	7927318.000	30.83886	1.00020433
38 4	7925467.668	30.83874	1.00019768
38 5	7923617.343	30.83863	1.00019112
38 6	7921767.026	30.83852	1.00018464
38 7	7919916.715	30.83841	1.00017825
38 8	7918066.410	30.83830	1.00017193
38 9	7916216.112	30.83820	1.00016570
38 10	7914365.820	30.83810	1.00015956
38 11	7912515.534	30.83800	1.00015349
38 12	7910665.253	30.83791	1.00014751
38 13	7908814.979	30.83782	1.00014161
38 14	7906964.710	30.83772	1.00013580
38 15	7905114.446	30.83764	1.00013007
38 16	7903264.188	30.83755	1.00012442
38 17	7901413.935	30.83747	1.00011885
38 18	7899563.687	30.83739	1.00011337
38 19	7897713.444	30.83731	1.00010797
38 20	7895863.205	30.83724	1.00010265
38 21	7894012.971	30.83717	1.00009741
38 22	7892162.741	30.83710	1.00009226
38 23	7890312.515	30.83703	1.00008720
38 24	7888462.293	30.83696	1.00008221
38 25	7886612.075	30.83690	1.00007731
38 26	7884761.861	30.83684	1.00007249
38 27	7882911.651	30.83679	1.00006776
38 28	7881061.444	30.83673	1.00006310
38 29	7879211.240	30.83668	1.00005853
38 30	7877361.039	30.83663	1.00005405
38 31	7875510.841	30.83658	1.00004965
38 32	7873660.646	30.83654	1.00004533
38 33	7871810.453	30.83650	1.00004109
38 34	7869960.263	30.83646	1.00003694
38 35	7868110.076	30.83642	1.00003287
38 36	7866259.890	30.83639	1.00002888
38 37	7864409.707	30.83636	1.00002498
38 38	7862559.525	30.83633	1.00002116
38 39	7860709.345	30.83631	1.00001743

Lambert conformal conic projection tables
OHIO SOUTH

Lat	R (meters)	tab diff.	k
38° 40'	7858859.167	30.83628	1.00001377
38 41	7857008.990	30.83626	1.00001021
38 42	7855158.814	30.83624	1.00000672
38 43	7853308.640	30.83623	1.00000332
38 44	7851458.466	30.83622	1.00000000
38 45	7849608.293	30.83621	0.99999677
38 46	7847758.121	30.83620	0.99999361
38 47	7845907.949	30.83619	0.99999055
38 48	7844057.777	30.83619	0.99998756
38 49	7842207.606	30.83619	0.99998466
38 50	7840357.434	30.83619	0.99998184
38 51	7838507.263	30.83620	0.99997911
38 52	7836657.091	30.83621	0.99997646
38 53	7834806.919	30.83622	0.99997389
38 54	7832956.746	30.83623	0.99997141
38 55	7831106.572	30.83624	0.99996901
38 56	7829256.397	30.83626	0.99996670
38 57	7827406.222	30.83628	0.99996447
38 58	7825556.045	30.83631	0.99996232
38 59	7823705.866	30.83633	0.99996026
39 0	7821855.686	30.83636	0.99995828
39 1	7820005.504	30.83639	0.99995638
39 2	7818155.321	30.83643	0.99995457
39 3	7816305.135	30.83646	0.99995284
39 4	7814454.947	30.83650	0.99995119
39 5	7812604.757	30.83654	0.99994963
39 6	7810754.565	30.83659	0.99994816
39 7	7808904.369	30.83663	0.99994676
39 8	7807054.171	30.83668	0.99994545
39 9	7805203.970	30.83674	0.99994423
39 10	7803353.766	30.83679	0.99994309
39 11	7801503.559	30.83685	0.99994203
39 12	7799653.348	30.83691	0.99994106
39 13	7797803.134	30.83697	0.99994017
39 14	7795952.915	30.83703	0.99993936
39 15	7794102.693	30.83710	0.99993864
39 16	7792252.467	30.83717	0.99993801
39 17	7790402.237	30.83725	0.99993746
39 18	7788552.002	30.83732	0.99993699
39 19	7786701.763	30.83740	0.99993660

Lambert conformal conic projection tables
OHIO SOUTH

Lat	R (meters)	tab diff.	k
39° 20'	7784851.519	30.83748	0.99993630
39 21	7783001.270	30.83756	0.99993609
39 22	7781151.017	30.83765	0.99993596
39 23	7779300.758	30.83774	0.99993591
39 24	7777450.493	30.83783	0.99993594
39 25	7775600.224	30.83792	0.99993607
39 26	7773749.949	30.83802	0.99993627
39 27	7771899.667	30.83812	0.99993656
39 28	7770049.380	30.83822	0.99993694
39 29	7768199.087	30.83832	0.99993739
39 30	7766348.788	30.83843	0.99993794
39 31	7764498.482	30.83854	0.99993856
39 32	7762648.170	30.83865	0.99993928
39 33	7760797.851	30.83876	0.99994007
39 34	7758947.525	30.83888	0.99994095
39 35	7757097.192	30.83900	0.99994192
39 36	7755246.852	30.83912	0.99994297
39 37	7753396.505	30.83925	0.99994410
39 38	7751546.150	30.83938	0.99994532
39 39	7749695.787	30.83951	0.99994663
39 40	7747845.417	30.83964	0.99994801
39 41	7745995.039	30.83978	0.99994949
39 42	7744144.652	30.83991	0.99995104
39 43	7742294.257	30.84005	0.99995269
39 44	7740443.854	30.84020	0.99995441
39 45	7738593.442	30.84034	0.99995622
39 46	7736743.022	30.84049	0.99995812
39 47	7734892.592	30.84064	0.99996010
39 48	7733042.153	30.84080	0.99996217
39 49	7731191.706	30.84095	0.99996432
39 50	7729341.248	30.84111	0.99996655
39 51	7727490.782	30.84127	0.99996887
39 52	7725640.305	30.84144	0.99997128
39 53	7723789.819	30.84161	0.99997377
39 54	7721939.323	30.84178	0.99997634
39 55	7720088.816	30.84195	0.99997900
39 56	7718238.299	30.84212	0.99998175
39 57	7716387.772	30.84230	0.99998458
39 58	7714537.234	30.84248	0.99998749
39 59	7712686.685	30.84266	0.99999049

Lambert conformal conic projection tables
OHIO SOUTH

Lat	R (meters)	tab diff.	k
40° 0'	7710836.125	30.84285	0.99999358
40 1	7708985.554	30.84304	0.99999675
40 2	7707134.972	30.84323	1.0000000
40 3	7705284.378	30.84342	1.00000334
40 4	7703433.773	30.84362	1.00000677
40 5	7701583.156	30.84382	1.00001028
40 6	7699732.527	30.84402	1.00001387
40 7	7697881.886	30.84422	1.00001755
40 8	7696031.233	30.84443	1.00002132
40 9	7694180.567	30.84464	1.00002517
40 10	7692329.889	30.84485	1.00002910
40 11	7690479.198	30.84506	1.00003313
40 12	7688628.495	30.84528	1.00003723
40 13	7686777.778	30.84550	1.00004143
40 14	7684927.048	30.84572	1.00004570
40 15	7683076.305	30.84595	1.00005007
40 16	7681225.548	30.84617	1.00005451
40 17	7679374.778	30.84640	1.00005905
40 18	7677523.993	30.84664	1.00006367
40 19	7675673.195	30.84687	1.00006837
40 20	7673822.383	30.84711	1.00007316
40 21	7671971.556	30.84735	1.00007804
40 22	7670120.715	30.84760	1.00008300
40 23	7668269.859	30.84784	1.00008805
40 24	7666418.989	30.84809	1.00009318
40 25	7664568.103	30.84834	1.00009840
40 26	7662717.203	30.84860	1.00010370
40 27	7660866.287	30.84885	1.00010909
40 28	7659015.356	30.84911	1.00011456
40 29	7657164.409	30.84937	1.00012013
40 30	7655313.447	30.84964	1.00012577
40 31	7653462.468	30.84991	1.00013150
40 32	7651611.474	30.85018	1.00013732
40 33	7649760.463	30.85045	1.00014323
40 34	7647909.436	30.85072	1.00014922
40 35	7646058.393	30.85100	1.00015529
40 36	7644207.333	30.85128	1.00016145
40 37	7642356.256	30.85157	1.00016770
40 38	7640505.162	30.85185	1.00017403
40 39	7638654.051	30.85214	1.00018045

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OKLAHOMA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 35° 0' (latitude of grid origin)
λ_{CM} = 98 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 35 34 (southern standard parallel)
ϕ_n = 36 46 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.590147072451 = $\sin(\phi_o)$
K = 13001040.2487 m (mapping radius at the equator)
R_b = 8864259.9258 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	36 10 0.00000 98 30 0.00000	8734814.909 m -0 17 42.26473	-0.0051499820 0.9999867388	555015.861 m 129560.851 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 130000.000 m	50000.000 m 8734259.926 m	8734403.0393 m 0 19 40.76720	36 10 13.3632 97 26 39.1984

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
OKLAHOMA NORTH

Lat	R (meters)	tab diff.	k
35° 0'	8864259.926	30.82143	1.00015108
35 1	8862410.640	30.82134	1.00014526
35 2	8860561.359	30.82125	1.00013953
35 3	8858712.084	30.82116	1.00013388
35 4	8856862.814	30.82108	1.00012831
35 5	8855013.550	30.82099	1.00012282
35 6	8853164.290	30.82091	1.00011742
35 7	8851315.035	30.82084	1.00011210
35 8	8849465.785	30.82076	1.00010687
35 9	8847616.539	30.82069	1.00010172
35 10	8845767.298	30.82062	1.00009665
35 11	8843918.061	30.82055	1.00009166
35 12	8842068.828	30.82049	1.00008676
35 13	8840219.599	30.82042	1.00008194
35 14	8838370.373	30.82036	1.00007720
35 15	8836521.151	30.82031	1.00007255
35 16	8834671.933	30.82025	1.00006798
35 17	8832822.718	30.82020	1.00006350
35 18	8830973.506	30.82015	1.00005909
35 19	8829124.297	30.82011	1.00005477
35 20	8827275.090	30.82006	1.00005054
35 21	8825425.887	30.82002	1.00004639
35 22	8823576.685	30.81998	1.00004232
35 23	8821727.486	30.81994	1.00003833
35 24	8819878.290	30.81991	1.00003443
35 25	8818029.095	30.81988	1.00003061
35 26	8816179.902	30.81985	1.00002688
35 27	8814330.711	30.81982	1.00002322
35 28	8812481.522	30.81980	1.00001966
35 29	8810632.334	30.81978	1.00001617
35 30	8808783.147	30.81976	1.00001277
35 31	8806933.961	30.81975	1.00000945
35 32	8805084.776	30.81973	1.00000622
35 33	8803235.592	30.81972	1.00000307
35 34	8801386.409	30.81972	1.0000000
35 35	8799537.226	30.81971	0.99999702
35 36	8797688.043	30.81971	0.99999412
35 37	8795838.861	30.81971	0.99999130
35 38	8793989.679	30.81971	0.99998857
35 39	8792140.496	30.81972	0.99998592

Lambert conformal conic projection tables
OKLAHOMA NORTH

Lat	R (meters)	tab diff.	k
35° 40'	8790291.313	30.81972	0.99998335
35 41	8788442.130	30.81973	0.99998087
35 42	8786592.946	30.81975	0.99997848
35 43	8784743.761	30.81976	0.99997616
35 44	8782894.575	30.81978	0.99997393
35 45	8781045.388	30.81980	0.99997179
35 46	8779196.200	30.81982	0.99996972
35 47	8777347.011	30.81985	0.99996774
35 48	8775497.820	30.81988	0.99996585
35 49	8773648.627	30.81991	0.99996404
35 50	8771799.433	30.81994	0.99996231
35 51	8769950.236	30.81998	0.99996067
35 52	8768101.037	30.82002	0.99995911
35 53	8766251.836	30.82006	0.99995763
35 54	8764402.633	30.82010	0.99995624
35 55	8762553.427	30.82015	0.99995493
35 56	8760704.217	30.82020	0.99995371
35 57	8758855.005	30.82025	0.99995257
35 58	8757005.790	30.82031	0.99995152
35 59	8755156.572	30.82036	0.99995054
36 0	8753307.350	30.82042	0.99994966
36 1	8751458.125	30.82049	0.99994885
36 2	8749608.896	30.82055	0.99994813
36 3	8747759.663	30.82062	0.99994750
36 4	8745910.426	30.82069	0.99994695
36 5	8744061.184	30.82076	0.99994648
36 6	8742211.939	30.82084	0.99994610
36 7	8740362.688	30.82091	0.99994580
36 8	8738513.433	30.82100	0.99994559
36 9	8736664.174	30.82108	0.99994545
36 10	8734814.909	30.82116	0.99994541
36 11	8732965.639	30.82125	0.99994545
36 12	8731116.364	30.82134	0.99994557
36 13	8729267.083	30.82144	0.99994578
36 14	8727417.797	30.82153	0.99994607
36 15	8725568.505	30.82163	0.99994644
36 16	8723719.207	30.82173	0.99994690
36 17	8721869.903	30.82184	0.99994745
36 18	8720020.593	30.82195	0.99994807
36 19	8718171.276	30.82205	0.99994879

Lambert conformal conic projection tables
OKLAHOMA NORTH

Lat	R (meters)	tab diff.	k
36° 20'	8716321.953	30.82217	0.99994958
36 21	8714472.623	30.82228	0.99995047
36 22	8712623.286	30.82240	0.99995143
36 23	8710773.942	30.82252	0.99995248
36 24	8708924.591	30.82264	0.99995362
36 25	8707075.232	30.82277	0.99995484
36 26	8705225.866	30.82289	0.99995614
36 27	8703376.493	30.82302	0.99995753
36 28	8701527.111	30.82316	0.99995900
36 29	8699677.722	30.82329	0.99996056
36 30	8697828.324	30.82343	0.99996220
36 31	8695978.918	30.82357	0.99996393
36 32	8694129.504	30.82372	0.99996574
36 33	8692280.081	30.82386	0.99996764
36 34	8690430.649	30.82401	0.99996962
36 35	8688581.209	30.82416	0.99997168
36 36	8686731.759	30.82432	0.99997383
36 37	8684882.300	30.82447	0.99997607
36 38	8683032.832	30.82463	0.99997839
36 39	8681183.354	30.82479	0.99998079
36 40	8679333.866	30.82496	0.99998328
36 41	8677484.369	30.82513	0.99998586
36 42	8675634.861	30.82529	0.99998852
36 43	8673785.344	30.82547	0.99999126
36 44	8671935.816	30.82564	0.99999409
36 45	8670086.277	30.82582	0.99999700
36 46	8668236.728	30.82600	1.0000000
36 47	8666387.168	30.82618	1.00000308
36 48	8664537.597	30.82637	1.00000625
36 49	8662688.015	30.82656	1.00000950
36 50	8660838.421	30.82675	1.00001284
36 51	8658988.817	30.82694	1.00001627
36 52	8657139.200	30.82714	1.00001977
36 53	8655289.572	30.82734	1.00002337
36 54	8653439.932	30.82754	1.00002705
36 55	8651590.279	30.82774	1.00003081
36 56	8649740.615	30.82795	1.00003466
36 57	8647890.938	30.82816	1.00003859
36 58	8646041.249	30.82837	1.00004261
36 59	8644191.546	30.82858	1.00004672

Lambert conformal conic projection tables
OKLAHOMA NORTH

Lat	R (meters)	tab diff.	k
37° 0'	8642341.831	30.82880	1.00005090
37 1	8640492.103	30.82902	1.00005518
37 2	8638642.362	30.82924	1.00005954
37 3	8636792.607	30.82947	1.00006398
37 4	8634942.839	30.82970	1.00006851
37 5	8633093.058	30.82993	1.00007313
37 6	8631243.262	30.83016	1.00007783
37 7	8629393.452	30.83040	1.00008262
37 8	8627543.629	30.83063	1.00008749
37 9	8625693.791	30.83088	1.00009245
37 10	8623843.938	30.83112	1.00009749
37 11	8621994.071	30.83137	1.00010262
37 12	8620144.189	30.83161	1.00010783
37 13	8618294.292	30.83187	1.00011313
37 14	8616444.380	30.83212	1.00011851
37 15	8614594.453	30.83238	1.00012398
37 16	8612744.510	30.83264	1.00012954
37 17	8610894.552	30.83290	1.00013518
37 18	8609044.578	30.83316	1.00014090
37 19	8607194.588	30.83343	1.00014671
37 20	8605344.583	30.83370	1.00015261

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OKLAHOMA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 33° 20' (latitude of grid origin)
λ_{CM} = 98 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 33 56 (southern standard parallel)
ϕ_n = 35 14 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.567616677812 = $\sin(\phi.)$
K = 13318364.4294 m (mapping radius at the equator)
R_b = 9399243.5141 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	34 35 0.00000 98 30 0.00000	9260589.403 m -0 17 1.71002	-0.0049533697 0.9999877320	554128.877 m 138767.720 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	650000.000 m 140000.000 m	50000.000 m 9259243.514 m	9259378.5134 m 0 18 33.82102	34 35 39.2983 97 27 17.7232

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
OKLAHOMA SOUTH

Lat	R (meters)	tab diff.	k
33° 20'	9399243.514	30.81369	1.00017200
33 21	9397394.693	30.81358	1.00016577
33 22	9395545.878	30.81348	1.00015962
33 23	9393697.069	30.81337	1.00015355
33 24	9391848.267	30.81327	1.00014756
33 25	9389999.470	30.81318	1.00014166
33 26	9388150.680	30.81308	1.00013584
33 27	9386301.895	30.81299	1.00013011
33 28	9384453.116	30.81290	1.00012445
33 29	9382604.342	30.81281	1.00011888
33 30	9380755.573	30.81273	1.00011340
33 31	9378906.810	30.81264	1.00010799
33 32	9377058.051	30.81256	1.00010267
33 33	9375209.297	30.81249	1.00009744
33 34	9373360.548	30.81241	1.00009228
33 35	9371511.803	30.81234	1.00008721
33 36	9369663.063	30.81227	1.00008223
33 37	9367814.326	30.81221	1.00007732
33 38	9365965.594	30.81214	1.00007250
33 39	9364116.866	30.81208	1.00006777
33 40	9362268.141	30.81202	1.00006311
33 41	9360419.420	30.81196	1.00005854
33 42	9358570.702	30.81191	1.00005406
33 43	9356721.987	30.81186	1.00004965
33 44	9354873.275	30.81181	1.00004533
33 45	9353024.567	30.81177	1.00004110
33 46	9351175.861	30.81172	1.00003694
33 47	9349327.157	30.81168	1.00003287
33 48	9347478.457	30.81164	1.00002889
33 49	9345629.758	30.81161	1.00002498
33 50	9343781.062	30.81157	1.00002116
33 51	9341932.367	30.81154	1.00001743
33 52	9340083.674	30.81152	1.00001377
33 53	9338234.983	30.81149	1.00001021
33 54	9336386.294	30.81147	1.00000672
33 55	9334537.606	30.81145	1.00000332
33 56	9332688.919	30.81143	1.00000000
33 57	9330840.233	30.81142	0.99999677
33 58	9328991.548	30.81140	0.99999361
33 59	9327142.864	30.81139	0.99999055

Lambert conformal conic projection tables
OKLAHOMA SOUTH

Lat	R (meters)	tab diff.	k
34° 0'	9325294.180	30.81139	0.99998756
34 1	9323445.497	30.81138	0.99998466
34 2	9321596.814	30.81138	0.99998185
34 3	9319748.131	30.81138	0.99997911
34 4	9317899.448	30.81139	0.99997646
34 5	9316050.765	30.81139	0.99997390
34 6	9314202.081	30.81140	0.99997142
34 7	9312353.397	30.81141	0.99996902
34 8	9310504.713	30.81142	0.99996670
34 9	9308656.027	30.81144	0.99996447
34 10	9306807.341	30.81146	0.99996233
34 11	9304958.653	30.81148	0.99996026
34 12	9303109.964	30.81151	0.99995829
34 13	9301261.274	30.81153	0.99995639
34 14	9299412.582	30.81156	0.99995458
34 15	9297563.888	30.81159	0.99995285
34 16	9295715.193	30.81163	0.99995121
34 17	9293866.495	30.81167	0.99994965
34 18	9292017.795	30.81171	0.99994817
34 19	9290169.093	30.81175	0.99994678
34 20	9288320.388	30.81179	0.99994547
34 21	9286471.680	30.81184	0.99994425
34 22	9284622.970	30.81189	0.99994311
34 23	9282774.256	30.81194	0.99994205
34 24	9280925.540	30.81200	0.99994108
34 25	9279076.820	30.81206	0.99994019
34 26	9277228.096	30.81212	0.99993939
34 27	9275379.369	30.81218	0.99993867
34 28	9273530.638	30.81225	0.99993804
34 29	9271681.903	30.81232	0.99993748
34 30	9269833.164	30.81239	0.99993702
34 31	9267984.421	30.81246	0.99993663
34 32	9266135.674	30.81254	0.99993633
34 33	9264286.921	30.81262	0.99993612
34 34	9262438.164	30.81270	0.99993599
34 35	9260589.403	30.81278	0.99993594
34 36	9258740.636	30.81287	0.99993598
34 37	9256891.864	30.81296	0.99993610
34 38	9255043.086	30.81305	0.99993631
34 39	9253194.303	30.81314	0.99993660

Lambert conformal conic projection tables
OKLAHOMA SOUTH

Lat	R (meters)	tab diff.	k
34° 40'	9251345.515	30.81324	0.99993697
34 41	9249496.720	30.81334	0.99993743
34 42	9247647.920	30.81344	0.99993798
34 43	9245799.113	30.81355	0.99993860
34 44	9243950.300	30.81366	0.99993932
34 45	9242101.481	30.81377	0.99994011
34 46	9240252.655	30.81388	0.99994099
34 47	9238403.822	30.81400	0.99994196
34 48	9236554.982	30.81411	0.99994301
34 49	9234706.135	30.81423	0.99994414
34 50	9232857.281	30.81436	0.99994536
34 51	9231008.420	30.81448	0.99994667
34 52	9229159.551	30.81461	0.99994805
34 53	9227310.674	30.81474	0.99994953
34 54	9225461.789	30.81488	0.99995108
34 55	9223612.897	30.81501	0.99995272
34 56	9221763.996	30.81515	0.99995445
34 57	9219915.087	30.81530	0.99995626
34 58	9218066.169	30.81544	0.99995816
34 59	9216217.243	30.81559	0.99996013
35 0	9214368.307	30.81574	0.99996220
35 1	9212519.363	30.81589	0.99996435
35 2	9210670.410	30.81604	0.99996658
35 3	9208821.447	30.81620	0.99996890
35 4	9206972.475	30.81636	0.99997130
35 5	9205123.493	30.81652	0.99997379
35 6	9203274.502	30.81669	0.99997636
35 7	9201425.500	30.81686	0.99997902
35 8	9199576.489	30.81703	0.99998176
35 9	9197727.467	30.81720	0.99998459
35 10	9195878.435	30.81738	0.99998750
35 11	9194029.392	30.81756	0.99999050
35 12	9192180.339	30.81774	0.99999358
35 13	9190331.275	30.81792	0.99999675
35 14	9188482.199	30.81811	1.00000000
35 15	9186633.113	30.81830	1.00000334
35 16	9184784.015	30.81849	1.00000676
35 17	9182934.906	30.81868	1.00001026
35 18	9181085.785	30.81888	1.00001386
35 19	9179236.652	30.81908	1.00001753

Lambert conformal conic projection tables
OKLAHOMA SOUTH

Lat	R (meters)	tab diff.	k
35° 20'	9177387.507	30.81928	1.00002129
35 21	9175538.350	30.81949	1.00002514
35 22	9173689.181	30.81970	1.00002907
35 23	9171839.999	30.81991	1.00003309
35 24	9169990.805	30.82012	1.00003719
35 25	9168141.597	30.82033	1.00004138
35 26	9166292.377	30.82055	1.00004565
35 27	9164443.144	30.82077	1.00005000
35 28	9162593.898	30.82100	1.00005445
35 29	9160744.638	30.82122	1.00005897
35 30	9158895.364	30.82145	1.00006359
35 31	9157046.077	30.82168	1.00006829
35 32	9155196.776	30.82192	1.00007307
35 33	9153347.461	30.82215	1.00007794
35 34	9151498.132	30.82239	1.00008289
35 35	9149648.788	30.82264	1.00008793
35 36	9147799.430	30.82288	1.00009305
35 37	9145950.057	30.82313	1.00009826
35 38	9144100.670	30.82338	1.00010356
35 39	9142251.267	30.82363	1.00010894
35 40	9140401.849	30.82389	1.00011441

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OREGON NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 43° 40' (latitude of grid origin)
λ_{CM} = 120 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 44 20 (southern standard parallel)
ϕ_n = 46 0 (northern standard parallel)
E. =2500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.709186016884 = sin(ϕ.)
K = 11860484.1452 m (mapping radius at the equator)
R_b = 6517624.6963 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	45 10 0.00000 121 0 0.00000	6350942.766 m -0 21 16.53483	-0.0061887760 0.9999808493	2460695.438 m 166803.555 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	2540000.000 m 170000.000 m	40000.000 m 6347624.696 m	6347750.7264 m 0 21 39.77487	45 11 43.4104 119 59 27.2300

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
OREGON NORTH

Lat	R (meters)	tab diff.	k
43° 40'	6517624.696	30.86986	1.00023414
43 41	6515772.505	30.86972	1.00022668
43 42	6513920.321	30.86959	1.00021929
43 43	6512068.146	30.86945	1.00021200
43 44	6510215.979	30.86932	1.00020478
43 45	6508363.820	30.86919	1.00019764
43 46	6506511.668	30.86907	1.00019059
43 47	6504659.524	30.86894	1.00018362
43 48	6502807.388	30.86882	1.00017674
43 49	6500955.259	30.86870	1.00016993
43 50	6499103.136	30.86859	1.00016321
43 51	6497251.021	30.86847	1.00015657
43 52	6495398.913	30.86836	1.00015001
43 53	6493546.811	30.86826	1.00014354
43 54	6491694.715	30.86815	1.00013714
43 55	6489842.626	30.86805	1.00013084
43 56	6487990.544	30.86795	1.00012461
43 57	6486138.467	30.86785	1.00011846
43 58	6484286.396	30.86775	1.00011240
43 59	6482434.331	30.86766	1.00010642
44 0	6480582.271	30.86757	1.00010053
44 1	6478730.217	30.86748	1.00009471
44 2	6476878.168	30.86740	1.00008898
44 3	6475026.124	30.86731	1.00008334
44 4	6473174.085	30.86723	1.00007777
44 5	6471322.051	30.86716	1.00007229
44 6	6469470.022	30.86708	1.00006689
44 7	6467617.997	30.86701	1.00006157
44 8	6465765.977	30.86694	1.00005634
44 9	6463913.960	30.86687	1.00005119
44 10	6462061.948	30.86681	1.00004612
44 11	6460209.940	30.86675	1.00004113
44 12	6458357.935	30.86669	1.00003623
44 13	6456505.934	30.86663	1.00003141
44 14	6454653.936	30.86657	1.00002667
44 15	6452801.942	30.86652	1.00002202
44 16	6450949.950	30.86647	1.00001745
44 17	6449097.962	30.86643	1.00001296
44 18	6447245.976	30.86638	1.00000856
44 19	6445393.993	30.86634	1.00000424

Lambert conformal conic projection tables
OREGON NORTH

Lat	R (meters)	tab diff.	k
44° 20'	6443542.013	30.86630	1.00000000
44 21	6441690.035	30.86626	0.99999585
44 22	6439838.059	30.86623	0.99999177
44 23	6437986.085	30.86620	0.99998778
44 24	6436134.113	30.86617	0.99998388
44 25	6434282.143	30.86614	0.99998006
44 26	6432430.175	30.86612	0.99997632
44 27	6430578.207	30.86610	0.99997266
44 28	6428726.241	30.86608	0.99996909
44 29	6426874.277	30.86606	0.99996560
44 30	6425022.313	30.86605	0.99996220
44 31	6423170.350	30.86604	0.99995887
44 32	6421318.387	30.86603	0.99995564
44 33	6419466.425	30.86603	0.99995248
44 34	6417614.464	30.86602	0.99994941
44 35	6415762.502	30.86602	0.99994642
44 36	6413910.541	30.86602	0.99994351
44 37	6412058.579	30.86603	0.99994069
44 38	6410206.618	30.86604	0.99993796
44 39	6408354.655	30.86605	0.99993530
44 40	6406502.693	30.86606	0.99993273
44 41	6404650.729	30.86607	0.99993024
44 42	6402798.765	30.86609	0.99992784
44 43	6400946.799	30.86611	0.99992552
44 44	6399094.832	30.86613	0.99992328
44 45	6397242.864	30.86616	0.99992113
44 46	6395390.895	30.86619	0.99991906
44 47	6393538.924	30.86622	0.99991708
44 48	6391686.951	30.86625	0.99991517
44 49	6389834.975	30.86629	0.99991336
44 50	6387982.998	30.86632	0.99991162
44 51	6386131.019	30.86637	0.99990997
44 52	6384279.037	30.86641	0.99990841
44 53	6382427.052	30.86646	0.99990692
44 54	6380575.065	30.86650	0.99990553
44 55	6378723.075	30.86655	0.99990421
44 56	6376871.081	30.86661	0.99990298
44 57	6375019.085	30.86667	0.99990183
44 58	6373167.085	30.86672	0.99990077
44 59	6371315.082	30.86679	0.99989979

Lambert conformal conic projection tables
OREGON NORTH

Lat	R (meters)	tab diff.	k
45° 0'	6369463.074	30.86685	0.99989890
45 1	6367611.063	30.86692	0.99989809
45 2	6365759.048	30.86699	0.99989736
45 3	6363907.029	30.86706	0.99989672
45 4	6362055.006	30.86713	0.99989616
45 5	6360202.978	30.86721	0.99989569
45 6	6358350.945	30.86729	0.99989530
45 7	6356498.908	30.86737	0.99989499
45 8	6354646.866	30.86746	0.99989477
45 9	6352794.818	30.86754	0.99989464
45 10	6350942.766	30.86763	0.99989458
45 11	6349090.708	30.86773	0.99989461
45 12	6347238.644	30.86782	0.99989473
45 13	6345386.575	30.86792	0.99989493
45 14	6343534.500	30.86802	0.99989522
45 15	6341682.418	30.86812	0.99989559
45 16	6339830.331	30.86823	0.99989604
45 17	6337978.237	30.86834	0.99989658
45 18	6336126.137	30.86845	0.99989720
45 19	6334274.030	30.86856	0.99989791
45 20	6332421.916	30.86868	0.99989870
45 21	6330569.795	30.86880	0.99989958
45 22	6328717.667	30.86892	0.99990054
45 23	6326865.532	30.86904	0.99990158
45 24	6325013.390	30.86917	0.99990271
45 25	6323161.240	30.86930	0.99990393
45 26	6321309.082	30.86943	0.99990523
45 27	6319456.916	30.86957	0.99990661
45 28	6317604.742	30.86970	0.99990808
45 29	6315752.560	30.86984	0.99990963
45 30	6313900.369	30.86998	0.99991127
45 31	6312048.170	30.87013	0.99991300
45 32	6310195.962	30.87028	0.99991480
45 33	6308343.746	30.87043	0.99991670
45 34	6306491.520	30.87058	0.99991868
45 35	6304639.285	30.87074	0.99992074
45 36	6302787.041	30.87089	0.99992289
45 37	6300934.787	30.87105	0.99992512
45 38	6299082.524	30.87122	0.99992744
45 39	6297230.251	30.87138	0.99992984

Lambert conformal conic projection tables
OREGON NORTH

Lat	R (meters)	tab diff.	k
45° 40'	6295377.968	30.87155	0.99993233
45 41	6293525.675	30.87172	0.99993490
45 42	6291673.371	30.87190	0.99993756
45 43	6289821.057	30.87207	0.99994031
45 44	6287968.733	30.87225	0.99994313
45 45	6286116.398	30.87244	0.99994605
45 46	6284264.052	30.87262	0.99994905
45 47	6282411.694	30.87281	0.99995213
45 48	6280559.326	30.87300	0.99995530
45 49	6278706.946	30.87319	0.99995856
45 50	6276854.555	30.87338	0.99996190
45 51	6275002.152	30.87358	0.99996532
45 52	6273149.737	30.87378	0.99996883
45 53	6271297.310	30.87398	0.99997243
45 54	6269444.871	30.87419	0.99997611
45 55	6267592.420	30.87440	0.99997988
45 56	6265739.956	30.87461	0.99998373
45 57	6263887.480	30.87482	0.99998767
45 58	6262034.990	30.87504	0.99999170
45 59	6260182.488	30.87526	0.99999580
46 0	6258329.973	30.87548	1.00000000
46 1	6256477.444	30.87570	1.00000428
46 2	6254624.902	30.87593	1.00000865
46 3	6252772.346	30.87616	1.00001310
46 4	6250919.777	30.87639	1.00001764
46 5	6249067.194	30.87662	1.00002226
46 6	6247214.596	30.87686	1.00002697
46 7	6245361.985	30.87710	1.00003177
46 8	6243509.359	30.87734	1.00003665
46 9	6241656.718	30.87759	1.00004162
46 10	6239804.063	30.87784	1.00004667
46 11	6237951.393	30.87809	1.00005181
46 12	6236098.707	30.87834	1.00005703
46 13	6234246.007	30.87860	1.00006234
46 14	6232393.291	30.87885	1.00006774
46 15	6230540.560	30.87911	1.00007322
46 16	6228687.813	30.87938	1.00007879
46 17	6226835.050	30.87964	1.00008445
46 18	6224982.272	30.87991	1.00009019
46 19	6223129.477	30.88019	1.00009602

Lambert conformal conic projection tables
OREGON NORTH

Lat	R (meters)	tab diff.	k
46° 20'	6221276.666	30.88046	1.00010193
46 21	6219423.838	30.88074	1.00010793
46 22	6217570.994	30.88102	1.00011401
46 23	6215718.133	30.88130	1.00012019
46 24	6213865.255	30.88158	1.00012645
46 25	6212012.360	30.88187	1.00013279
46 26	6210159.448	30.88216	1.00013922
46 27	6208306.518	30.88245	1.00014574
46 28	6206453.571	30.88275	1.00015234
46 29	6204600.606	30.88305	1.00015903
46 30	6202747.623	30.88335	1.00016581

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is OREGON SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 41° 40' (latitude of grid origin)
λ_{CM} = 120 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 42 20 (southern standard parallel)
ϕ_n = 44 0 (northern standard parallel)
E. =1500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.684147361009 = sin(ϕ.)
K = 12033772.6984 m (mapping radius at the equator)
R_b = 6976289.2382 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	43 10 0.00000 121 0 0.00000	6809665.797 m -0 20 31.46525	-0.0059702765 0.9999821777	1459344.412 m 166744.805 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	1550000.000 m 170000.000 m	50000.000 m 6806289.238 m	6806472.8894 m 0 25 15.22429	43 11 43.4749 119 53 5.2370

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
OREGON SOUTH

Lat	R (meters)	tab diff.	k
41° 40'	6976289.238	30.85905	1.00023422
41 41	6974437.695	30.85891	1.00022675
41 42	6972586.161	30.85877	1.00021937
41 43	6970734.634	30.85864	1.00021206
41 44	6968883.116	30.85851	1.00020484
41 45	6967031.606	30.85838	1.00019770
41 46	6965180.103	30.85825	1.00019065
41 47	6963328.608	30.85813	1.00018368
41 48	6961477.120	30.85801	1.00017679
41 49	6959625.640	30.85789	1.00016998
41 50	6957774.167	30.85777	1.00016325
41 51	6955922.701	30.85766	1.00015661
41 52	6954071.241	30.85755	1.00015005
41 53	6952219.788	30.85744	1.00014357
41 54	6950368.342	30.85733	1.00013718
41 55	6948516.902	30.85723	1.00013087
41 56	6946665.469	30.85713	1.00012464
41 57	6944814.041	30.85703	1.00011849
41 58	6942962.620	30.85693	1.00011243
41 59	6941111.204	30.85684	1.00010645
42 0	6939259.794	30.85675	1.00010055
42 1	6937408.389	30.85666	1.00009473
42 2	6935556.989	30.85657	1.00008900
42 3	6933705.595	30.85649	1.00008335
42 4	6931854.205	30.85641	1.00007778
42 5	6930002.821	30.85633	1.00007230
42 6	6928151.441	30.85626	1.00006690
42 7	6926300.065	30.85618	1.00006158
42 8	6924448.694	30.85611	1.00005635
42 9	6922597.328	30.85605	1.00005119
42 10	6920745.965	30.85598	1.00004612
42 11	6918894.606	30.85592	1.00004114
42 12	6917043.251	30.85586	1.00003624
42 13	6915191.900	30.85580	1.00003141
42 14	6913340.552	30.85575	1.00002668
42 15	6911489.207	30.85569	1.00002202
42 16	6909637.865	30.85564	1.00001745
42 17	6907786.527	30.85560	1.00001296
42 18	6905935.191	30.85555	1.00000856
42 19	6904083.858	30.85551	1.00000424

Lambert conformal conic projection tables
OREGON SOUTH

Lat	R (meters)	tab diff.	k
42° 20'	6902232.527	30.85547	1.0000000
42 21	6900381.199	30.85543	0.99999584
42 22	6898529.873	30.85540	0.99999177
42 23	6896678.549	30.85537	0.99998778
42 24	6894827.227	30.85534	0.99998388
42 25	6892975.907	30.85531	0.99998006
42 26	6891124.588	30.85529	0.99997632
42 27	6889273.271	30.85527	0.99997266
42 28	6887421.955	30.85525	0.99996909
42 29	6885570.641	30.85523	0.99996560
42 30	6883719.327	30.85522	0.99996220
42 31	6881868.014	30.85521	0.99995887
42 32	6880016.701	30.85520	0.99995564
42 33	6878165.390	30.85519	0.99995248
42 34	6876314.078	30.85519	0.99994941
42 35	6874462.767	30.85519	0.99994642
42 36	6872611.456	30.85519	0.99994352
42 37	6870760.144	30.85519	0.99994069
42 38	6868908.833	30.85520	0.99993796
42 39	6867057.521	30.85521	0.99993530
42 40	6865206.208	30.85522	0.99993273
42 41	6863354.895	30.85524	0.99993025
42 42	6861503.581	30.85525	0.99992784
42 43	6859652.266	30.85527	0.99992552
42 44	6857800.949	30.85530	0.99992329
42 45	6855949.632	30.85532	0.99992114
42 46	6854098.313	30.85535	0.99991907
42 47	6852246.992	30.85538	0.99991708
42 48	6850395.669	30.85541	0.99991518
42 49	6848544.344	30.85545	0.99991337
42 50	6846693.018	30.85548	0.99991163
42 51	6844841.689	30.85552	0.99990998
42 52	6842990.357	30.85557	0.99990842
42 53	6841139.023	30.85561	0.99990694
42 54	6839287.686	30.85566	0.99990554
42 55	6837436.346	30.85571	0.99990422
42 56	6835585.004	30.85577	0.99990300
42 57	6833733.658	30.85582	0.99990185
42 58	6831882.308	30.85588	0.99990079
42 59	6830030.955	30.85594	0.99989981

Lambert conformal conic projection tables
OREGON SOUTH

Lat	R (meters)	tab diff.	k
43° 0'	6828179.599	30.85601	0.99989892
43 1	6826328.239	30.85607	0.99989811
43 2	6824476.874	30.85614	0.99989738
43 3	6822625.506	30.85621	0.99989674
43 4	6820774.133	30.85629	0.99989618
43 5	6818922.755	30.85636	0.99989571
43 6	6817071.374	30.85644	0.99989532
43 7	6815219.987	30.85653	0.99989502
43 8	6813368.595	30.85661	0.99989480
43 9	6811517.199	30.85670	0.99989466
43 10	6809665.797	30.85679	0.99989461
43 11	6807814.389	30.85688	0.99989464
43 12	6805962.977	30.85698	0.99989476
43 13	6804111.558	30.85707	0.99989496
43 14	6802260.134	30.85717	0.99989524
43 15	6800408.703	30.85728	0.99989561
43 16	6798557.266	30.85738	0.99989607
43 17	6796705.823	30.85749	0.99989661
43 18	6794854.374	30.85760	0.99989723
43 19	6793002.918	30.85772	0.99989794
43 20	6791151.455	30.85783	0.99989873
43 21	6789299.985	30.85795	0.99989961
43 22	6787448.508	30.85807	0.99990057
43 23	6785597.024	30.85820	0.99990161
43 24	6783745.532	30.85832	0.99990274
43 25	6781894.033	30.85845	0.99990396
43 26	6780042.526	30.85858	0.99990526
43 27	6778191.011	30.85872	0.99990664
43 28	6776339.488	30.85885	0.99990811
43 29	6774487.957	30.85899	0.99990967
43 30	6772636.417	30.85914	0.99991131
43 31	6770784.869	30.85928	0.99991303
43 32	6768933.312	30.85943	0.99991484
43 33	6767081.746	30.85958	0.99991673
43 34	6765230.172	30.85973	0.99991871
43 35	6763378.588	30.85989	0.99992077
43 36	6761526.995	30.86004	0.99992292
43 37	6759675.392	30.86020	0.99992515
43 38	6757823.780	30.86037	0.99992747
43 39	6755972.158	30.86053	0.99992987

Lambert conformal conic projection tables
OREGON SOUTH

Lat	R (meters)	tab diff.	k
43° 40'	6754120.526	30.86070	0.99993236
43 41	6752268.884	30.86087	0.99993493
43 42	6750417.232	30.86105	0.99993759
43 43	6748565.569	30.86122	0.99994033
43 44	6746713.895	30.86140	0.99994316
43 45	6744862.211	30.86158	0.99994607
43 46	6743010.516	30.86177	0.99994907
43 47	6741158.810	30.86195	0.99995215
43 48	6739307.093	30.86214	0.99995532
43 49	6737455.364	30.86234	0.99995858
43 50	6735603.624	30.86253	0.99996192
43 51	6733751.873	30.86273	0.99996534
43 52	6731900.109	30.86293	0.99996885
43 53	6730048.333	30.86313	0.99997244
43 54	6728196.545	30.86334	0.99997612
43 55	6726344.745	30.86354	0.99997989
43 56	6724492.933	30.86375	0.99998374
43 57	6722641.107	30.86397	0.99998768
43 58	6720789.269	30.86418	0.99999170
43 59	6718937.418	30.86440	0.99999581
44 0	6717085.554	30.86462	1.0000000
44 1	6715233.677	30.86485	1.00000428
44 2	6713381.786	30.86507	1.00000864
44 3	6711529.882	30.86530	1.00001309
44 4	6709677.964	30.86553	1.00001763
44 5	6707826.032	30.86577	1.00002225
44 6	6705974.086	30.86600	1.00002695
44 7	6704122.125	30.86624	1.00003175
44 8	6702270.151	30.86649	1.00003663
44 9	6700418.161	30.86673	1.00004159
44 10	6698566.157	30.86698	1.00004664
44 11	6696714.139	30.86723	1.00005177
44 12	6694862.105	30.86748	1.00005699
44 13	6693010.056	30.86774	1.00006230
44 14	6691157.992	30.86800	1.00006769
44 15	6689305.912	30.86826	1.00007317
44 16	6687453.816	30.86852	1.00007874
44 17	6685601.705	30.86879	1.00008439
44 18	6683749.578	30.86906	1.00009013
44 19	6681897.435	30.86933	1.00009595

Lambert conformal conic projection tables
OREGON SOUTH

Lat	R (meters)	tab diff.	k
44° 20'	6680045.275	30.86960	1.00010186
44 21	6678193.099	30.86988	1.00010785
44 22	6676340.906	30.87016	1.00011393
44 23	6674488.697	30.87044	1.00012010
44 24	6672636.470	30.87072	1.00012635
44 25	6670784.227	30.87101	1.00013269
44 26	6668931.966	30.87130	1.00013912
44 27	6667079.688	30.87159	1.00014563
44 28	6665227.392	30.87189	1.00015223
44 29	6663375.079	30.87219	1.00015891
44 30	6661522.748	30.87249	1.00016568
44 31	6659670.398	30.87279	1.00017254
44 32	6657818.031	30.87310	1.00017948
44 33	6655965.645	30.87341	1.00018651
44 34	6654113.240	30.87372	1.00019363
44 35	6652260.817	30.87403	1.00020083
44 36	6650408.375	30.87435	1.00020812
44 37	6648555.914	30.87467	1.00021550
44 38	6646703.434	30.87499	1.00022296
44 39	6644850.934	30.87532	1.00023051
44 40	6642998.415	30.87564	1.00023814
44 41	6641145.877	30.87597	1.00024587
44 42	6639293.318	30.87631	1.00025367
44 43	6637440.740	30.87664	1.00026157
44 44	6635588.141	30.87698	1.00026955
44 45	6633735.523	30.87732	1.00027762
44 46	6631882.883	30.87767	1.00028578
44 47	6630030.223	30.87801	1.00029402
44 48	6628177.543	30.87836	1.00030235
44 49	6626324.841	30.87871	1.00031076
44 50	6624472.118	30.87907	1.00031927
44 51	6622619.374	30.87942	1.00032786
44 52	6620766.609	30.87978	1.00033653
44 53	6618913.822	30.88015	1.00034530
44 54	6617061.013	30.88051	1.00035415
44 55	6615208.182	30.88088	1.00036309
44 56	6613355.330	30.88125	1.00037211
44 57	6611502.455	30.88162	1.00038122
44 58	6609649.558	30.88200	1.00039042
44 59	6607796.638	30.88238	1.00039971

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is PENNSYLVANIA NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 40° 10' (latitude of grid origin)
λ_{CM} = 77 45 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 53 (southern standard parallel)
ϕ_n = 41 57 (northern standard parallel)
$E_.$ = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.661539733812 = \sin(\phi_.)$
K = 12219540.4665 m (mapping radius at the equator)
R_b = 7379348.3668 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	41 25 0.00000 78 15 0.00000	7240531.059 m -0 19 50.77152	-0.0057729912 0.9999833361	558200.478 m 138937.963 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	650000.000 m 140000.000 m	50000.000 m 7239348.367 m	7239521.0322 m 0 23 44.58628	41 25 32.7407 77 9 6.5598

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
PENNSYLVANIA NORTH

Lat	R (meters)	tab diff.	k
40° 10'	7379348.367	30.84974	1.00019272
40 11	7377497.383	30.84963	1.00018649
40 12	7375646.405	30.84954	1.00018035
40 13	7373795.432	30.84944	1.00017429
40 14	7371944.466	30.84934	1.00016831
40 15	7370093.505	30.84925	1.00016241
40 16	7368242.550	30.84916	1.00015660
40 17	7366391.600	30.84908	1.00015087
40 18	7364540.656	30.84899	1.00014523
40 19	7362689.716	30.84891	1.00013966
40 20	7360838.781	30.84883	1.00013418
40 21	7358987.851	30.84876	1.00012879
40 22	7357136.926	30.84869	1.00012347
40 23	7355286.004	30.84861	1.00011824
40 24	7353435.088	30.84855	1.00011309
40 25	7351584.175	30.84848	1.00010803
40 26	7349733.266	30.84842	1.00010305
40 27	7347882.361	30.84836	1.00009815
40 28	7346031.460	30.84830	1.00009333
40 29	7344180.562	30.84824	1.00008860
40 30	7342329.667	30.84819	1.00008395
40 31	7340478.776	30.84814	1.00007938
40 32	7338627.887	30.84809	1.00007490
40 33	7336777.002	30.84805	1.00007050
40 34	7334926.119	30.84800	1.00006618
40 35	7333075.239	30.84796	1.00006195
40 36	7331224.361	30.84793	1.00005780
40 37	7329373.485	30.84789	1.00005373
40 38	7327522.612	30.84786	1.00004975
40 39	7325671.740	30.84783	1.00004585
40 40	7323820.870	30.84780	1.00004203
40 41	7321970.002	30.84778	1.00003830
40 42	7320119.135	30.84776	1.00003465
40 43	7318268.270	30.84774	1.00003108
40 44	7316417.406	30.84772	1.00002760
40 45	7314566.543	30.84771	1.00002420
40 46	7312715.680	30.84769	1.00002088
40 47	7310864.819	30.84769	1.00001765
40 48	7309013.958	30.84768	1.00001450
40 49	7307163.097	30.84767	1.00001143

Lambert conformal conic projection tables
PENNSYLVANIA NORTH

Lat	R (meters)	tab diff.	k
40° 50'	7305312.236	30.84767	1.00000845
40 51	7303461.376	30.84767	1.00000555
40 52	7301610.515	30.84768	1.00000273
40 53	7299759.655	30.84769	1.0000000
40 54	7297908.794	30.84769	0.99999735
40 55	7296057.932	30.84771	0.99999479
40 56	7294207.070	30.84772	0.99999231
40 57	7292356.206	30.84774	0.99998991
40 58	7290505.342	30.84776	0.99998759
40 59	7288654.477	30.84778	0.99998537
41 0	7286803.610	30.84780	0.99998322
41 1	7284952.742	30.84783	0.99998116
41 2	7283101.872	30.84786	0.99997918
41 3	7281251.001	30.84789	0.99997728
41 4	7279400.127	30.84793	0.99997547
41 5	7277549.251	30.84796	0.99997374
41 6	7275698.374	30.84800	0.99997210
41 7	7273847.493	30.84805	0.99997054
41 8	7271996.610	30.84809	0.99996907
41 9	7270145.725	30.84814	0.99996767
41 10	7268294.836	30.84819	0.99996637
41 11	7266443.945	30.84824	0.99996514
41 12	7264593.050	30.84830	0.99996400
41 13	7262742.152	30.84836	0.99996295
41 14	7260891.251	30.84842	0.99996198
41 15	7259040.346	30.84848	0.99996109
41 16	7257189.437	30.84855	0.99996029
41 17	7255338.524	30.84862	0.99995957
41 18	7253487.607	30.84869	0.99995893
41 19	7251636.685	30.84876	0.99995838
41 20	7249785.760	30.84884	0.99995791
41 21	7247934.829	30.84892	0.99995753
41 22	7246083.894	30.84900	0.99995723
41 23	7244232.954	30.84908	0.99995702
41 24	7242382.009	30.84917	0.99995689
41 25	7240531.059	30.84926	0.99995684
41 26	7238680.103	30.84935	0.99995688
41 27	7236829.142	30.84945	0.99995700
41 28	7234978.175	30.84955	0.99995721

41 29	7233127.202	30.84965	0.99995750

Lambert conformal conic projection tables
PENNSYLVANIA NORTH

Lat	R (meters)	tab diff.	k
41° 30'	7231276.224	30.84975	0.99995788
41 31	7229425.239	30.84985	0.99995834
41 32	7227574.248	30.84996	0.99995888
41 33	7225723.250	30.85007	0.99995951
41 34	7223872.246	30.85018	0.99996022
41 35	7222021.235	30.85030	0.99996102
41 36	7220170.217	30.85042	0.99996190
41 37	7218319.191	30.85054	0.99996287
41 38	7216468.159	30.85066	0.99996392
41 39	7214617.119	30.85079	0.99996506
41 40	7212766.072	30.85092	0.99996628
41 41	7210915.017	30.85105	0.99996758
41 42	7209063.954	30.85118	0.99996897
41 43	7207212.883	30.85132	0.99997045
41 44	7205361.804	30.85146	0.99997201
41 45	7203510.716	30.85160	0.99997365
41 46	7201659.620	30.85175	0.99997538
41 47	7199808.516	30.85189	0.99997720
41 48	7197957.402	30.85204	0.99997909
41 49	7196106.280	30.85219	0.99998108
41 50	7194255.148	30.85235	0.99998315
41 51	7192404.007	30.85251	0.99998530
41 52	7190552.857	30.85267	0.99998754
41 53	7188701.697	30.85283	0.99998986
41 54	7186850.527	30.85300	0.99999227
41 55	7184999.347	30.85316	0.99999476
41 56	7183148.157	30.85333	0.99999734
41 57	7181296.957	30.85351	1.0000000
41 58	7179445.747	30.85368	1.00000275
41 59	7177594.526	30.85386	1.00000558
42 0	7175743.294	30.85404	1.00000850
42 1	7173892.051	30.85423	1.00001150
42 2	7172040.798	30.85441	1.00001459
42 3	7170189.533	30.85460	1.00001776
42 4	7168338.257	30.85479	1.00002102
42 5	7166486.969	30.85499	1.00002436
42 6	7164635.670	30.85519	1.00002779
42 7	7162784.359	30.85539	1.00003131

42 8	7160933.036	30.85559	1.00003491
42 9	7159081.700	30.85579	1.00003859

Lambert conformal conic projection tables
PENNSYLVANIA NORTH

Lat	R (meters)	tab diff.	k
42° 10'	7157230.353	30.85600	1.00004236
42 11	7155378.993	30.85621	1.00004621
42 12	7153527.620	30.85642	1.00005016
42 13	7151676.235	30.85664	1.00005418
42 14	7149824.836	30.85686	1.00005829
42 15	7147973.425	30.85708	1.00006249
42 16	7146122.000	30.85730	1.00006677
42 17	7144270.562	30.85753	1.00007114
42 18	7142419.110	30.85776	1.00007559
42 19	7140567.645	30.85799	1.00008013
42 20	7138716.166	30.85822	1.00008475
42 21	7136864.673	30.85846	1.00008946
42 22	7135013.165	30.85870	1.00009426
42 23	7133161.643	30.85894	1.00009914
42 24	7131310.107	30.85918	1.00010411
42 25	7129458.556	30.85943	1.00010916
42 26	7127606.990	30.85968	1.00011430
42 27	7125755.409	30.85993	1.00011952
42 28	7123903.813	30.86019	1.00012483
42 29	7122052.202	30.86045	1.00013023
42 30	7120200.575	30.86071	1.00013571

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is PENNSYLVANIA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 39° 20' (latitude of grid origin)
λ_{CM} = 77 45 (longitude of origin and Central Meridian, CM)
ϕ_s = 39 56 (southern standard parallel)
ϕ_n = 40 58 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.648793151619 = \sin(\phi_o)$
K = 12336392.1867 m (mapping radius at the equator)
R_b = 7615193.7581 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	40 27 0.00000 78 15 0.00000	7491204.623 m -0 19 27.82767	-0.0056617581 0.9999839721	557586.612 m 124109.203 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 130000.000 m	50000.000 m 7485193.758 m	7485360.7525 m 0 22 57.79826	40 30 9.4638 77 9 36.3674

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
PENNSYLVANIA SOUTH

Lat	R (meters)	tab diff.	k
39°20'	7615193.758	30.84392	1.00014788
39 21	7613343.123	30.84384	1.00014232
39 22	7611492.492	30.84376	1.00013683
39 23	7609641.867	30.84368	1.00013144
39 24	7607791.246	30.84361	1.00012612
39 25	7605940.629	30.84354	1.00012089
39 26	7604090.017	30.84347	1.00011574
39 27	7602239.409	30.84340	1.00011068
39 28	7600388.804	30.84334	1.00010569
39 29	7598538.204	30.84328	1.00010079
39 30	7596687.607	30.84322	1.00009598
39 31	7594837.014	30.84316	1.00009125
39 32	7592986.424	30.84311	1.00008660
39 33	7591135.838	30.84306	1.00008203
39 34	7589285.254	30.84301	1.00007755
39 35	7587434.673	30.84297	1.00007315
39 36	7585584.095	30.84292	1.00006883
39 37	7583733.520	30.84288	1.00006459
39 38	7581882.947	30.84284	1.00006044
39 39	7580032.376	30.84281	1.00005638
39 40	7578181.808	30.84278	1.00005239
39 41	7576331.241	30.84275	1.00004849
39 42	7574480.677	30.84272	1.00004468
39 43	7572630.114	30.84269	1.00004094
39 44	7570779.552	30.84267	1.00003729
39 45	7568928.992	30.84265	1.00003372
39 46	7567078.433	30.84263	1.00003024
39 47	7565227.875	30.84262	1.00002684
39 48	7563377.318	30.84261	1.00002352
39 49	7561526.761	30.84260	1.00002029
39 50	7559676.205	30.84259	1.00001714
39 51	7557825.650	30.84259	1.00001408
39 52	7555975.095	30.84258	1.00001109
39 53	7554124.540	30.84258	1.00000819
39 54	7552273.985	30.84259	1.00000538
39 55	7550423.429	30.84259	1.00000265
39 56	7548572.874	30.84260	1.00000000
39 57	7546722.318	30.84261	0.99999744
39 58	7544871.761	30.84263	0.99999495
39 59	7543021.203	30.84264	0.99999256

Lambert conformal conic projection tables
PENNSYLVANIA SOUTH

Lat	R (meters)	tab diff.	k
40° 0'	7541170.645	30.84266	0.99999024
40 1	7539320.085	30.84268	0.99998801
40 2	7537469.524	30.84271	0.99998587
40 3	7535618.961	30.84273	0.99998381
40 4	7533768.397	30.84276	0.99998183
40 5	7531917.831	30.84280	0.99997993
40 6	7530067.264	30.84283	0.99997812
40 7	7528216.694	30.84287	0.99997640
40 8	7526366.122	30.84291	0.99997475
40 9	7524515.547	30.84295	0.99997319
40 10	7522664.970	30.84299	0.99997172
40 11	7520814.391	30.84304	0.99997033
40 12	7518963.808	30.84309	0.99996902
40 13	7517113.223	30.84314	0.99996780
40 14	7515262.634	30.84320	0.99996666
40 15	7513412.042	30.84326	0.99996560
40 16	7511561.447	30.84332	0.99996463
40 17	7509710.848	30.84338	0.99996374
40 18	7507860.245	30.84345	0.99996294
40 19	7506009.638	30.84351	0.99996222
40 20	7504159.027	30.84359	0.99996159
40 21	7502308.412	30.84366	0.99996104
40 22	7500457.792	30.84374	0.99996057
40 23	7498607.168	30.84381	0.99996019
40 24	7496756.539	30.84390	0.99995989
40 25	7494905.906	30.84398	0.99995968
40 26	7493055.267	30.84407	0.99995955
40 27	7491204.623	30.84415	0.99995950
40 28	7489353.974	30.84425	0.99995954
40 29	7487503.319	30.84434	0.99995966
40 30	7485652.658	30.84444	0.99995987
40 31	7483801.992	30.84454	0.99996016
40 32	7481951.320	30.84464	0.99996054
40 33	7480100.642	30.84474	0.99996100
40 34	7478249.957	30.84485	0.99996154
40 35	7476399.266	30.84496	0.99996217
40 36	7474548.568	30.84507	0.99996289
40 37	7472697.864	30.84519	0.99996368
40 38	7470847.152	30.84531	0.99996457

40 39	7468996.434	30.84543	0.99996553

Lambert conformal conic projection tables
PENNSYLVANIA SOUTH

Lat	R (meters)	tab diff.	k
40° 40'	7467145.708	30.84555	0.99996659
40 41	7465294.975	30.84568	0.99996772
40 42	7463444.235	30.84580	0.99996894
40 43	7461593.486	30.84594	0.99997025
40 44	7459742.730	30.84607	0.99997164
40 45	7457891.966	30.84621	0.99997311
40 46	7456041.194	30.84634	0.99997467
40 47	7454190.413	30.84649	0.99997632
40 48	7452339.624	30.84663	0.99997805
40 49	7450488.826	30.84678	0.99997986
40 50	7448638.019	30.84693	0.99998176
40 51	7446787.204	30.84708	0.99998374
40 52	7444936.379	30.84723	0.99998581
40 53	7443085.545	30.84739	0.99998796
40 54	7441234.702	30.84755	0.99999020
40 55	7439383.849	30.84771	0.99999252
40 56	7437532.986	30.84788	0.99999493
40 57	7435682.114	30.84804	0.99999742
40 58	7433831.231	30.84821	1.00000000
40 59	7431980.338	30.84839	1.00000266
41 0	7430129.435	30.84856	1.00000541
41 1	7428278.521	30.84874	1.00000824
41 2	7426427.597	30.84892	1.00001116
41 3	7424576.662	30.84911	1.00001416
41 4	7422725.715	30.84929	1.00001725
41 5	7420874.758	30.84948	1.00002042
41 6	7419023.789	30.84967	1.00002368
41 7	7417172.809	30.84987	1.00002702
41 8	7415321.817	30.85006	1.00003045
41 9	7413470.813	30.85026	1.00003396
41 10	7411619.797	30.85046	1.00003756
41 11	7409768.770	30.85067	1.00004125
41 12	7407917.729	30.85087	1.00004501
41 13	7406066.677	30.85108	1.00004887
41 14	7404215.612	30.85130	1.00005281
41 15	7402364.534	30.85151	1.00005683
41 16	7400513.443	30.85173	1.00006094
41 17	7398662.340	30.85195	1.00006514

41 18	7396811.223	30.85217	1.00006942
41 19	7394960.092	30.85240	1.00007379

Lambert conformal conic projection tables
PENNSYLVANIA SOUTH

Lat	R (meters)	tab diff.	k
41° 20'	7393108.948	30.85263	1.00007824
41 21	7391257.791	30.85286	1.00008278
41 22	7389406.619	30.85309	1.00008740
41 23	7387555.434	30.85333	1.00009211
41 24	7385704.234	30.85357	1.00009690
41 25	7383853.020	30.85381	1.00010178
41 26	7382001.791	30.85405	1.00010675
41 27	7380150.548	30.85430	1.00011180
41 28	7378299.290	30.85455	1.00011693
41 29	7376448.017	30.85480	1.00012216
41 30	7374596.729	30.85506	1.00012746

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is PUERTO RICO & VI

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 17° 50' (latitude of grid origin)
λ_{CM} = 66 26 (longitude of origin and Central Meridian, CM)
ϕ_s = 18 2 (southern standard parallel)
ϕ_n = 18 26 (northern standard parallel)
E. = 200000.0000 m (easting coordinate of origin)
N_b = 200000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.312888187729 = $\sin(\phi.)$
K = 21418025.2278 m (mapping radius at the equator)
R_b = 19411706.1974 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	18 14 0.00000 66 56 0.00000	19367433.799 m -0 9 23.19874	-0.0027304611 0.9999962723	147117.975 m 244344.595 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	260000.000 m 250000.000 m	60000.000 m 19361706.197 m	19361799.1642 m 0 10 39.19205	18 17 3.2688 65 51 57.1231

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
PUERTO RICO & VI

Lat	R (meters)	tab diff.	k
17° 35'	19439376.477	30.74500	1.00005784
17 36	19437531.777	30.74495	1.00005460
17 37	19435687.079	30.74491	1.00005145
17 38	19433842.385	30.74487	1.00004839
17 39	19431997.693	30.74483	1.00004541
17 40	19430153.003	30.74479	1.00004251
17 41	19428308.315	30.74476	1.00003970
17 42	19426463.630	30.74473	1.00003697
17 43	19424618.946	30.74470	1.00003432
17 44	19422774.264	30.74468	1.00003176
17 45	19420929.583	30.74465	1.00002928
17 46	19419084.904	30.74463	1.00002689
17 47	19417240.226	30.74462	1.00002458
17 48	19415395.549	30.74460	1.00002235
17 49	19413550.873	30.74459	1.00002021
17 50	19411706.197	30.74458	1.00001815
17 51	19409861.523	30.74457	1.00001618
17 52	19408016.848	30.74457	1.00001429
17 53	19406172.174	30.74457	1.00001248
17 54	19404327.500	30.74457	1.00001076
17 55	19402482.826	30.74457	1.00000912
17 56	19400638.152	30.74458	1.00000757
17 57	19398793.477	30.74459	1.00000609
17 58	19396948.802	30.74460	1.00000471
17 59	19395104.126	30.74461	1.00000340
18 0	19393259.449	30.74463	1.00000219
18 1	19391414.772	30.74465	1.00000105
18 2	19389570.093	30.74467	1.00000000
18 3	19387725.413	30.74469	0.99999903
18 4	19385880.731	30.74472	0.99999815
18 5	19384036.048	30.74475	0.99999735
18 6	19382191.363	30.74478	0.99999664
18 7	19380346.676	30.74482	0.99999601
18 8	19378501.987	30.74486	0.99999546
18 9	19376657.295	30.74490	0.99999500
18 10	19374812.601	30.74494	0.99999462
18 11	19372967.905	30.74498	0.99999432
18 12	19371123.206	30.74503	0.99999411
18 13	19369278.504	30.74508	0.99999399
18 14	19367433.799	30.74514	0.99999394

Lambert conformal conic projection tables
PUERTO RICO & VI

Lat	R (meters)	tab diff.	k
18° 15'	19365589.091	30.74519	0.99999399
18 16	19363744.379	30.74525	0.99999411
18 17	19361899.664	30.74531	0.99999432
18 18	19360054.945	30.74538	0.99999462
18 19	19358210.223	30.74544	0.99999499
18 20	19356365.496	30.74551	0.99999546
18 21	19354520.765	30.74558	0.99999600
18 22	19352676.030	30.74566	0.99999663
18 23	19350831.291	30.74574	0.99999735
18 24	19348986.547	30.74582	0.99999815
18 25	19347141.798	30.74590	0.99999903
18 26	19345297.044	30.74598	1.00000000
18 27	19343452.285	30.74607	1.00000105
18 28	19341607.521	30.74616	1.00000219
18 29	19339762.751	30.74625	1.00000341
18 30	19337917.976	30.74635	1.00000471
18 31	19336073.195	30.74645	1.00000610
18 32	19334228.408	30.74655	1.00000757
18 33	19332383.615	30.74665	1.00000913
18 34	19330538.816	30.74676	1.00001077
18 35	19328694.011	30.74687	1.00001250
18 36	19326849.199	30.74698	1.00001431
18 37	19325004.380	30.74709	1.00001620
18 38	19323159.555	30.74721	1.00001818
18 39	19321314.722	30.74733	1.00002024
18 40	19319469.882	30.74745	1.00002239

TRANSVERSE MERCATOR PROJECTION

TABLES FOR RHODE ISLAND COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: RHODE ISLAND
ZONE CODE: 3800

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 41° 5' (latitude of grid origin)
λ_b = 71°30' (longitude of origin and Central Meridian, CM)
E_0 = 100000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999994 (scale along Central Meridian)
latitude range from ϕ_{min} = 41°05' to ϕ_{max} = 42°15'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 41°15'23".54600
LONGITUDE: 72°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 18509.4061
23.54600 sec = 726.3824
SECOND DIFF = -0.0006
(I) = 19235.7879
TABULAR (II) = 3721.1941
23.54600 sec = 0.1130
(II) = 3721.3072
TABULAR (III) = 1.7573
$N = (I) + (II)p^2 + (III)p^4$ = 19480.391 m

TABULAR (IV) = 232822.0968
23.54600 sec = -23.2234
SECOND DIFF = 0.0024
(IV) = 232798.8758
TABULAR (V) = 12.1012
23.54600 sec = -0.0219
(V) = 12.0792
TABULAR (VI) = -0.0287
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -59684.132 m
$E = E_0 + E'$ = 40315.868 m

TABULAR (XII) = 6593.4582
23.54600 sec = 0.8581
(XII) = 6594.3163
TABULAR (XIII) = 2.9535
$C = (XII)p + (XIII)p^3$ = -1690".67

$q = 10^{-6} E'$ = -0.05968413
TABULAR (XVI) = 0.012302
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00003757

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.05968413$
$\phi' = 41°15'31''.47492$

TABULAR	(VII) =	2225.2888
31.47492 sec	=	0.6806
	(VII) =	2225.9695
TABULAR	(VIII) =	33.1105
31.47492 sec	=	0.0165
	(VIII) =	33.1270

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 41°15'23''.54600$

TABULAR	(IX) =	42951.2496
31.47492 sec	=	5.7284
SECOND DIFF	=	-0.0011
	(IX) =	42956.9769
TABULAR	(X) =	446.0151
31.47492 sec	=	0.2251
	(X) =	446.2402
TABULAR	(XI) =	8.7682
31.47492 sec	=	0.0078
	(XI) =	8.7760

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 72°12'43''.75499$

TABULAR	(XIV) =	28319.7267
31.47492 sec	=	8.7053
SECOND DIFF	=	-0.0011
	(XIV) =	28328.4309
TABULAR	(XV) =	408.4377
31.47492 sec	=	0.2351
	(XV) =	408.6727

$C = (XIV)q - (XV)q^3 = -1690''.67$

TABULAR (XVI) = 0.012302
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00003757$

Transverse Mercator projection tables

RHODE ISLAND Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41° 5'	0.0000	30.848607	3718.2450	0.005010	1.769
	233412.7861	-0.982995	12.6611	-0.000935	-0.029
41° 6'	1850.9164	30.848697	3718.5456	0.004989	1.768
	233353.8064	-0.983326	12.6050	-0.000934	-0.029
41° 7'	3701.8382	30.848786	3718.8449	0.004968	1.766
	233294.8069	-0.983656	12.5489	-0.000934	-0.029
41° 8'	5552.7654	30.848876	3719.1429	0.004947	1.765
	233235.7875	-0.983987	12.4929	-0.000934	-0.029
41° 9'	7403.6980	30.848965	3719.4397	0.004926	1.764
	233176.7483	-0.984317	12.4368	-0.000933	-0.029
41°10'	9254.6359	30.849055	3719.7353	0.004905	1.763
	233117.6892	-0.984648	12.3808	-0.000933	-0.029
41°11'	11105.5792	30.849145	3720.0295	0.004884	1.762
	233058.6104	-0.984978	12.3249	-0.000933	-0.029
41°12'	12956.5279	30.849234	3720.3226	0.004863	1.761
	232999.5117	-0.985308	12.2689	-0.000932	-0.029
41°13'	14807.4819	30.849324	3720.6143	0.004842	1.760
	232940.3932	-0.985638	12.2130	-0.000932	-0.029
41°14'	16658.4413	30.849413	3720.9048	0.004821	1.758
	232881.2549	-0.985968	12.1571	-0.000932	-0.029
41°15'	18509.4061	30.849503	3721.1941	0.004800	1.757
	232822.0968	-0.986298	12.1012	-0.000931	-0.029
41°16'	20360.3763	30.849593	3721.4821	0.004779	1.756
	232762.9189	-0.986628	12.0453	-0.000931	-0.029
41°17'	22211.3519	30.849682	3721.7688	0.004758	1.755
	232703.7212	-0.986958	11.9894	-0.000930	-0.029
41°18'	24062.3328	30.849772	3722.0543	0.004737	1.754
	232644.5037	-0.987288	11.9336	-0.000930	-0.029
41°19'	25913.3191	30.849861	3722.3385	0.004716	1.753
	232585.2664	-0.987617	11.8778	-0.000930	-0.029
41°20'	27764.3108	30.849951	3722.6214	0.004695	1.752
	232526.0094	-0.987947	11.8220	-0.000929	-0.029
41°21'	29615.3078	30.850041	3722.9031	0.004674	1.750
	232466.7326	-0.988276	11.7663	-0.000929	-0.029
41°22'	31466.3103	30.850130	3723.1836	0.004653	1.749
	232407.4360	-0.988606	11.7105	-0.000929	-0.029
41°23'	33317.3181	30.850220	3723.4627	0.004632	1.748
	232348.1197	-0.988935	11.6548	-0.000928	-0.029
41°24'	35168.3313	30.850310	3723.7407	0.004611	1.747
	232288.7835	-0.989264	11.5991	-0.000928	-0.029
41°25'	37019.3499	30.850399	3724.0173	0.004590	1.746
	232229.4277	-0.989593	11.5434	-0.000928	-0.029
41°26'	38870.3738	30.850489	3724.2927	0.004569	1.745
	232170.0521	-0.989923	11.4878	-0.000927	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

RHODE ISLAND Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°27'	40721.4032	30.850579	3724.5668	0.004548	1.744
	232110.6567	-0.990252	11.4321	-0.000927	-0.029
41°28'	42572.4379	30.850668	3724.8397	0.004527	1.742
	232051.2416	-0.990580	11.3765	-0.000926	-0.029
41°29'	44423.4780	30.850758	3725.1113	0.004506	1.741
	231991.8068	-0.990909	11.3210	-0.000926	-0.029
41°30'	46274.5235	30.850848	3725.3817	0.004485	1.740
	231932.3523	-0.991238	11.2654	-0.000926	-0.029
41°31'	48125.5743	30.850937	3725.6508	0.004464	1.739
	231872.8780	-0.991567	11.2098	-0.000925	-0.029
41°32'	49976.6306	30.851027	3725.9186	0.004443	1.738
	231813.3840	-0.991895	11.1543	-0.000925	-0.029
41°33'	51827.6922	30.851117	3726.1852	0.004422	1.737
	231753.8703	-0.992224	11.0988	-0.000925	-0.029
41°34'	53678.7592	30.851207	3726.4505	0.004401	1.735
	231694.3369	-0.992552	11.0434	-0.000924	-0.029
41°35'	55529.8316	30.851296	3726.7146	0.004380	1.734
	231634.7837	-0.992880	10.9879	-0.000924	-0.029
41°36'	57380.9094	30.851386	3726.9774	0.004359	1.733
	231575.2109	-0.993209	10.9325	-0.000923	-0.029
41°37'	59231.9926	30.851476	3727.2389	0.004338	1.732
	231515.6184	-0.993537	10.8771	-0.000923	-0.029
41°38'	61083.0811	30.851566	3727.4992	0.004317	1.731
	231456.0062	-0.993865	10.8217	-0.000923	-0.029
41°39'	62934.1751	30.851655	3727.7582	0.004296	1.730
	231396.3743	-0.994193	10.7663	-0.000922	-0.029
41°40'	64785.2744	30.851745	3728.0159	0.004275	1.729
	231336.7227	-0.994521	10.7110	-0.000922	-0.029
41°41'	66636.3791	30.851835	3728.2724	0.004254	1.727
	231277.0515	-0.994849	10.6557	-0.000922	-0.029
41°42'	68487.4892	30.851925	3728.5277	0.004233	1.726
	231217.3605	-0.995176	10.6004	-0.000921	-0.029
41°43'	70338.6047	30.852015	3728.7816	0.004212	1.725
	231157.6500	-0.995504	10.5451	-0.000921	-0.029
41°44'	72189.7256	30.852104	3729.0343	0.004191	1.724
	231097.9197	-0.995832	10.4899	-0.000920	-0.029
41°45'	74040.8518	30.852194	3729.2858	0.004170	1.723
	231038.1698	-0.996159	10.4347	-0.000920	-0.029
41°46'	75891.9835	30.852284	3729.5360	0.004149	1.722
	230978.4003	-0.996487	10.3795	-0.000920	-0.029
41°47'	77743.1205	30.852374	3729.7849	0.004128	1.720
	230918.6111	-0.996814	10.3243	-0.000919	-0.029
41°48'	79594.2630	30.852464	3730.0325	0.004107	1.719
	230858.8022	-0.997141	10.2691	-0.000919	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

RHODE ISLAND — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°49'	81445.4108	30.852553	3730.2789	0.004086	1.718
	230798.9738	-0.997468	10.2140	-0.000918	-0.029
41°50'	83296.5640	30.852643	3730.5241	0.004065	1.717
	230739.1257	-0.997795	10.1589	-0.000918	-0.029
41°51'	85147.7226	30.852733	3730.7679	0.004044	1.716
	230679.2579	-0.998122	10.1038	-0.000918	-0.029
41°52'	86998.8866	30.852823	3731.0106	0.004023	1.715
	230619.3706	-0.998449	10.0487	-0.000917	-0.029
41°53'	88850.0560	30.852913	3731.2519	0.004001	1.713
	230559.4636	-0.998776	9.9937	-0.000917	-0.029
41°54'	90701.2307	30.853003	3731.4920	0.003980	1.712
	230499.5370	-0.999103	9.9387	-0.000917	-0.029
41°55'	92552.4109	30.853093	3731.7308	0.003959	1.711
	230439.5909	-0.999430	9.8837	-0.000916	-0.029
41°56'	94403.5964	30.853182	3731.9684	0.003938	1.710
	230379.6251	-0.999756	9.8287	-0.000916	-0.029
41°57'	96254.7874	30.853272	3732.2047	0.003917	1.709
	230319.6397	-1.000083	9.7738	-0.000915	-0.029
41°58'	98105.9837	30.853362	3732.4397	0.003896	1.708
	230259.6347	-1.000409	9.7189	-0.000915	-0.029
41°59'	99957.1855	30.853452	3732.6735	0.003875	1.706
	230199.6102	-1.000736	9.6640	-0.000915	-0.029
42° 0'	101808.3926	30.853542	3732.9060	0.003854	1.705
	230139.5660	-1.001062	9.6091	-0.000914	-0.029
42° 1'	103659.6051	30.853632	3733.1373	0.003833	1.704
	230079.5023	-1.001388	9.5542	-0.000914	-0.029
42° 2'	105510.8230	30.853722	3733.3673	0.003812	1.703
	230019.4190	-1.001714	9.4994	-0.000913	-0.029
42° 3'	107362.0463	30.853812	3733.5960	0.003791	1.702
	229959.3162	-1.002040	9.4446	-0.000913	-0.029
42° 4'	109213.2750	30.853902	3733.8234	0.003770	1.700
	229899.1938	-1.002366	9.3898	-0.000913	-0.029
42° 5'	111064.5091	30.853992	3734.0496	0.003749	1.699
	229839.0518	-1.002692	9.3350	-0.000912	-0.029
42° 6'	112915.7486	30.854082	3734.2746	0.003728	1.698
	229778.8903	-1.003018	9.2803	-0.000912	-0.029
42° 7'	114766.9935	30.854171	3734.4983	0.003707	1.697
	229718.7092	-1.003343	9.2256	-0.000911	-0.029
42° 8'	116618.2438	30.854261	3734.7207	0.003686	1.696
	229658.5086	-1.003669	9.1709	-0.000911	-0.029
42° 9'	118469.4995	30.854351	3734.9418	0.003665	1.695
	229598.2885	-1.003995	9.1163	-0.000911	-0.029
42°10'	120320.7606	30.854441	3735.1617	0.003644	1.693
	229538.0488	-1.004320	9.0616	-0.000910	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

RHODE ISLAND Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°11'	122172.0270	30.854531	3735.3803	0.003623	1.692
	229477.7896	-1.004645	9.0070	-0.000910	-0.029
42°12'	124023.2989	30.854621	3735.5977	0.003602	1.691
	229417.5108	-1.004971	8.9524	-0.000909	-0.029
42°13'	125874.5762	30.854711	3735.8138	0.003580	1.690
	229357.2126	-1.005296	8.8978	-0.000909	-0.029
42°14'	127725.8589	30.854801	3736.0286	0.003559	1.689
	229296.8949	-1.005621	8.8433	-0.000909	-0.029
42°15'	129577.1469	30.854891	3736.2421	0.003538	1.687
	229236.5576	-1.005946	8.7888	-0.000908	-0.029

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

RHODE ISLAND — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41° 5'	0.0000	30.848607	2212.3497	0.021516	32.798
	42842.5545	0.180473	441.7562	0.007053	8.622
41° 6'	1850.9164	30.848697	2213.6407	0.021527	32.829
	42853.3828	0.180625	442.1794	0.007063	8.636
41° 7'	3701.8382	30.848786	2214.9324	0.021538	32.860
	42864.2203	0.180777	442.6032	0.007073	8.651
41° 8'	5552.7654	30.848876	2216.2246	0.021549	32.891
	42875.0669	0.180929	443.0276	0.007083	8.665
41° 9'	7403.6980	30.848965	2217.5176	0.021560	32.922
	42885.9227	0.181082	443.4526	0.007093	8.680
41°10'	9254.6359	30.849055	2218.8111	0.021571	32.954
	42896.7876	0.181234	443.8782	0.007103	8.695
41°11'	11105.5792	30.849145	2220.1054	0.021581	32.985
	42907.6617	0.181387	444.3043	0.007113	8.709
41°12'	12956.5279	30.849234	2221.4003	0.021592	33.016
	42918.5449	0.181540	444.7311	0.007123	8.724
41°13'	14807.4819	30.849324	2222.6958	0.021603	33.048
	42929.4373	0.181693	445.1585	0.007133	8.739
41°14'	16658.4413	30.849413	2223.9920	0.021614	33.079
	42940.3389	0.181846	445.5865	0.007143	8.753
41°15'	18509.4061	30.849503	2225.2888	0.021625	33.110
	42951.2496	0.182000	446.0151	0.007153	8.768
41°16'	20360.3763	30.849593	2226.5863	0.021636	33.142
	42962.1696	0.182153	446.4442	0.007163	8.783
41°17'	22211.3519	30.849682	2227.8845	0.021647	33.173
	42973.0988	0.182307	446.8740	0.007173	8.798
41°18'	24062.3328	30.849772	2229.1833	0.021658	33.205
	42984.0372	0.182460	447.3044	0.007183	8.813
41°19'	25913.3191	30.849861	2230.4828	0.021669	33.237
	42994.9848	0.182614	447.7354	0.007193	8.828
41°20'	27764.3108	30.849951	2231.7829	0.021680	33.268
	43005.9417	0.182768	448.1670	0.007203	8.843
41°21'	29615.3078	30.850041	2233.0837	0.021691	33.300
	43016.9078	0.182923	448.5992	0.007214	8.858
41°22'	31466.3103	30.850130	2234.3852	0.021702	33.332
	43027.8832	0.183077	449.0320	0.007224	8.873
41°23'	33317.3181	30.850220	2235.6873	0.021713	33.363
	43038.8678	0.183232	449.4655	0.007234	8.888
41°24'	35168.3313	30.850310	2236.9900	0.021724	33.395
	43049.8617	0.183386	449.8995	0.007244	8.903
41°25'	37019.3499	30.850399	2238.2935	0.021735	33.427
	43060.8649	0.183541	450.3341	0.007254	8.918
41°26'	38870.3738	30.850489	2239.5976	0.021746	33.459
	43071.8773	0.183696	450.7694	0.007265	8.933

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

RHODE ISLAND Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°27'	40721.4032	30.850579	2240.9023	0.021757	33.491
	43082.8991	0.183851	451.2053	0.007275	8.948
41°28'	42572.4379	30.850668	2242.2078	0.021768	33.523
	43093.9302	0.184007	451.6418	0.007285	8.963
41°29'	44423.4780	30.850758	2243.5138	0.021779	33.555
	43104.9705	0.184162	452.0789	0.007295	8.978
41°30'	46274.5235	30.850848	2244.8206	0.021790	33.587
	43116.0203	0.184318	452.5166	0.007306	8.994
41°31'	48125.5743	30.850937	2246.1280	0.021801	33.619
	43127.0793	0.184473	452.9549	0.007316	9.009
41°32'	49976.6306	30.851027	2247.4361	0.021813	33.651
	43138.1477	0.184629	453.3939	0.007326	9.024
41°33'	51827.6922	30.851117	2248.7449	0.021824	33.683
	43149.2255	0.184785	453.8334	0.007337	9.039
41°34'	53678.7592	30.851207	2250.0543	0.021835	33.715
	43160.3126	0.184941	454.2736	0.007347	9.055
41°35'	55529.8316	30.851296	2251.3644	0.021846	33.747
	43171.4091	0.185098	454.7145	0.007357	9.070
41°36'	57380.9094	30.851386	2252.6752	0.021857	33.779
	43182.5149	0.185254	455.1559	0.007368	9.086
41°37'	59231.9926	30.851476	2253.9866	0.021868	33.812
	43193.6302	0.185411	455.5980	0.007378	9.101
41°38'	61083.0811	30.851566	2255.2987	0.021880	33.844
	43204.7548	0.185568	456.0406	0.007389	9.117
41°39'	62934.1751	30.851655	2256.6115	0.021891	33.876
	43215.8889	0.185725	456.4840	0.007399	9.132
41°40'	64785.2744	30.851745	2257.9249	0.021902	33.909
	43227.0324	0.185882	456.9279	0.007410	9.148
41°41'	66636.3791	30.851835	2259.2391	0.021913	33.941
	43238.1853	0.186039	457.3725	0.007420	9.163
41°42'	68487.4892	30.851925	2260.5539	0.021925	33.974
	43249.3476	0.186196	457.8177	0.007431	9.179
41°43'	70338.6047	30.852015	2261.8693	0.021936	34.006
	43260.5194	0.186354	458.2635	0.007441	9.195
41°44'	72189.7256	30.852104	2263.1855	0.021947	34.039
	43271.7006	0.186512	458.7100	0.007452	9.210
41°45'	74040.8518	30.852194	2264.5023	0.021958	34.071
	43282.8913	0.186670	459.1571	0.007462	9.226
41°46'	75891.9835	30.852284	2265.8198	0.021970	34.104
	43294.0915	0.186828	459.6048	0.007473	9.242
41°47'	77743.1205	30.852374	2267.1380	0.021981	34.137
	43305.3012	0.186986	460.0531	0.007483	9.258
41°48'	79594.2630	30.852464	2268.4569	0.021992	34.169
	43316.5203	0.187144	460.5021	0.007494	9.273

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

RHODE ISLAND Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°49'	81445.4108	30.852553	2269.7764	0.022004	34.202
	43327.7490	0.187303	460.9518	0.007505	9.289
41°50'	83296.5640	30.852643	2271.0966	0.022015	34.235
	43338.9871	0.187461	461.4021	0.007515	9.305
41°51'	85147.7226	30.852733	2272.4176	0.022026	34.268
	43350.2348	0.187620	461.8530	0.007526	9.321
41°52'	86998.8866	30.852823	2273.7391	0.022038	34.300
	43361.4920	0.187779	462.3045	0.007537	9.337
41°53'	88850.0560	30.852913	2275.0614	0.022049	34.333
	43372.7588	0.187938	462.7567	0.007547	9.353
41°54'	90701.2307	30.853003	2276.3844	0.022061	34.366
	43384.0351	0.188098	463.2095	0.007558	9.369
41°55'	92552.4109	30.853093	2277.7080	0.022072	34.399
	43395.3209	0.188257	463.6630	0.007569	9.385
41°56'	94403.5964	30.853182	2279.0323	0.022084	34.432
	43406.6163	0.188417	464.1171	0.007579	9.401
41°57'	96254.7874	30.853272	2280.3573	0.022095	34.465
	43417.9213	0.188576	464.5719	0.007590	9.417
41°58'	98105.9837	30.853362	2281.6830	0.022106	34.499
	43429.2359	0.188736	465.0273	0.007601	9.433
41°59'	99957.1855	30.853452	2283.0094	0.022118	34.532
	43440.5601	0.188896	465.4834	0.007612	9.450
42° 0'	101808.3926	30.853542	2284.3365	0.022129	34.565
	43451.8939	0.189057	465.9401	0.007623	9.466
42° 1'	103659.6051	30.853632	2285.6643	0.022141	34.598
	43463.2373	0.189217	466.3975	0.007634	9.482
42° 2'	105510.8230	30.853722	2286.9927	0.022152	34.631
	43474.5903	0.189377	466.8555	0.007644	9.498
42° 3'	107362.0463	30.853812	2288.3219	0.022164	34.665
	43485.9529	0.189538	467.3142	0.007655	9.515
42° 4'	109213.2750	30.853902	2289.6517	0.022175	34.698
	43497.3252	0.189699	467.7735	0.007666	9.531
42° 5'	111064.5091	30.853992	2290.9822	0.022187	34.731
	43508.7072	0.189860	468.2335	0.007677	9.547
42° 6'	112915.7486	30.854082	2292.3135	0.022199	34.765
	43520.0988	0.190021	468.6941	0.007688	9.564
42° 7'	114766.9935	30.854171	2293.6454	0.022210	34.798
	43531.5000	0.190183	469.1554	0.007699	9.580
42° 8'	116618.2438	30.854261	2294.9780	0.022222	34.832
	43542.9110	0.190344	469.6173	0.007710	9.597
42° 9'	118469.4995	30.854351	2296.3113	0.022233	34.865
	43554.3316	0.190506	470.0799	0.007721	9.613
42°10'	120320.7606	30.854441	2297.6453	0.022245	34.899
	43565.7620	0.190668	470.5432	0.007732	9.630

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

RHODE ISLAND — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°11'	122172.0270	30.854531	2298.9800	0.022257	34.933
	43577.2020	0.190830	471.0071	0.007743	9.647
42°12'	124023.2989	30.854621	2300.3154	0.022268	34.966
	43588.6518	0.190992	471.4717	0.007754	9.663
42°13'	125874.5762	30.854711	2301.6515	0.022280	35.000
	43600.1113	0.191154	471.9370	0.007765	9.680
42°14'	127725.8589	30.854801	2302.9883	0.022292	35.034
	43611.5806	0.191316	472.4029	0.007776	9.697
42°15'	129577.1469	30.854891	2304.3258	0.022303	35.067
	43623.0595	0.191479	472.8695	0.007788	9.713

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

RHODE ISLAND Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41° 5'	0.0000	30.848607	6571.5602	0.036538	2.959	
			28154.2424	0.275178	403.989	0.012302
41° 6'	1850.9164	30.848697	6573.7525	0.036529	2.958	
			28170.7531	0.275318	404.432	0.012302
41° 7'	3701.8382	30.848786	6575.9442	0.036520	2.958	
			28187.2721	0.275457	404.874	0.012302
41° 8'	5552.7654	30.848876	6578.1354	0.036511	2.957	
			28203.7996	0.275597	405.318	0.012302
41° 9'	7403.6980	30.848965	6580.3260	0.036501	2.957	
			28220.3354	0.275737	405.762	0.012302
41°10'	9254.6359	30.849055	6582.5161	0.036492	2.956	
			28236.8796	0.275877	406.206	0.012302
41°11'	11105.5792	30.849145	6584.7056	0.036483	2.956	
			28253.4322	0.276017	406.651	0.012302
41°12'	12956.5279	30.849234	6586.8946	0.036473	2.955	
			28269.9932	0.276157	407.097	0.012302
41°13'	14807.4819	30.849324	6589.0830	0.036464	2.955	
			28286.5626	0.276297	407.543	0.012302
41°14'	16658.4413	30.849413	6591.2709	0.036455	2.954	
			28303.1404	0.276438	407.990	0.012302
41°15'	18509.4061	30.849503	6593.4582	0.036446	2.954	
			28319.7267	0.276579	408.438	0.012302
41°16'	20360.3763	30.849593	6595.6449	0.036436	2.953	
			28336.3214	0.276720	408.886	0.012302
41°17'	22211.3519	30.849682	6597.8311	0.036427	2.952	
			28352.9246	0.276861	409.334	0.012302
41°18'	24062.3328	30.849772	6600.0167	0.036418	2.952	
			28369.5362	0.277002	409.784	0.012302
41°19'	25913.3191	30.849861	6602.2017	0.036408	2.951	
			28386.1564	0.277143	410.234	0.012302
41°20'	27764.3108	30.849951	6604.3862	0.036399	2.951	
			28402.7849	0.277285	410.684	0.012302
41°21'	29615.3078	30.850041	6606.5702	0.036390	2.950	
			28419.4220	0.277426	411.135	0.012302
41°22'	31466.3103	30.850130	6608.7536	0.036380	2.950	
			28436.0676	0.277568	411.587	0.012302
41°23'	33317.3181	30.850220	6610.9364	0.036371	2.949	
			28452.7217	0.277710	412.039	0.012302
41°24'	35168.3313	30.850310	6613.1187	0.036362	2.949	
			28469.3843	0.277852	412.492	0.012302
41°25'	37019.3499	30.850399	6615.3004	0.036352	2.948	
			28486.0555	0.277995	412.945	0.012301
41°26'	38870.3738	30.850489	6617.4815	0.036343	2.947	
			28502.7351	0.278137	413.399	0.012301

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

RHODE ISLAND Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°27'	40721.4032	30.850579	6619.6621	0.036334	2.947	
			28519.4234	0.278280	413.854	0.012301
41°28'	42572.4379	30.850668	6621.8421	0.036324	2.946	
			28536.1202	0.278422	414.309	0.012301
41°29'	44423.4780	30.850758	6624.0216	0.036315	2.946	
			28552.8255	0.278565	414.765	0.012301
41°30'	46274.5235	30.850848	6626.2005	0.036306	2.945	
			28569.5394	0.278708	415.222	0.012301
41°31'	48125.5743	30.850937	6628.3788	0.036296	2.945	
			28586.2619	0.278852	415.679	0.012301
41°32'	49976.6306	30.851027	6630.5566	0.036287	2.944	
			28602.9930	0.278995	416.137	0.012301
41°33'	51827.6922	30.851117	6632.7338	0.036278	2.944	
			28619.7327	0.279139	416.595	0.012301
41°34'	53678.7592	30.851207	6634.9105	0.036268	2.943	
			28636.4811	0.279282	417.054	0.012301
41°35'	55529.8316	30.851296	6637.0866	0.036259	2.942	
			28653.2380	0.279426	417.514	0.012301
41°36'	57380.9094	30.851386	6639.2621	0.036250	2.942	
			28670.0036	0.279570	417.974	0.012301
41°37'	59231.9926	30.851476	6641.4371	0.036240	2.941	
			28686.7778	0.279714	418.434	0.012301
41°38'	61083.0811	30.851566	6643.6115	0.036231	2.941	
			28703.5607	0.279859	418.896	0.012301
41°39'	62934.1751	30.851655	6645.7854	0.036221	2.940	
			28720.3522	0.280003	419.358	0.012301
41°40'	64785.2744	30.851745	6647.9587	0.036212	2.939	
			28737.1524	0.280148	419.821	0.012301
41°41'	66636.3791	30.851835	6650.1314	0.036203	2.939	
			28753.9613	0.280293	420.284	0.012301
41°42'	68487.4892	30.851925	6652.3035	0.036193	2.938	
			28770.7789	0.280438	420.748	0.012301
41°43'	70338.6047	30.852015	6654.4751	0.036184	2.938	
			28787.6051	0.280583	421.212	0.012301
41°44'	72189.7256	30.852104	6656.6462	0.036175	2.937	
			28804.4401	0.280728	421.677	0.012301
41°45'	74040.8518	30.852194	6658.8167	0.036165	2.937	
			28821.2838	0.280874	422.143	0.012301
41°46'	75891.9835	30.852284	6660.9866	0.036156	2.936	
			28838.1362	0.281019	422.610	0.012300
41°47'	77743.1205	30.852374	6663.1559	0.036146	2.935	
			28854.9974	0.281165	423.077	0.012300
41°48'	79594.2630	30.852464	6665.3247	0.036137	2.935	
			28871.8673	0.281311	423.544	0.012300

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

RHODE ISLAND Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°49'	81445.4108	30.852553	6667.4929	0.036128	2.934	
			28888.7460	0.281457	424.013	0.012300
41°50'	83296.5640	30.852643	6669.6606	0.036118	2.934	
			28905.6334	0.281604	424.481	0.012300
41°51'	85147.7226	30.852733	6671.8277	0.036109	2.933	
			28922.5296	0.281750	424.951	0.012300
41°52'	86998.8866	30.852823	6673.9942	0.036099	2.932	
			28939.4346	0.281897	425.421	0.012300
41°53'	88850.0560	30.852913	6676.1602	0.036090	2.932	
			28956.3484	0.282043	425.892	0.012300
41°54'	90701.2307	30.853003	6678.3256	0.036081	2.931	
			28973.2710	0.282190	426.363	0.012300
41°55'	92552.4109	30.853093	6680.4904	0.036071	2.931	
			28990.2024	0.282337	426.835	0.012300
41°56'	94403.5964	30.853182	6682.6547	0.036062	2.930	
			29007.1427	0.282485	427.308	0.012300
41°57'	96254.7874	30.853272	6684.8184	0.036052	2.929	
			29024.0918	0.282632	427.782	0.012300
41°58'	98105.9837	30.853362	6686.9815	0.036043	2.929	
			29041.0497	0.282780	428.256	0.012300
41°59'	99957.1855	30.853452	6689.1441	0.036033	2.928	
			29058.0165	0.282927	428.730	0.012300
42° 0'	101808.3926	30.853542	6691.3061	0.036024	2.928	
			29074.9921	0.283075	429.205	0.012300
42° 1'	103659.6051	30.853632	6693.4675	0.036015	2.927	
			29091.9766	0.283223	429.681	0.012300
42° 2'	105510.8230	30.853722	6695.6284	0.036005	2.926	
			29108.9700	0.283372	430.158	0.012300
42° 3'	107362.0463	30.853812	6697.7887	0.035996	2.926	
			29125.9723	0.283520	430.635	0.012300
42° 4'	109213.2750	30.853902	6699.9484	0.035986	2.925	
			29142.9835	0.283669	431.113	0.012300
42° 5'	111064.5091	30.853992	6702.1076	0.035977	2.925	
			29160.0036	0.283817	431.591	0.012300
42° 6'	112915.7486	30.854082	6704.2662	0.035967	2.924	
			29177.0327	0.283966	432.071	0.012299
42° 7'	114766.9935	30.854171	6706.4242	0.035958	2.923	
			29194.0707	0.284115	432.550	0.012299
42° 8'	116618.2438	30.854261	6708.5817	0.035948	2.923	
			29211.1176	0.284265	433.031	0.012299
42° 9'	118469.4995	30.854351	6710.7386	0.035939	2.922	
			29228.1734	0.284414	433.512	0.012299
42°10'	120320.7606	30.854441	6712.8949	0.035929	2.922	
			29245.2383	0.284564	433.994	0.012299

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

RHODE ISLAND Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°11'	122172.0270	30.854531	6715.0507	0.035920	2.921	
			29262.3121	0.284713	434.476	0.012299
42°12'	124023.2989	30.854621	6717.2059	0.035910	2.920	
			29279.3949	0.284863	434.959	0.012299
42°13'	125874.5762	30.854711	6719.3605	0.035901	2.920	
			29296.4867	0.285013	435.443	0.012299
42°14'	127725.8589	30.854801	6721.5146	0.035892	2.919	
			29313.5875	0.285163	435.927	0.012299
42°15'	129577.1469	30.854891	6723.6681	0.035882	2.918	
			29330.6973	0.285314	436.412	0.012299

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.001	-0.0011

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is SOUTH CAROLINA

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 31° 50' (latitude of grid origin)
λ_{CM} = 81 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 32 30 (southern standard parallel)
ϕ_n = 34 50 (northern standard parallel)
E_o = 609600.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.554399350127 = \sin(\phi_o)$
K = 13520786.8598 m (mapping radius at the equator)
R_b = 9786198.7935 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	33 40 0.00000 81 30 0.00000	9582889.475 m -0 16 37.91883	-0.0048380281 0.9999882967	563237.711 m 203421.470 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	659600.000 m 210000.000 m	50000.000 m 9576198.794 m	9576329.3246 m 0 17 56.95619	33 43 32.9649 80 27 37.4360

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
31° 50'	9786198.794	30.81026	1.00030116
31 51	9784350.178	30.81006	1.00029202
31 52	9782501.575	30.80986	1.00028296
31 53	9780652.983	30.80967	1.00027398
31 54	9778804.403	30.80948	1.00026508
31 55	9776955.834	30.80929	1.00025627
31 56	9775107.277	30.80910	1.00024754
31 57	9773258.731	30.80892	1.00023889
31 58	9771410.196	30.80873	1.00023033
31 59	9769561.672	30.80855	1.00022185
32 0	9767713.159	30.80838	1.00021345
32 1	9765864.656	30.80820	1.00020513
32 2	9764016.164	30.80803	1.00019690
32 3	9762167.682	30.80786	1.00018874
32 4	9760319.210	30.80770	1.00018068
32 5	9758470.748	30.80753	1.00017269
32 6	9756622.296	30.80737	1.00016479
32 7	9754773.854	30.80722	1.00015697
32 8	9752925.421	30.80706	1.00014923
32 9	9751076.997	30.80691	1.00014158
32 10	9749228.583	30.80676	1.00013400
32 11	9747380.178	30.80661	1.00012652
32 12	9745531.781	30.80646	1.00011911
32 13	9743683.393	30.80632	1.00011179
32 14	9741835.014	30.80618	1.00010455
32 15	9739986.643	30.80604	1.00009739
32 16	9738138.281	30.80591	1.00009032
32 17	9736289.927	30.80577	1.00008333
32 18	9734441.580	30.80564	1.00007642
32 19	9732593.242	30.80552	1.00006959
32 20	9730744.911	30.80539	1.00006285
32 21	9728896.587	30.80527	1.00005619
32 22	9727048.271	30.80515	1.00004962
32 23	9725199.962	30.80503	1.00004312
32 24	9723351.661	30.80492	1.00003671
32 25	9721503.366	30.80480	1.00003039
32 26	9719655.077	30.80470	1.00002414
32 27	9717806.796	30.80459	1.00001798
32 28	9715958.520	30.80448	1.00001191
32 29	9714110.251	30.80438	1.00000591

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
32° 30'	9712261.988	30.80428	1.00000000
32 31	9710413.731	30.80419	0.99999417
32 32	9708565.480	30.80409	0.99998843
32 33	9706717.234	30.80400	0.99998277
32 34	9704868.994	30.80391	0.99997719
32 35	9703020.760	30.80383	0.99997169
32 36	9701172.530	30.80374	0.99996628
32 37	9699324.305	30.80366	0.99996095
32 38	9697476.086	30.80358	0.99995571
32 39	9695627.871	30.80351	0.99995054
32 40	9693779.660	30.80343	0.99994546
32 41	9691931.454	30.80336	0.99994047
32 42	9690083.252	30.80330	0.99993556
32 43	9688235.055	30.80323	0.99993073
32 44	9686386.861	30.80317	0.99992598
32 45	9684538.671	30.80311	0.99992132
32 46	9682690.484	30.80305	0.99991674
32 47	9680842.301	30.80299	0.99991224
32 48	9678994.122	30.80294	0.99990783
32 49	9677145.945	30.80289	0.99990350
32 50	9675297.772	30.80284	0.99989926
32 51	9673449.601	30.80280	0.99989509
32 52	9671601.433	30.80276	0.99989101
32 53	9669753.268	30.80272	0.99988702
32 54	9667905.105	30.80268	0.99988311
32 55	9666056.944	30.80265	0.99987928
32 56	9664208.785	30.80261	0.99987553
32 57	9662360.628	30.80259	0.99987187
32 58	9660512.473	30.80256	0.99986830
32 59	9658664.319	30.80253	0.99986480
33 0	9656816.167	30.80251	0.99986139
33 1	9654968.017	30.80249	0.99985806
33 2	9653119.867	30.80248	0.99985482
33 3	9651271.718	30.80246	0.99985166
33 4	9649423.570	30.80245	0.99984858
33 5	9647575.423	30.80245	0.99984559
33 6	9645727.276	30.80244	0.99984268
33 7	9643879.130	30.80244	0.99983986
33 8	9642030.984	30.80244	0.99983712
33 9	9640182.838	30.80244	0.99983446

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
33° 10'	9638334.692	30.80244	0.99983188
33 11	9636486.545	30.80245	0.99982939
33 12	9634638.398	30.80246	0.99982699
33 13	9632790.251	30.80247	0.99982466
33 14	9630942.102	30.80249	0.99982242
33 15	9629093.953	30.80250	0.99982027
33 16	9627245.803	30.80252	0.99981820
33 17	9625397.652	30.80255	0.99981621
33 18	9623549.499	30.80257	0.99981430
33 19	9621701.344	30.80260	0.99981248
33 20	9619853.188	30.80263	0.99981075
33 21	9618005.031	30.80266	0.99980910
33 22	9616156.871	30.80270	0.99980753
33 23	9614308.709	30.80274	0.99980604
33 24	9612460.545	30.80278	0.99980464
33 25	9610612.378	30.80282	0.99980333
33 26	9608764.208	30.80287	0.99980209
33 27	9606916.036	30.80292	0.99980094
33 28	9605067.861	30.80297	0.99979988
33 29	9603219.683	30.80302	0.99979890
33 30	9601371.502	30.80308	0.99979800
33 31	9599523.317	30.80314	0.99979719
33 32	9597675.129	30.80320	0.99979646
33 33	9595826.937	30.80327	0.99979582
33 34	9593978.741	30.80333	0.99979525
33 35	9592130.541	30.80340	0.99979478
33 36	9590282.337	30.80347	0.99979439
33 37	9588434.128	30.80355	0.99979408
33 38	9586585.915	30.80363	0.99979385
33 39	9584737.698	30.80371	0.99979371
33 40	9582889.475	30.80379	0.99979366
33 41	9581041.248	30.80388	0.99979369
33 42	9579193.015	30.80396	0.99979380
33 43	9577344.777	30.80405	0.99979400
33 44	9575496.534	30.80415	0.99979428
33 45	9573648.285	30.80424	0.99979464
33 46	9571800.031	30.80434	0.99979509
33 47	9569951.770	30.80444	0.99979563
33 48	9568103.504	30.80455	0.99979625
33 49	9566255.231	30.80465	0.99979695

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
33° 50'	9564406.952	30.80476	0.99979774
33 51	9562558.666	30.80487	0.99979861
33 52	9560710.374	30.80499	0.99979956
33 53	9558862.074	30.80510	0.99980060
33 54	9557013.768	30.80522	0.99980173
33 55	9555165.455	30.80535	0.99980294
33 56	9553317.134	30.80547	0.99980423
33 57	9551468.806	30.80560	0.99980561
33 58	9549620.470	30.80573	0.99980707
33 59	9547772.126	30.80586	0.99980862
34 0	9545923.775	30.80600	0.99981025
34 1	9544075.415	30.80613	0.99981197
34 2	9542227.047	30.80627	0.99981377
34 3	9540378.671	30.80642	0.99981565
34 4	9538530.286	30.80656	0.99981762
34 5	9536681.892	30.80671	0.99981968
34 6	9534833.489	30.80686	0.99982182
34 7	9532985.077	30.80702	0.99982404
34 8	9531136.657	30.80717	0.99982635
34 9	9529288.226	30.80733	0.99982874
34 10	9527439.786	30.80749	0.99983122
34 11	9525591.337	30.80766	0.99983378
34 12	9523742.878	30.80782	0.99983643
34 13	9521894.408	30.80799	0.99983916
34 14	9520045.929	30.80816	0.99984198
34 15	9518197.439	30.80834	0.99984488
34 16	9516348.939	30.80852	0.99984787
34 17	9514500.428	30.80870	0.99985094
34 18	9512651.906	30.80888	0.99985409
34 19	9510803.373	30.80906	0.99985733
34 20	9508954.829	30.80925	0.99986066
34 21	9507106.274	30.80944	0.99986407
34 22	9505257.708	30.80963	0.99986757
34 23	9503409.130	30.80983	0.99987115
34 24	9501560.540	30.81003	0.99987481
34 25	9499711.938	30.81023	0.99987856
34 26	9497863.325	30.81043	0.99988240
34 27	9496014.699	30.81064	0.99988632
34 28	9494166.060	30.81085	0.99989032
34 29	9492317.409	30.81106	0.99989441

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
34° 30'	9490468.746	30.81127	0.99989859
34 31	9488620.069	30.81149	0.99990285
34 32	9486771.380	30.81171	0.99990720
34 33	9484922.677	30.81193	0.99991163
34 34	9483073.961	30.81216	0.99991614
34 35	9481225.232	30.81238	0.99992075
34 36	9479376.489	30.81261	0.99992543
34 37	9477527.732	30.81285	0.99993020
34 38	9475678.961	30.81308	0.99993506
34 39	9473830.176	30.81332	0.99994000
34 40	9471981.377	30.81356	0.99994503
34 41	9470132.563	30.81380	0.99995014
34 42	9468283.735	30.81405	0.99995534
34 43	9466434.892	30.81430	0.99996063
34 44	9464586.034	30.81455	0.99996599
34 45	9462737.161	30.81480	0.99997145
34 46	9460888.273	30.81506	0.99997699
34 47	9459039.369	30.81532	0.99998261
34 48	9457190.450	30.81558	0.99998832
34 49	9455341.515	30.81585	0.99999412
34 50	9453492.564	30.81611	1.00000000
34 51	9451643.597	30.81638	1.00000597
34 52	9449794.614	30.81666	1.00001202
34 53	9447945.615	30.81693	1.00001816
34 54	9446096.599	30.81721	1.00002438
34 55	9444247.566	30.81749	1.00003069
34 56	9442398.517	30.81777	1.00003708
34 57	9440549.451	30.81806	1.00004356
34 58	9438700.367	30.81835	1.00005013
34 59	9436851.267	30.81864	1.00005678
35 0	9435002.148	30.81893	1.00006352
35 1	9433153.012	30.81923	1.00007034
35 2	9431303.859	30.81953	1.00007725
35 3	9429454.687	30.81983	1.00008424
35 4	9427605.498	30.82013	1.00009132
35 5	9425756.290	30.82044	1.00009849
35 6	9423907.063	30.82075	1.00010574
35 7	9422057.818	30.82106	1.00011308
35 8	9420208.555	30.82138	1.00012050
35 9	9418359.272	30.82169	1.00012801

Lambert conformal conic projection tables
SOUTH CAROLINA

Lat	R (meters)	tab diff.	k
35° 10'	9416509.970	30.82201	1.00013560
35 11	9414660.650	30.82234	1.00014328
35 12	9412811.309	30.82266	1.00015105
35 13	9410961.950	30.82299	1.00015890
35 14	9409112.570	30.82332	1.00016684
35 15	9407263.171	30.82366	1.00017486
35 16	9405413.751	30.82399	1.00018297
35 17	9403564.312	30.82433	1.00019117
35 18	9401714.852	30.82467	1.00019945
35 19	9399865.371	30.82502	1.00020782
35 20	9398015.870	30.82536	1.00021627
35 21	9396166.349	30.82571	1.00022482
35 22	9394316.806	30.82607	1.00023344
35 23	9392467.242	30.82642	1.00024215
35 24	9390617.656	30.82678	1.00025095
35 25	9388768.050	30.82714	1.00025984
35 26	9386918.421	30.82750	1.00026881
35 27	9385068.771	30.82787	1.00027787
35 28	9383219.099	30.82824	1.00028701
35 29	9381369.405	30.82861	1.00029624
35 30	9379519.688	30.82898	1.00030556

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is SOUTH DAKOTA NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 43° 50' (latitude of grid origin)
λ_{CM} = 100 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 44 25 (southern standard parallel)
ϕ_n = 45 41 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.707738185595 = $\sin(\phi_o)$
K = 11870154.6246 m (mapping radius at the equator)
R_b = 6512395.0582 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_o$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	45 3 0.00000 100 30 0.00000	6377196.131 m -0 21 13.92873	-0.0061761415 0.9999809275	560613.534 m 135320.557 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	640000.000 m 140000.000 m	40000.000 m 6372395.058 m	6372520.5985 m 0 21 34.72260	45 5 31.4664 99 29 30.6193

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
SOUTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
43° 50'	6512395.058	30.86858	1.00016269
43 51	6510542.943	30.86849	1.00015663
43 52	6508690.834	30.86839	1.00015065
43 53	6506838.731	30.86830	1.00014476
43 54	6504986.633	30.86821	1.00013895
43 55	6503134.540	30.86813	1.00013323
43 56	6501282.452	30.86805	1.00012758
43 57	6499430.369	30.86797	1.00012202
43 58	6497578.291	30.86789	1.00011654
43 59	6495726.218	30.86781	1.00011115
44 0	6493874.149	30.86774	1.00010583
44 1	6492022.084	30.86767	1.00010060
44 2	6490170.024	30.86761	1.00009546
44 3	6488317.968	30.86754	1.00009039
44 4	6486465.915	30.86748	1.00008541
44 5	6484613.866	30.86742	1.00008051
44 6	6482761.821	30.86736	1.00007570
44 7	6480909.780	30.86731	1.00007096
44 8	6479057.741	30.86726	1.00006631
44 9	6477205.706	30.86721	1.00006175
44 10	6475353.673	30.86716	1.00005727
44 11	6473501.644	30.86712	1.00005287
44 12	6471649.617	30.86707	1.00004855
44 13	6469797.592	30.86704	1.00004431
44 14	6467945.570	30.86700	1.00004016
44 15	6466093.550	30.86697	1.00003610
44 16	6464241.532	30.86693	1.00003211
44 17	6462389.516	30.86691	1.00002821
44 18	6460537.502	30.86688	1.00002439
44 19	6458685.489	30.86686	1.00002066
44 20	6456833.478	30.86683	1.00001701
44 21	6454981.468	30.86682	1.00001344
44 22	6453129.459	30.86680	1.00000995
44 23	6451277.451	30.86679	1.00000655
44 24	6449425.443	30.86678	1.00000323
44 25	6447573.437	30.86677	1.00000000
44 26	6445721.431	30.86676	0.99999685
44 27	6443869.425	30.86676	0.99999378
44 28	6442017.419	30.86676	0.99999080
44 29	6440165.414	30.86676	0.99998790

Lambert conformal conic projection tables
SOUTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
44° 30'	6438313.408	30.86677	0.99998508
44 31	6436461.402	30.86677	0.99998234
44 32	6434609.396	30.86678	0.99997969
44 33	6432757.388	30.86680	0.99997713
44 34	6430905.381	30.86681	0.99997465
44 35	6429053.372	30.86683	0.99997225
44 36	6427201.362	30.86685	0.99996993
44 37	6425349.351	30.86687	0.99996770
44 38	6423497.339	30.86690	0.99996555
44 39	6421645.325	30.86693	0.99996349
44 40	6419793.310	30.86696	0.99996150
44 41	6417941.292	30.86699	0.99995961
44 42	6416089.273	30.86703	0.99995779
44 43	6414237.251	30.86706	0.99995606
44 44	6412385.228	30.86710	0.99995442
44 45	6410533.201	30.86715	0.99995286
44 46	6408681.172	30.86719	0.99995138
44 47	6406829.141	30.86724	0.99994998
44 48	6404977.106	30.86729	0.99994867
44 49	6403125.068	30.86735	0.99994745
44 50	6401273.028	30.86740	0.99994631
44 51	6399420.983	30.86746	0.99994525
44 52	6397568.935	30.86753	0.99994427
44 53	6395716.884	30.86759	0.99994338
44 54	6393864.829	30.86766	0.99994258
44 55	6392012.769	30.86773	0.99994186
44 56	6390160.706	30.86780	0.99994122
44 57	6388308.638	30.86787	0.99994067
44 58	6386456.565	30.86795	0.99994020
44 59	6384604.488	30.86803	0.99993981
45 0	6382752.407	30.86811	0.99993951
45 1	6380900.320	30.86820	0.99993929
45 2	6379048.228	30.86829	0.99993916
45 3	6377196.131	30.86838	0.99993911
45 4	6375344.028	30.86847	0.99993915
45 5	6373491.920	30.86856	0.99993927
45 6	6371639.806	30.86866	0.99993947
45 7	6369787.687	30.86876	0.99993976
45 8	6367935.561	30.86887	0.99994014
45 9	6366083.429	30.86897	0.99994059

Lambert conformal conic projection tables
SOUTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
45° 10'	6364231.291	30.86908	0.99994114
45 11	6362379.146	30.86919	0.99994176
45 12	6360526.994	30.86931	0.99994248
45 13	6358674.836	30.86942	0.99994327
45 14	6356822.671	30.86954	0.99994415
45 15	6354970.498	30.86966	0.99994512
45 16	6353118.318	30.86979	0.99994617
45 17	6351266.131	30.86991	0.99994730
45 18	6349413.936	30.87004	0.99994852
45 19	6347561.734	30.87017	0.99994983
45 20	6345709.523	30.87031	0.99995122
45 21	6343857.305	30.87045	0.99995269
45 22	6342005.078	30.87059	0.99995425
45 23	6340152.843	30.87073	0.99995589
45 24	6338300.599	30.87087	0.99995762
45 25	6336448.347	30.87102	0.99995943
45 26	6334596.085	30.87117	0.99996133
45 27	6332743.815	30.87133	0.99996331
45 28	6330891.535	30.87148	0.99996538
45 29	6329039.247	30.87164	0.99996753
45 30	6327186.948	30.87180	0.99996977
45 31	6325334.640	30.87196	0.99997209
45 32	6323482.322	30.87213	0.99997450
45 33	6321629.995	30.87230	0.99997699
45 34	6319777.657	30.87247	0.99997957
45 35	6317925.309	30.87264	0.99998223
45 36	6316072.950	30.87282	0.99998498
45 37	6314220.581	30.87300	0.99998781
45 38	6312368.201	30.87318	0.99999073
45 39	6310515.810	30.87337	0.99999374
45 40	6308663.408	30.87355	0.99999683
45 41	6306810.995	30.87374	1.00000000
45 42	6304958.570	30.87394	1.00000326
45 43	6303106.134	30.87413	1.00000660
45 44	6301253.686	30.87433	1.00001003
45 45	6299401.227	30.87453	1.00001355
45 46	6297548.755	30.87473	1.00001715
45 47	6295696.271	30.87494	1.00002084
45 48	6293843.775	30.87515	1.00002461
45 49	6291991.266	30.87536	1.00002847

Lambert conformal conic projection tables
SOUTH DAKOTA NORTH

Lat	R (meters)	tab diff.	k
45° 50'	6290138.745	30.87557	1.00003241
45 51	6288286.210	30.87579	1.00003644
45 52	6286433.663	30.87600	1.00004055
45 53	6284581.103	30.87623	1.00004475
45 54	6282728.530	30.87645	1.00004904
45 55	6280875.942	30.87668	1.00005341
45 56	6279023.342	30.87691	1.00005787
45 57	6277170.728	30.87714	1.00006241
45 58	6275318.099	30.87737	1.00006704
45 59	6273465.457	30.87761	1.00007175
46 0	6271612.800	30.87785	1.00007655
46 1	6269760.129	30.87809	1.00008144
46 2	6267907.444	30.87834	1.00008641
46 3	6266054.743	30.87859	1.00009147
46 4	6264202.028	30.87884	1.00009661
46 5	6262349.298	30.87909	1.00010184
46 6	6260496.553	30.87935	1.00010715
46 7	6258643.792	30.87960	1.00011256
46 8	6256791.016	30.87987	1.00011804
46 9	6254938.224	30.88013	1.00012362
46 10	6253085.416	30.88040	1.00012928
46 11	6251232.592	30.88067	1.00013502
46 12	6249379.752	30.88094	1.00014085
46 13	6247526.896	30.88121	1.00014677
46 14	6245674.023	30.88149	1.00015278
46 15	6243821.134	30.88177	1.00015887
46 16	6241968.228	30.88205	1.00016504
46 17	6240115.305	30.88234	1.00017131
46 18	6238262.365	30.88262	1.00017766
46 19	6236409.407	30.88291	1.00018409
46 20	6234556.432	30.88321	1.00019061

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is SOUTH DAKOTA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 42° 20' (latitude of grid origin)
λ_{CM} = 100 20 (longitude of origin and Central Meridian, CM)
ϕ_s = 42 50 (southern standard parallel)
ϕ_n = 44 24 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.689851962794 = $\sin(\phi.)$
K = 11991572.8665 m (mapping radius at the equator)
R_b = 6846221.9383 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	43 37 0.00000 100 50 0.00000	6703654.962 m -0 20 41.73353	-0.0060200577 0.9999818793	559643.610 m 142688.451 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 150000.000 m	50000.000 m 6696221.938 m	6696408.6082 m 0 25 40.12946	43 40 54.8158 99 42 47.4493

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
SOUTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
42° 20'	6846221.938	30.86024	1.00015575
42 21	6844370.324	30.86013	1.00014936
42 22	6842518.716	30.86003	1.00014305
42 23	6840667.114	30.85993	1.00013682
42 24	6838815.518	30.85983	1.00013067
42 25	6836963.928	30.85974	1.00012461
42 26	6835112.344	30.85964	1.00011863
42 27	6833260.765	30.85955	1.00011274
42 28	6831409.192	30.85946	1.00010692
42 29	6829557.624	30.85938	1.00010119
42 30	6827706.061	30.85930	1.00009554
42 31	6825854.504	30.85922	1.00008998
42 32	6824002.951	30.85914	1.00008449
42 33	6822151.402	30.85906	1.00007909
42 34	6820299.859	30.85899	1.00007378
42 35	6818448.319	30.85892	1.00006854
42 36	6816596.784	30.85885	1.00006339
42 37	6814745.253	30.85879	1.00005832
42 38	6812893.726	30.85873	1.00005334
42 39	6811042.202	30.85867	1.00004844
42 40	6809190.682	30.85861	1.00004362
42 41	6807339.166	30.85855	1.00003888
42 42	6805487.652	30.85850	1.00003423
42 43	6803636.142	30.85845	1.00002966
42 44	6801784.635	30.85840	1.00002517
42 45	6799933.131	30.85836	1.00002077
42 46	6798081.629	30.85832	1.00001645
42 47	6796230.130	30.85828	1.00001221
42 48	6794378.634	30.85824	1.00000806
42 49	6792527.139	30.85821	1.00000399
42 50	6790675.647	30.85818	1.00000000
42 51	6788824.156	30.85815	0.99999610
42 52	6786972.667	30.85812	0.99999227
42 53	6785121.180	30.85810	0.99998854
42 54	6783269.694	30.85808	0.99998488
42 55	6781418.210	30.85806	0.99998131
42 56	6779566.726	30.85804	0.99997782
42 57	6777715.244	30.85803	0.99997442
42 58	6775863.762	30.85802	0.99997110
42 59	6774012.281	30.85801	0.99996786

Lambert conformal conic projection tables
SOUTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
43° 0'	6772160.801	30.85800	0.99996471
43 1	6770309.321	30.85800	0.99996164
43 2	6768457.841	30.85800	0.99995865
43 3	6766606.361	30.85800	0.99995575
43 4	6764754.881	30.85800	0.99995293
43 5	6762903.401	30.85801	0.99995019
43 6	6761051.920	30.85802	0.99994754
43 7	6759200.439	30.85803	0.99994497
43 8	6757348.957	30.85805	0.99994248
43 9	6755497.474	30.85807	0.99994008
43 10	6753645.990	30.85809	0.99993776
43 11	6751794.505	30.85811	0.99993553
43 12	6749943.018	30.85813	0.99993337
43 13	6748091.530	30.85816	0.99993131
43 14	6746240.041	30.85819	0.99992932
43 15	6744388.549	30.85822	0.99992742
43 16	6742537.056	30.85826	0.99992561
43 17	6740685.560	30.85830	0.99992388
43 18	6738834.062	30.85834	0.99992223
43 19	6736982.562	30.85838	0.99992066
43 20	6735131.059	30.85843	0.99991918
43 21	6733279.554	30.85848	0.99991779
43 22	6731428.045	30.85853	0.99991647
43 23	6729576.533	30.85858	0.99991524
43 24	6727725.019	30.85864	0.99991410
43 25	6725873.500	30.85870	0.99991304
43 26	6724021.979	30.85876	0.99991206
43 27	6722170.453	30.85882	0.99991117
43 28	6720318.924	30.85889	0.99991036
43 29	6718467.391	30.85896	0.99990964
43 30	6716615.853	30.85903	0.99990900
43 31	6714764.312	30.85910	0.99990844
43 32	6712912.765	30.85918	0.99990797
43 33	6711061.214	30.85926	0.99990758
43 34	6709209.659	30.85934	0.99990728
43 35	6707358.098	30.85943	0.99990706
43 36	6705506.533	30.85951	0.99990692
43 37	6703654.962	30.85960	0.99990687
43 38	6701803.386	30.85970	0.99990690
43 39	6699951.804	30.85979	0.99990702

Lambert conformal conic projection tables
SOUTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
43° 40'	6698100.216	30.85989	0.99990722
43 41	6696248.623	30.85999	0.99990751
43 42	6694397.023	30.86009	0.99990788
43 43	6692545.418	30.86020	0.99990834
43 44	6690693.806	30.86031	0.99990888
43 45	6688842.187	30.86042	0.99990950
43 46	6686990.562	30.86053	0.99991021
43 47	6685138.930	30.86065	0.99991100
43 48	6683287.291	30.86077	0.99991188
43 49	6681435.645	30.86089	0.99991284
43 50	6679583.992	30.86101	0.99991389
43 51	6677732.331	30.86114	0.99991502
43 52	6675880.663	30.86127	0.99991624
43 53	6674028.987	30.86140	0.99991754
43 54	6672177.303	30.86153	0.99991892
43 55	6670325.611	30.86167	0.99992039
43 56	6668473.910	30.86181	0.99992195
43 57	6666622.202	30.86195	0.99992359
43 58	6664770.484	30.86210	0.99992531
43 59	6662918.758	30.86225	0.99992712
44 0	6661067.024	30.86240	0.99992902
44 1	6659215.280	30.86255	0.99993100
44 2	6657363.527	30.86270	0.99993306
44 3	6655511.765	30.86286	0.99993521
44 4	6653659.993	30.86302	0.99993744
44 5	6651808.211	30.86319	0.99993976
44 6	6649956.420	30.86335	0.99994217
44 7	6648104.619	30.86352	0.99994466
44 8	6646252.808	30.86369	0.99994723
44 9	6644400.986	30.86387	0.99994989
44 10	6642549.154	30.86404	0.99995263
44 11	6640697.312	30.86422	0.99995546
44 12	6638845.459	30.86440	0.99995838
44 13	6636993.594	30.86459	0.99996138
44 14	6635141.719	30.86477	0.99996446
44 15	6633289.833	30.86496	0.99996763
44 16	6631437.935	30.86516	0.99997089
44 17	6629586.025	30.86535	0.99997423
44 18	6627734.104	30.86555	0.99997765
44 19	6625882.171	30.86575	0.99998116

Lambert conformal conic projection tables
SOUTH DAKOTA SOUTH

Lat	R (meters)	tab diff.	k
44° 20'	6624030.227	30.86595	0.99998476
44 21	6622178.270	30.86616	0.99998844
44 22	6620326.300	30.86636	0.99999221
44 23	6618474.318	30.86658	0.99999606
44 24	6616622.324	30.86679	1.00000000
44 25	6614770.316	30.86700	1.00000402
44 26	6612918.296	30.86722	1.00000813
44 27	6611066.263	30.86744	1.00001233
44 28	6609214.216	30.86767	1.00001661
44 29	6607362.156	30.86789	1.00002097
44 30	6605510.082	30.86812	1.00002542
44 31	6603657.995	30.86836	1.00002996
44 32	6601805.893	30.86859	1.00003458
44 33	6599953.778	30.86883	1.00003929
44 34	6598101.648	30.86907	1.00004409
44 35	6596249.504	30.86931	1.00004897
44 36	6594397.346	30.86955	1.00005393
44 37	6592545.172	30.86980	1.00005898
44 38	6590692.984	30.87005	1.00006412
44 39	6588840.781	30.87031	1.00006935
44 40	6586988.563	30.87056	1.00007465
44 41	6585136.329	30.87082	1.00008005
44 42	6583284.080	30.87108	1.00008553
44 43	6581431.815	30.87134	1.00009110
44 44	6579579.534	30.87161	1.00009675
44 45	6577727.238	30.87188	1.00010249
44 46	6575874.925	30.87215	1.00010831
44 47	6574022.596	30.87243	1.00011422
44 48	6572170.250	30.87270	1.00012022
44 49	6570317.888	30.87298	1.00012631
44 50	6568465.509	30.87326	1.00013247
44 51	6566613.113	30.87355	1.00013873
44 52	6564760.700	30.87384	1.00014507
44 53	6562908.270	30.87413	1.00015150
44 54	6561055.823	30.87442	1.00015801
44 55	6559203.357	30.87472	1.00016462
44 56	6557350.874	30.87501	1.00017130
44 57	6555498.374	30.87531	1.00017808
44 58	6553645.855	30.87562	1.00018494
44 59	6551793.318	30.87592	1.00019188

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TENNESSEE

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 34° 20' (latitude of grid origin)
λ_{CM} = 86 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 35 15 (southern standard parallel)
ϕ_n = 36 25 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.585439726458 = \sin(\phi.)$
K = 13064326.2967 m (mapping radius at the equator)
R_b = 9008631.3114 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	35 50 0.00000 86 30 0.00000	8842207.849 m -0 17 33.79151	-0.0051089032 0.9999869495	554826.016 m 166538.858 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	650000.000 m 170000.000 m	50000.000 m 8838631.311 m	8838772.7348 m 0 19 26.82436	35 51 51.4588 85 26 46.9266

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
TENNESSEE

Lat	R (meters)	tab diff.	k
34° 40'	8971646.094	30.81983	1.00015406
34 41	8969796.904	30.81974	1.00014824
34 42	8967947.719	30.81965	1.00014251
34 43	8966098.540	30.81956	1.00013686
34 44	8964249.366	30.81948	1.00013129
34 45	8962400.198	30.81939	1.00012580
34 46	8960551.034	30.81931	1.00012040
34 47	8958701.876	30.81923	1.00011508
34 48	8956852.722	30.81916	1.00010985
34 49	8955003.572	30.81909	1.00010470
34 50	8953154.427	30.81901	1.00009963
34 51	8951305.286	30.81895	1.00009464
34 52	8949456.149	30.81888	1.00008974
34 53	8947607.016	30.81882	1.00008492
34 54	8945757.887	30.81876	1.00008018
34 55	8943908.762	30.81870	1.00007553
34 56	8942059.640	30.81865	1.00007096
34 57	8940210.521	30.81859	1.00006648
34 58	8938361.405	30.81855	1.00006207
34 59	8936512.292	30.81850	1.00005776
35 0	8934663.182	30.81845	1.00005352
35 1	8932814.075	30.81841	1.00004937
35 2	8930964.971	30.81837	1.00004530
35 3	8929115.868	30.81834	1.00004131
35 4	8927266.768	30.81830	1.00003741
35 5	8925417.670	30.81827	1.00003359
35 6	8923568.574	30.81824	1.00002986
35 7	8921719.479	30.81821	1.00002621
35 8	8919870.386	30.81819	1.00002264
35 9	8918021.295	30.81817	1.00001915
35 10	8916172.205	30.81815	1.00001575
35 11	8914323.116	30.81814	1.00001243
35 12	8912474.027	30.81812	1.00000920
35 13	8910624.940	30.81811	1.00000605
35 14	8908775.853	30.81810	1.00000298
35 15	8906926.767	30.81810	1.0000000
35 16	8905077.681	30.81809	0.99999710
35 17	8903228.596	30.81809	0.99999428
35 18	8901379.510	30.81810	0.99999155
35 19	8899530.424	30.81810	0.99998890

Lambert conformal conic projection tables
TENNESSEE

Lat	R (meters)	tab diff.	k
35° 20'	8897681.338	30.81811	0.99998634
35 21	8895832.252	30.81812	0.99998386
35 22	8893983.165	30.81813	0.99998146
35 23	8892134.077	30.81815	0.99997915
35 24	8890284.988	30.81816	0.99997692
35 25	8888435.898	30.81818	0.99997477
35 26	8886586.807	30.81821	0.99997271
35 27	8884737.715	30.81823	0.99997073
35 28	8882888.621	30.81826	0.99996884
35 29	8881039.525	30.81829	0.99996703
35 30	8879190.427	30.81833	0.99996530
35 31	8877341.328	30.81836	0.99996366
35 32	8875492.226	30.81840	0.99996210
35 33	8873643.122	30.81844	0.99996062
35 34	8871794.016	30.81848	0.99995923
35 35	8869944.907	30.81853	0.99995792
35 36	8868095.795	30.81858	0.99995670
35 37	8866246.680	30.81863	0.99995556
35 38	8864397.562	30.81869	0.99995451
35 39	8862548.441	30.81874	0.99995353
35 40	8860699.316	30.81880	0.99995265
35 41	8858850.188	30.81886	0.99995184
35 42	8857001.056	30.81893	0.99995112
35 43	8855151.921	30.81900	0.99995049
35 44	8853302.781	30.81907	0.99994994
35 45	8851453.637	30.81914	0.99994947
35 46	8849604.489	30.81921	0.99994909
35 47	8847755.336	30.81929	0.99994879
35 48	8845906.178	30.81937	0.99994858
35 49	8844057.016	30.81945	0.99994845
35 50	8842207.849	30.81954	0.99994840
35 51	8840358.676	30.81963	0.99994844
35 52	8838509.499	30.81972	0.99994856
35 53	8836660.316	30.81981	0.99994877
35 54	8834811.127	30.81991	0.99994906
35 55	8832961.932	30.82001	0.99994944
35 56	8831112.732	30.82011	0.99994990
35 57	8829263.525	30.82021	0.99995044
35 58	8827414.313	30.82032	0.99995107
35 59	8825565.094	30.82043	0.99995178

Lambert conformal conic projection tables
TENNESSEE

Lat	R (meters)	tab diff.	k
36° 0'	8823715.868	30.82054	0.99995258
36 1	8821866.636	30.82065	0.99995346
36 2	8820017.396	30.82077	0.99995443
36 3	8818168.150	30.82089	0.99995548
36 4	8816318.897	30.82101	0.99995661
36 5	8814469.636	30.82114	0.99995783
36 6	8812620.368	30.82126	0.99995914
36 7	8810771.092	30.82139	0.99996053
36 8	8808921.808	30.82153	0.99996200
36 9	8807072.517	30.82166	0.99996356
36 10	8805223.217	30.82180	0.99996520
36 11	8803373.909	30.82194	0.99996693
36 12	8801524.592	30.82208	0.99996874
36 13	8799675.267	30.82223	0.99997063
36 14	8797825.933	30.82238	0.99997262
36 15	8795976.591	30.82253	0.99997468
36 16	8794127.239	30.82268	0.99997683
36 17	8792277.878	30.82284	0.99997907
36 18	8790428.508	30.82300	0.99998139
36 19	8788579.128	30.82316	0.99998379
36 20	8786729.738	30.82332	0.99998628
36 21	8784880.339	30.82349	0.99998885
36 22	8783030.929	30.82366	0.99999151
36 23	8781181.510	30.82383	0.99999426
36 24	8779332.080	30.82401	0.99999709
36 25	8777482.639	30.82418	1.00000000
36 26	8775633.188	30.82436	1.00000300
36 27	8773783.726	30.82455	1.00000608
36 28	8771934.254	30.82473	1.00000925
36 29	8770084.770	30.82492	1.00001250
36 30	8768235.274	30.82511	1.00001584
36 31	8766385.768	30.82530	1.00001926
36 32	8764536.249	30.82550	1.00002277
36 33	8762686.720	30.82570	1.00002637
36 34	8760837.178	30.82590	1.00003004
36 35	8758987.624	30.82610	1.00003381
36 36	8757138.058	30.82631	1.00003766
36 37	8755288.479	30.82652	1.00004159
36 38	8753438.888	30.82673	1.00004561
36 39	8751589.284	30.82694	1.00004971

Lambert conformal conic projection tables
TENNESSEE

Lat	R (meters)	tab diff.	k
36° 40'	8749739.667	30.82716	1.00005390
36 41	8747890.038	30.82738	1.00005818
36 42	8746040.395	30.82760	1.00006254
36 43	8744190.739	30.82783	1.00006698
36 44	8742341.069	30.82806	1.00007151
36 45	8740491.386	30.82829	1.00007613
36 46	8738641.689	30.82852	1.00008083
36 47	8736791.978	30.82875	1.00008561
36 48	8734942.252	30.82899	1.00009048
36 49	8733092.513	30.82923	1.00009544
36 50	8731242.759	30.82948	1.00010048
36 51	8729392.991	30.82972	1.00010561
36 52	8727543.207	30.82997	1.00011082
36 53	8725693.409	30.83022	1.00011612
36 54	8723843.596	30.83048	1.00012150
36 55	8721993.767	30.83073	1.00012697
36 56	8720143.923	30.83099	1.00013253
36 57	8718294.064	30.83125	1.00013817
36 58	8716444.189	30.83152	1.00014389
36 59	8714594.297	30.83179	1.00014971
37 0	8712744.390	30.83206	1.00015560

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TEXAS CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 29° 40' (latitude of grid origin)
λ_{CM} = 100 20 (longitude of origin and Central Meridian, CM)
ϕ_s = 30 7 (southern standard parallel)
ϕ_n = 31 53 (northern standard parallel)
E. = 700000.0000 m (easting coordinate of origin)
N_b =3000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.515058882235 = sin(ϕ.)
K = 14219009.8813 m (mapping radius at the equator)
R_b = 10770561.1034 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	31 0 0.00000 100 50 0.00000	10622754.508 m -0 15 27.10599	-0.0044947215 0.9999898987	652253.677 m 3147913.899 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	750000.000 m 3150000.000 m	50000.000 m 10620561.103 m	10620678.7990 m 0 16 11.05643	31 1 7.4074 99 48 34.6691

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
TEXAS CENTRAL

Lat	R (meters)	tab diff.	k
29° 40'	10770561.103	30.79536	1.00015050
29 41	10768713.382	30.79523	1.00014384
29 42	10766865.668	30.79511	1.00013727
29 43	10765017.961	30.79499	1.00013078
29 44	10763170.262	30.79487	1.00012437
29 45	10761322.570	30.79476	1.00011805
29 46	10759474.884	30.79464	1.00011181
29 47	10757627.206	30.79453	1.00010565
29 48	10755779.534	30.79442	1.00009958
29 49	10753931.868	30.79432	1.00009359
29 50	10752084.209	30.79422	1.00008768
29 51	10750236.556	30.79411	1.00008186
29 52	10748388.910	30.79402	1.00007612
29 53	10746541.269	30.79392	1.00007046
29 54	10744693.633	30.79383	1.00006488
29 55	10742846.003	30.79374	1.00005939
29 56	10740998.379	30.79365	1.00005398
29 57	10739150.760	30.79357	1.00004866
29 58	10737303.146	30.79349	1.00004342
29 59	10735455.537	30.79341	1.00003826
30 0	10733607.932	30.79333	1.00003319
30 1	10731760.333	30.79325	1.00002820
30 2	10729912.737	30.79318	1.00002329
30 3	10728065.146	30.79311	1.00001846
30 4	10726217.560	30.79305	1.00001372
30 5	10724369.977	30.79298	1.00000906
30 6	10722522.398	30.79292	1.00000449
30 7	10720674.822	30.79286	1.00000000
30 8	10718827.251	30.79281	0.99999559
30 9	10716979.682	30.79275	0.99999127
30 10	10715132.117	30.79270	0.99998703
30 11	10713284.555	30.79265	0.99998287
30 12	10711436.996	30.79261	0.99997880
30 13	10709589.439	30.79256	0.99997481
30 14	10707741.885	30.79252	0.99997090
30 15	10705894.334	30.79249	0.99996708
30 16	10704046.785	30.79245	0.99996334
30 17	10702199.238	30.79242	0.99995969
30 18	10700351.693	30.79239	0.99995611
30 19	10698504.149	30.79236	0.99995262

Lambert conformal conic projection tables
TEXAS CENTRAL

Lat	R (meters)	tab diff.	k
30° 20'	10696656.608	30.79234	0.99994922
30 21	10694809.068	30.79231	0.99994590
30 22	10692961.529	30.79229	0.99994266
30 23	10691113.991	30.79228	0.99993951
30 24	10689266.455	30.79226	0.99993644
30 25	10687418.919	30.79225	0.99993345
30 26	10685571.384	30.79224	0.99993055
30 27	10683723.850	30.79223	0.99992773
30 28	10681876.316	30.79223	0.99992499
30 29	10680028.782	30.79223	0.99992234
30 30	10678181.248	30.79223	0.99991977
30 31	10676333.715	30.79223	0.99991729
30 32	10674486.181	30.79224	0.99991489
30 33	10672638.647	30.79225	0.99991257
30 34	10670791.112	30.79226	0.99991034
30 35	10668943.576	30.79227	0.99990819
30 36	10667096.040	30.79229	0.99990612
30 37	10665248.503	30.79231	0.99990414
30 38	10663400.964	30.79233	0.99990225
30 39	10661553.424	30.79235	0.99990043
30 40	10659705.883	30.79238	0.99989870
30 41	10657858.340	30.79241	0.99989706
30 42	10656010.795	30.79244	0.99989549
30 43	10654163.249	30.79248	0.99989402
30 44	10652315.700	30.79252	0.99989262
30 45	10650468.149	30.79256	0.99989131
30 46	10648620.596	30.79260	0.99989009
30 47	10646773.040	30.79264	0.99988894
30 48	10644925.481	30.79269	0.99988789
30 49	10643077.920	30.79274	0.99988691
30 50	10641230.355	30.79280	0.99988602
30 51	10639382.787	30.79285	0.99988521
30 52	10637535.216	30.79291	0.99988449
30 53	10635687.642	30.79297	0.99988385
30 54	10633840.063	30.79303	0.99988330
30 55	10631992.481	30.79310	0.99988283
30 56	10630144.895	30.79317	0.99988245
30 57	10628297.305	30.79324	0.99988214
30 58	10626449.711	30.79332	0.99988193

30 59	10624602.112	30.79339	0.99988179

Lambert conformal conic projection tables
TEXAS CENTRAL

Lat	R (meters)	tab diff.	k
31° 0'	10622754.508	30.79347	0.99988174
31 1	10620906.900	30.79355	0.99988178
31 2	10619059.287	30.79364	0.99988190
31 3	10617211.668	30.79373	0.99988210
31 4	10615364.045	30.79382	0.99988239
31 5	10613516.416	30.79391	0.99988276
31 6	10611668.782	30.79400	0.99988322
31 7	10609821.141	30.79410	0.99988376
31 8	10607973.495	30.79420	0.99988438
31 9	10606125.843	30.79430	0.99988509
31 10	10604278.185	30.79441	0.99988589
31 11	10602430.521	30.79452	0.99988676
31 12	10600582.850	30.79463	0.99988773
31 13	10598735.172	30.79474	0.99988877
31 14	10596887.487	30.79486	0.99988990
31 15	10595039.796	30.79498	0.99989112
31 16	10593192.097	30.79510	0.99989242
31 17	10591344.391	30.79522	0.99989380
31 18	10589496.678	30.79535	0.99989527
31 19	10587648.957	30.79548	0.99989682
31 20	10585801.229	30.79561	0.99989846
31 21	10583953.492	30.79574	0.99990018
31 22	10582105.748	30.79588	0.99990199
31 23	10580257.995	30.79602	0.99990388
31 24	10578410.234	30.79616	0.99990586
31 25	10576562.464	30.79631	0.99990792
31 26	10574714.685	30.79645	0.99991006
31 27	10572866.898	30.79660	0.99991229
31 28	10571019.102	30.79676	0.99991460
31 29	10569171.296	30.79691	0.99991700
31 30	10567323.482	30.79707	0.99991949
31 31	10565475.657	30.79723	0.99992205
31 32	10563627.823	30.79740	0.99992471
31 33	10561779.980	30.79756	0.99992744
31 34	10559932.126	30.79773	0.99993027
31 35	10558084.262	30.79790	0.99993317
31 36	10556236.388	30.79808	0.99993616
31 37	10554388.504	30.79825	0.99993924

31 38	10552540.608	30.79843	0.99994240
31 39	10550692.703	30.79861	0.99994565

Lambert conformal conic projection tables
TEXAS CENTRAL

Lat	R (meters)	tab diff.	k
31° 40'	10548844.786	30.79880	0.99994898
31 41	10546996.858	30.79898	0.99995239
31 42	10545148.919	30.79917	0.99995589
31 43	10543300.969	30.79937	0.99995948
31 44	10541453.007	30.79956	0.99996315
31 45	10539605.033	30.79976	0.99996690
31 46	10537757.047	30.79996	0.99997074
31 47	10535909.050	30.80016	0.99997467
31 48	10534061.040	30.80037	0.99997868
31 49	10532213.018	30.80058	0.99998277
31 50	10530364.984	30.80079	0.99998695
31 51	10528516.936	30.80100	0.99999122
31 52	10526668.876	30.80122	0.99999557
31 53	10524820.803	30.80143	1.00000000
31 54	10522972.717	30.80166	1.00000452
31 55	10521124.618	30.80188	1.00000912
31 56	10519276.505	30.80211	1.00001381
31 57	10517428.379	30.80234	1.00001859
31 58	10515580.239	30.80257	1.00002345
31 59	10513732.085	30.80280	1.00002839
32 0	10511883.916	30.80304	1.00003342
32 1	10510035.734	30.80328	1.00003854
32 2	10508187.537	30.80352	1.00004374
32 3	10506339.326	30.80377	1.00004903
32 4	10504491.100	30.80402	1.00005440
32 5	10502642.859	30.80427	1.00005985
32 6	10500794.603	30.80452	1.00006539
32 7	10498946.332	30.80478	1.00007102
32 8	10497098.045	30.80503	1.00007673
32 9	10495249.743	30.80529	1.00008253
32 10	10493401.425	30.80556	1.00008841
32 11	10491553.092	30.80582	1.00009438
32 12	10489704.742	30.80609	1.00010044
32 13	10487856.377	30.80637	1.00010657
32 14	10486007.995	30.80664	1.00011280
32 15	10484159.596	30.80692	1.00011911
32 16	10482311.181	30.80720	1.00012550

32 17	10480462.750	30.80748	1.00013198
32 18	10478614.301	30.80776	1.00013855
32 19	10476765.835	30.80805	1.00014520

Lambert conformal conic projection tables
TEXAS CENTRAL

Lat	R (meters)	tab diff.	k
32° 20'	10474917.352	30.80834	1.00015194
32 21	10473068.851	30.80864	1.00015876
32 22	10471220.333	30.80893	1.00016567
32 23	10469371.797	30.80923	1.00017266
32 24	10467523.244	30.80953	1.00017974
32 25	10465674.672	30.80983	1.00018691
32 26	10463826.082	30.81014	1.00019416
32 27	10461977.473	30.81045	1.00020149
32 28	10460128.846	30.81076	1.00020891
32 29	10458280.201	30.81108	1.00021642
32 30	10456431.536	30.81139	1.00022402
32 31	10454582.853	30.81171	1.00023169
32 32	10452734.150	30.81203	1.00023946
32 33	10450885.428	30.81236	1.00024731
32 34	10449036.686	30.81269	1.00025525
32 35	10447187.925	30.81302	1.00026327
32 36	10445339.144	30.81335	1.00027138
32 37	10443490.343	30.81369	1.00027957
32 38	10441641.522	30.81402	1.00028785
32 39	10439792.681	30.81436	1.00029621
32 40	10437943.819	30.81471	1.00030466

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TEXAS NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 34° 0' (latitude of grid origin)
λ_{CM} = 101 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 34 39 (southern standard parallel)
ϕ_n = 36 11 (northern standard parallel)
E_o = 200000.0000 m (easting coordinate of origin)
N_b =1000000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.579535862261 = \sin(\phi_o)$
K = 13145417.7356 m (mapping radius at the equator)
R_b = 9135570.8896 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R Y	sin (y) cos (y)	E N
Sample 1	35 25 0.00000 102 0 0.00000	8978410.692 m -0 17 23.16455	-0.0050573829 0.9999872114	154592.739 m 1157275.109 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R Y	Latitude Longitude
Sample 2	250000.000 m 1160000.000 m	50000.000 m 8975570.890 m	8975710.1554 m 0 19 9.02258m	35 26 27.6335 100 56 57.3400

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables

TEXAS NORTH

Lat	R (meters)	tab diff.	k
34° 0'	9135570.890	30.81830	1.00021397
34 1	9133721.792	30.81817	1.00020691
34 2	9131872.702	30.81804	1.00019993
34 3	9130023.619	30.81791	1.00019303
34 4	9128174.545	30.81778	1.00018621
34 5	9126325.478	30.81766	1.00017948
34 6	9124476.418	30.81754	1.00017283
34 7	9122627.366	30.81742	1.00016626
34 8	9120778.320	30.81731	1.00015978
34 9	9118929.282	30.81720	1.00015337
34 10	9117080.250	30.81709	1.00014706
34 11	9115231.224	30.81698	1.00014082
34 12	9113382.206	30.81688	1.00013467
34 13	9111533.193	30.81677	1.00012860
34 14	9109684.187	30.81668	1.00012261
34 15	9107835.186	30.81658	1.00011671
34 16	9105986.191	30.81648	1.00011089
34 17	9104137.202	30.81639	1.00010515
34 18	9102288.219	30.81630	1.00009950
34 19	9100439.240	30.81622	1.00009393
34 20	9098590.267	30.81613	1.00008844
34 21	9096741.299	30.81605	1.00008304
34 22	9094892.336	30.81597	1.00007772
34 23	9093043.378	30.81590	1.00007248
34 24	9091194.424	30.81582	1.00006732
34 25	9089345.474	30.81575	1.00006225
34 26	9087496.529	30.81569	1.00005726
34 27	9085647.588	30.81562	1.00005236
34 28	9083798.651	30.81556	1.00004754
34 29	9081949.717	30.81550	1.00004280
34 30	9080100.788	30.81544	1.00003814
34 31	9078251.861	30.81538	1.00003357
34 32	9076402.938	30.81533	1.00002908
34 33	9074554.018	30.81528	1.00002468
34 34	9072705.102	30.81523	1.00002036
34 35	9070856.188	30.81519	1.00001612
34 36	9069007.276	30.81514	1.00001196
34 37	9067158.368	30.81511	1.00000789
34 38	9065309.461	30.81507	1.00000390
34 39	9063460.557	30.81503	1.0000000

Lambert conformal conic projection tables
TEXAS NORTH

Lat	R (meters)	tab diff.	k
34°40'	9061611.655	30.81500	0.99999618
34 41	9059762.755	30.81497	0.99999244
34 42	9057913.857	30.81494	0.99998879
34 43	9056064.960	30.81492	0.99998522
34 44	9054216.065	30.81490	0.99998173
34 45	9052367.171	30.81488	0.99997833
34 46	9050518.278	30.81486	0.99997501
34 47	9048669.387	30.81485	0.99997177
34 48	9046820.496	30.81484	0.99996862
34 49	9044971.605	30.81483	0.99996555
34 50	9043122.716	30.81482	0.99996256
34 51	9041273.826	30.81482	0.99995966
34 52	9039424.937	30.81482	0.99995684
34 53	9037576.048	30.81482	0.99995411
34 54	9035727.159	30.81482	0.99995146
34 55	9033878.269	30.81483	0.99994889
34 56	9032029.379	30.81484	0.99994641
34 57	9030180.489	30.81485	0.99994401
34 58	9028331.598	30.81487	0.99994169
34 59	9026482.706	30.81488	0.99993946
35 0	9024633.813	30.81490	0.99993731
35 1	9022784.918	30.81493	0.99993524
35 2	9020936.023	30.81495	0.99993326
35 3	9019087.126	30.81498	0.99993137
35 4	9017238.227	30.81501	0.99992955
35 5	9015389.326	30.81504	0.99992782
35 6	9013540.424	30.81508	0.99992618
35 7	9011691.519	30.81512	0.99992462
35 8	9009842.612	30.81516	0.99992314
35 9	9007993.702	30.81520	0.99992175
35 10	9006144.790	30.81525	0.99992044
35 11	9004295.876	30.81529	0.99991921
35 12	9002446.958	30.81535	0.99991807
35 13	9000598.037	30.81540	0.99991701
35 14	8998749.113	30.81546	0.99991604
35 15	8996900.186	30.81551	0.99991515
35 16	8995051.255	30.81558	0.99991434
35 17	8993202.320	30.81564	0.99991362
35 18	8991353.382	30.81571	0.99991298
35 19	8989504.440	30.81578	0.99991243

Lambert conformal conic projection tables
TEXAS NORTH

Lat	R (meters)	tab diff.	k
35°20'	8987655.493	30.81585	0.99991196
35 21	8985806.542	30.81592	0.99991157
35 22	8983957.587	30.81600	0.99991127
35 23	8982108.627	30.81608	0.99991106
35 24	8980259.662	30.81616	0.99991092
35 25	8978410.692	30.81625	0.99991088
35 26	8976561.717	30.81634	0.99991091
35 27	8974712.737	30.81643	0.99991103
35 28	8972863.752	30.81652	0.99991124
35 29	8971014.761	30.81661	0.99991152
35 30	8969165.764	30.81671	0.99991190
35 31	8967316.761	30.81681	0.99991236
35 32	8965467.752	30.81692	0.99991290
35 33	8963618.737	30.81702	0.99991352
35 34	8961769.716	30.81713	0.99991423
35 35	8959920.688	30.81724	0.99991503
35 36	8958071.654	30.81736	0.99991591
35 37	8956222.612	30.81747	0.99991687
35 38	8954373.564	30.81759	0.99991792
35 39	8952524.509	30.81771	0.99991905
35 40	8950675.446	30.81784	0.99992027
35 41	8948826.376	30.81796	0.99992157
35 42	8946977.298	30.81809	0.99992296
35 43	8945128.212	30.81823	0.99992443
35 44	8943279.119	30.81836	0.99992598
35 45	8941430.017	30.81850	0.99992762
35 46	8939580.907	30.81864	0.99992935
35 47	8937731.789	30.81878	0.99993115
35 48	8935882.662	30.81893	0.99993305
35 49	8934033.527	30.81907	0.99993503
35 50	8932184.382	30.81922	0.99993709
35 51	8930335.229	30.81938	0.99993924
35 52	8928486.066	30.81953	0.99994147
35 53	8926636.894	30.81969	0.99994379
35 54	8924787.713	30.81985	0.99994619
35 55	8922938.522	30.82002	0.99994867
35 56	8921089.321	30.82018	0.99995124
35 57	8919240.110	30.82035	0.99995390
35 58	8917390.889	30.82052	0.99995664
35 59	8915541.657	30.82070	0.99995947

Lambert conformal conic projection tables
TEXAS NORTH

Lat	R (meters)	tab diff.	k
36° 0'	8913692.415	30.82087	0.99996238
36 1	8911843.163	30.82105	0.99996537
36 2	8909993.900	30.82124	0.99996845
36 3	8908144.626	30.82142	0.99997162
36 4	8906295.340	30.82161	0.99997487
36 5	8904446.044	30.82180	0.99997820
36 6	8902596.736	30.82199	0.99998162
36 7	8900747.417	30.82219	0.99998513
36 8	8898898.086	30.82238	0.99998872
36 9	8897048.743	30.82258	0.99999239
36 10	8895199.388	30.82279	0.99999615
36 11	8893350.020	30.82299	1.00000000
36 12	8891500.641	30.82320	1.00000393
36 13	8889651.249	30.82341	1.00000795
36 14	8887801.844	30.82363	1.00001205
36 15	8885952.426	30.82384	1.00001623
36 16	8884102.996	30.82406	1.00002050
36 17	8882253.552	30.82428	1.00002486
36 18	8880404.095	30.82451	1.00002930
36 19	8878554.625	30.82473	1.00003383
36 20	8876705.140	30.82496	1.00003844
36 21	8874855.643	30.82520	1.00004314
36 22	8873006.131	30.82543	1.00004792
36 23	8871156.605	30.82567	1.00005279
36 24	8869307.065	30.82591	1.00005774
36 25	8867457.510	30.82615	1.00006278
36 26	8865607.941	30.82640	1.00006790
36 27	8863758.357	30.82665	1.00007311
36 28	8861908.758	30.82690	1.00007841
36 29	8860059.145	30.82715	1.00008379
36 30	8858209.516	30.82741	1.00008925
36 31	8856359.871	30.82767	1.00009480
36 32	8854510.211	30.82793	1.00010044
36 33	8852660.536	30.82819	1.00010616
36 34	8850810.844	30.82846	1.00011197
36 35	8848961.137	30.82873	1.00011786
36 36	8847111.413	30.82900	1.00012384
36 37	8845261.673	30.82927	1.00012991
36 38	8843411.917	30.82955	1.00013606
36 39	8841562.144	30.82983	1.00014229

Lambert conformal conic projection tables
TEXAS NORTH

Lat	R (meters)	tab diff.	k
36°40'	8839712.354	30.83011	1.00014861
36 41	8837862.547	30.83040	1.00015502
36 42	8836012.723	30.83069	1.00016151
36 43	8834162.882	30.83098	1.00016809
36 44	8832313.024	30.83127	1.00017476
36 45	8830463.147	30.83157	1.00018151
36 46	8828613.253	30.83187	1.00018834
36 47	8826763.341	30.83217	1.00019526
36 48	8824913.411	30.83247	1.00020227
36 49	8823063.463	30.83278	1.00020936
36 50	8821213.497	30.83309	1.00021654

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TEXAS NORTH-CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 31° 40' (latitude of grid origin)
λ_{CM} = 98 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 32 8 (southern standard parallel)
ϕ_n = 33 58 (northern standard parallel)
$E_.$ = 600000.0000 m (easting coordinate of origin)
N_b =2000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.545394412971 = $\sin(\phi_.)$
K = 13669256.3042 m (mapping radius at the equator)
R_b = 9964225.7538 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E_.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	33 3 0.00000 99 0 0.00000	9810828.314 m -0 16 21.70994	-0.0047594461 0.9999886738	553305.891 m 2153508.559 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - $E_.$ R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 2160000.000 m	50000.000 m 9804225.754 m	9804353.2490 m 0 17 31.90875	33 6 30.2071 97 57 51.2880

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
TEXAS NORTH-CENTRAL

Lat	R (meters)	tab diff.	k
31° 40'	9964225.754	30.80520	1.00016189
31 41	9962377.442	30.80506	1.00015498
31 42	9960529.138	30.80494	1.00014816
31 43	9958680.842	30.80481	1.00014142
31 44	9956832.553	30.80469	1.00013477
31 45	9954984.272	30.80457	1.00012820
31 46	9953135.998	30.80445	1.00012171
31 47	9951287.731	30.80433	1.00011530
31 48	9949439.471	30.80422	1.00010898
31 49	9947591.218	30.80411	1.00010274
31 50	9945742.971	30.80400	1.00009658
31 51	9943894.731	30.80390	1.00009051
31 52	9942046.497	30.80380	1.00008452
31 53	9940198.269	30.80370	1.00007861
31 54	9938350.047	30.80360	1.00007279
31 55	9936501.831	30.80351	1.00006705
31 56	9934653.621	30.80341	1.00006139
31 57	9932805.416	30.80332	1.00005582
31 58	9930957.217	30.80324	1.00005033
31 59	9929109.022	30.80315	1.00004492
32 0	9927260.833	30.80307	1.00003960
32 1	9925412.649	30.80299	1.00003435
32 2	9923564.469	30.80292	1.00002920
32 3	9921716.295	30.80284	1.00002412
32 4	9919868.124	30.80277	1.00001913
32 5	9918019.958	30.80270	1.00001422
32 6	9916171.796	30.80263	1.00000940
32 7	9914323.638	30.80257	1.00000466
32 8	9912475.483	30.80251	1.00000000
32 9	9910627.333	30.80245	0.99999543
32 10	9908779.186	30.80240	0.99999093
32 11	9906931.042	30.80234	0.99998653
32 12	9905082.901	30.80229	0.99998220
32 13	9903234.764	30.80224	0.99997796
32 14	9901386.629	30.80220	0.99997380
32 15	9899538.497	30.80216	0.99996973
32 16	9897690.368	30.80212	0.99996574
32 17	9895842.241	30.80208	0.99996183
32 18	9893994.116	30.80204	0.99995801
32 19	9892145.994	30.80201	0.99995427

Lambert conformal conic projection tables
TEXAS NORTH-CENTRAL

Lat	R (meters)	tab diff.	k
32° 20'	9890297.873	30.80198	0.99995061
32 21	9888449.754	30.80195	0.99994704
32 22	9886601.637	30.80193	0.99994355
32 23	9884753.521	30.80191	0.99994015
32 24	9882905.407	30.80189	0.99993682
32 25	9881057.294	30.80187	0.99993359
32 26	9879209.181	30.80186	0.99993043
32 27	9877361.070	30.80184	0.99992736
32 28	9875512.959	30.80184	0.99992437
32 29	9873664.849	30.80183	0.99992147
32 30	9871816.740	30.80182	0.99991865
32 31	9869968.630	30.80182	0.99991591
32 32	9868120.521	30.80182	0.99991326
32 33	9866272.411	30.80183	0.99991069
32 34	9864424.301	30.80184	0.99990820
32 35	9862576.191	30.80184	0.99990580
32 36	9860728.081	30.80186	0.99990348
32 37	9858879.969	30.80187	0.99990125
32 38	9857031.857	30.80189	0.99989910
32 39	9855183.744	30.80191	0.99989703
32 40	9853335.629	30.80193	0.99989505
32 41	9851487.514	30.80195	0.99989315
32 42	9849639.396	30.80198	0.99989134
32 43	9847791.277	30.80201	0.99988961
32 44	9845943.157	30.80204	0.99988796
32 45	9844095.034	30.80208	0.99988640
32 46	9842246.909	30.80212	0.99988492
32 47	9840398.782	30.80216	0.99988352
32 48	9838550.653	30.80220	0.99988221
32 49	9836702.521	30.80225	0.99988098
32 50	9834854.386	30.80229	0.99987984
32 51	9833006.249	30.80234	0.99987878
32 52	9831158.108	30.80240	0.99987780
32 53	9829309.964	30.80245	0.99987691
32 54	9827461.817	30.80251	0.99987611
32 55	9825613.666	30.80257	0.99987538
32 56	9823765.512	30.80264	0.99987474
32 57	9821917.353	30.80270	0.99987419
32 58	9820069.191	30.80277	0.99987372
32 59	9818221.025	30.80285	0.99987333

Lambert conformal conic projection tables
TEXAS NORTH-CENTRAL

Lat	R (meters)	tab diff.	k
33° 0'	9816372.854	30.80292	0.99987303
33 1	9814524.679	30.80300	0.99987281
33 2	9812676.499	30.80308	0.99987267
33 3	9810828.314	30.80316	0.99987262
33 4	9808980.125	30.80324	0.99987266
33 5	9807131.930	30.80333	0.99987278
33 6	9805283.730	30.80342	0.99987298
33 7	9803435.525	30.80351	0.99987326
33 8	9801587.314	30.80361	0.99987363
33 9	9799739.098	30.80371	0.99987409
33 10	9797890.876	30.80381	0.99987463
33 11	9796042.647	30.80391	0.99987525
33 12	9794194.413	30.80402	0.99987596
33 13	9792346.172	30.80412	0.99987675
33 14	9790497.924	30.80423	0.99987763
33 15	9788649.670	30.80435	0.99987859
33 16	9786801.409	30.80446	0.99987964
33 17	9784953.141	30.80458	0.99988077
33 18	9783104.866	30.80471	0.99988198
33 19	9781256.584	30.80483	0.99988328
33 20	9779408.294	30.80496	0.99988466
33 21	9777559.997	30.80509	0.99988613
33 22	9775711.692	30.80522	0.99988769
33 23	9773863.379	30.80535	0.99988932
33 24	9772015.058	30.80549	0.99989104
33 25	9770166.728	30.80563	0.99989285
33 26	9768318.391	30.80577	0.99989474
33 27	9766470.044	30.80592	0.99989672
33 28	9764621.689	30.80606	0.99989878
33 29	9762773.326	30.80621	0.99990092
33 30	9760924.953	30.80637	0.99990315
33 31	9759076.571	30.80652	0.99990546
33 32	9757228.179	30.80668	0.99990786
33 33	9755379.778	30.80684	0.99991034
33 34	9753531.368	30.80701	0.99991291
33 35	9751682.948	30.80717	0.99991556
33 36	9749834.517	30.80734	0.99991830
33 37	9747986.077	30.80751	0.99992112
33 38	9746137.626	30.80769	0.99992403
33 39	9744289.165	30.80786	0.99992702

Lambert conformal conic projection tables
TEXAS NORTH-CENTRAL

Lat	R (meters)	tab diff.	k
33° 40'	9742440.693	30.80804	0.99993010
33 41	9740592.211	30.80822	0.99993326
33 42	9738743.717	30.80841	0.99993651
33 43	9736895.213	30.80860	0.99993984
33 44	9735046.697	30.80879	0.99994325
33 45	9733198.170	30.80898	0.99994675
33 46	9731349.631	30.80917	0.99995034
33 47	9729501.081	30.80937	0.99995401
33 48	9727652.519	30.80957	0.99995777
33 49	9725803.944	30.80977	0.99996161
33 50	9723955.358	30.80998	0.99996553
33 51	9722106.759	30.81019	0.99996954
33 52	9720258.148	30.81040	0.99997364
33 53	9718409.524	30.81061	0.99997782
33 54	9716560.887	30.81083	0.99998209
33 55	9714712.237	30.81105	0.99998644
33 56	9712863.574	30.81127	0.99999087
33 57	9711014.898	30.81149	0.99999539
33 58	9709166.209	30.81172	1.00000000
33 59	9707317.505	30.81195	1.00000469
34 0	9705468.788	30.81218	1.00000947
34 1	9703620.057	30.81242	1.00001433
34 2	9701771.312	30.81265	1.00001928
34 3	9699922.553	30.81289	1.00002431
34 4	9698073.779	30.81314	1.00002943
34 5	9696224.991	30.81338	1.00003463
34 6	9694376.188	30.81363	1.00003992
34 7	9692527.370	30.81388	1.00004529
34 8	9690678.538	30.81413	1.00005075
34 9	9688829.690	30.81439	1.00005629
34 10	9686980.826	30.81465	1.00006192
34 11	9685131.947	30.81491	1.00006764
34 12	9683283.053	30.81517	1.00007344
34 13	9681434.142	30.81544	1.00007933
34 14	9679585.216	30.81571	1.00008530
34 15	9677736.273	30.81598	1.00009135
34 16	9675887.314	30.81626	1.00009750
34 17	9674038.339	30.81653	1.00010372
34 18	9672189.347	30.81681	1.00011004
34 19	9670340.338	30.81710	1.00011644

Lambert conformal conic projection tables
TEXAS NORTH-CENTRAL

Lat	R (meters)	tab diff.	k
34° 20'	9668491.312	30.81738	1.00012292
34 21	9666642.269	30.81767	1.00012949
34 22	9664793.209	30.81796	1.00013615
34 23	9662944.132	30.81825	1.00014289
34 24	9661095.037	30.81855	1.00014971
34 25	9659245.924	30.81885	1.00015663
34 26	9657396.793	30.81915	1.00016362
34 27	9655547.644	30.81945	1.00017071
34 28	9653698.477	30.81976	1.00017788
34 29	9651849.292	30.82007	1.00018513
34 30	9650000.088	30.82038	1.00019247

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TEXAS SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 25° 40' (latitude of grid origin)
λ_{CM} = 98 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 26 10 (southern standard parallel)
ϕ_n = 27 50 (northern standard parallel)
E_o = 300000.0000 m (easting coordinate of origin)
N_b =5000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.454006848165 = $\sin(\phi_o)$
K = 15621596.5270 m (mapping radius at the equator)
R_b = 12672396.4573 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	27 0 0.00000 99 0 0.00000	12524674.541 m -0 13 37.21233	-0.0039619468 0.9999921515	250377.906 m 5147820.217 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	350000.000m 5150000.000m	50000.000 m 12522396.457 m	12522496.2781 m 0 13 43.57922	27 1 10.7790 97 59 45.9762

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
TEXAS SOUTH

Lat	R (meters)	tab diff.	k
25° 40'	12672396.457	30.77799	1.00016350
25 41	12670549.778	30.77786	1.00015684
25 42	12668703.106	30.77773	1.00015027
25 43	12666856.442	30.77760	1.00014377
25 44	12665009.786	30.77748	1.00013737
25 45	12663163.137	30.77735	1.00013104
25 46	12661316.496	30.77723	1.00012480
25 47	12659469.862	30.77712	1.00011864
25 48	12657623.235	30.77700	1.00011256
25 49	12655776.615	30.77689	1.00010657
25 50	12653930.002	30.77678	1.00010066
25 51	12652083.395	30.77667	1.00009484
25 52	12650236.795	30.77657	1.00008909
25 53	12648390.201	30.77646	1.00008343
25 54	12646543.613	30.77636	1.00007786
25 55	12644697.031	30.77627	1.00007237
25 56	12642850.455	30.77617	1.00006696
25 57	12641003.885	30.77608	1.00006163
25 58	12639157.320	30.77599	1.00005639
25 59	12637310.761	30.77591	1.00005123
26 0	12635464.206	30.77582	1.00004616
26 1	12633617.657	30.77574	1.00004117
26 2	12631771.113	30.77566	1.00003626
26 3	12629924.573	30.77558	1.00003143
26 4	12628078.038	30.77551	1.00002669
26 5	12626231.507	30.77544	1.00002203
26 6	12624384.981	30.77537	1.00001746
26 7	12622538.459	30.77531	1.00001297
26 8	12620691.940	30.77524	1.00000856
26 9	12618845.426	30.77518	1.00000424
26 10	12616998.915	30.77512	1.00000000
26 11	12615152.407	30.77507	0.99999584
26 12	12613305.903	30.77502	0.99999177
26 13	12611459.402	30.77497	0.99998778
26 14	12609612.904	30.77492	0.99998388
26 15	12607766.409	30.77487	0.99998005
26 16	12605919.916	30.77483	0.99997632
26 17	12604073.426	30.77479	0.99997266
26 18	12602226.939	30.77475	0.99996909
26 19	12600380.454	30.77472	0.99996560

Lambert conformal conic projection tables
TEXAS SOUTH

Lat	R (meters)	tab diff.	k
26° 20'	12598533.970	30.77469	0.99996220
26 21	12596687.489	30.77466	0.99995888
26 22	12594841.010	30.77463	0.99995564
26 23	12592994.532	30.77461	0.99995249
26 24	12591148.055	30.77459	0.99994942
26 25	12589301.580	30.77457	0.99994644
26 26	12587455.106	30.77455	0.99994354
26 27	12585608.633	30.77454	0.99994072
26 28	12583762.160	30.77453	0.99993798
26 29	12581915.689	30.77452	0.99993533
26 30	12580069.218	30.77451	0.99993277
26 31	12578222.747	30.77451	0.99993029
26 32	12576376.276	30.77451	0.99992789
26 33	12574529.806	30.77451	0.99992557
26 34	12572683.335	30.77452	0.99992334
26 35	12570836.864	30.77452	0.99992119
26 36	12568990.393	30.77453	0.99991913
26 37	12567143.921	30.77455	0.99991715
26 38	12565297.448	30.77456	0.99991525
26 39	12563450.974	30.77458	0.99991344
26 40	12561604.500	30.77460	0.99991171
26 41	12559758.024	30.77462	0.99991007
26 42	12557911.546	30.77465	0.99990851
26 43	12556065.068	30.77468	0.99990703
26 44	12554218.587	30.77471	0.99990564
26 45	12552372.105	30.77474	0.99990433
26 46	12550525.620	30.77478	0.99990311
26 47	12548679.134	30.77481	0.99990197
26 48	12546832.645	30.77486	0.99990091
26 49	12544986.154	30.77490	0.99989994
26 50	12543139.660	30.77495	0.99989905
26 51	12541293.163	30.77499	0.99989825
26 52	12539446.663	30.77505	0.99989753
26 53	12537600.161	30.77510	0.99989689
26 54	12535753.654	30.77516	0.99989634
26 55	12533907.145	30.77522	0.99989587
26 56	12532060.632	30.77528	0.99989549
26 57	12530214.115	30.77534	0.99989519
26 58	12528367.595	30.77541	0.99989497
26 59	12526521.070	30.77548	0.99989484

Lambert conformal conic projection tables
TEXAS SOUTH

Lat	R (meters)	tab diff.	k
27° 0'	12524674.541	30.77555	0.99989479
27 1	12522828.008	30.77563	0.99989483
27 2	12520981.470	30.77571	0.99989495
27 3	12519134.928	30.77579	0.99989516
27 4	12517288.380	30.77587	0.99989545
27 5	12515441.828	30.77596	0.99989582
27 6	12513595.271	30.77605	0.99989628
27 7	12511748.708	30.77614	0.99989682
27 8	12509902.140	30.77623	0.99989745
27 9	12508055.566	30.77633	0.99989816
27 10	12506208.986	30.77643	0.99989895
27 11	12504362.401	30.77653	0.99989983
27 12	12502515.809	30.77663	0.99990079
27 13	12500669.211	30.77674	0.99990184
27 14	12498822.607	30.77685	0.99990297
27 15	12496975.996	30.77696	0.99990419
27 16	12495129.379	30.77707	0.99990549
27 17	12493282.754	30.77719	0.99990688
27 18	12491436.123	30.77731	0.99990834
27 19	12489589.484	30.77743	0.99990990
27 20	12487742.838	30.77756	0.99991154
27 21	12485896.185	30.77769	0.99991326
27 22	12484049.523	30.77782	0.99991507
27 23	12482202.854	30.77795	0.99991696
27 24	12480356.177	30.77809	0.99991893
27 25	12478509.492	30.77822	0.99992099
27 26	12476662.799	30.77836	0.99992314
27 27	12474816.097	30.77851	0.99992537
27 28	12472969.386	30.77865	0.99992768
27 29	12471122.667	30.77880	0.99993008
27 30	12469275.939	30.77895	0.99993256
27 31	12467429.202	30.77911	0.99993513
27 32	12465582.455	30.77927	0.99993778
27 33	12463735.699	30.77943	0.99994052
27 34	12461888.934	30.77959	0.99994334
27 35	12460042.158	30.77975	0.99994625
27 36	12458195.373	30.77992	0.99994924
27 37	12456348.578	30.78009	0.99995231
27 38	12454501.773	30.78026	0.99995547
27 39	12452654.957	30.78044	0.99995872

Lambert conformal conic projection tables
TEXAS SOUTH

Lat	R (meters)	tab diff.	k
27° 40'	12450808.131	30.78061	0.99996205
27 41	12448961.294	30.78080	0.99996546
27 42	12447114.446	30.78098	0.99996896
27 43	12445267.588	30.78116	0.99997254
27 44	12443420.718	30.78135	0.99997621
27 45	12441573.837	30.78154	0.99997996
27 46	12439726.944	30.78174	0.99998380
27 47	12437880.040	30.78193	0.99998772
27 48	12436033.124	30.78213	0.99999173
27 49	12434186.196	30.78233	0.99999582
27 50	12432339.256	30.78254	1.0000000
27 51	12430492.304	30.78275	1.00000426
27 52	12428645.339	30.78295	1.00000861
27 53	12426798.362	30.78317	1.00001304
27 54	12424951.372	30.78338	1.00001756
27 55	12423104.369	30.78360	1.00002216
27 56	12421257.353	30.78382	1.00002684
27 57	12419410.324	30.78404	1.00003161
27 58	12417563.281	30.78427	1.00003647
27 59	12415716.225	30.78450	1.00004141
28 0	12413869.155	30.78473	1.00004644
28 1	12412022.072	30.78496	1.00005155
28 2	12410174.974	30.78520	1.00005674
28 3	12408327.862	30.78543	1.00006203
28 4	12406480.736	30.78568	1.00006739
28 5	12404633.596	30.78592	1.00007284
28 6	12402786.441	30.78617	1.00007838
28 7	12400939.271	30.78641	1.00008400
28 8	12399092.086	30.78667	1.00008971
28 9	12397244.886	30.78692	1.00009550
28 10	12395397.671	30.78718	1.00010137
28 11	12393550.440	30.78744	1.00010734
28 12	12391703.194	30.78770	1.00011338
28 13	12389855.932	30.78797	1.00011952
28 14	12388008.654	30.78823	1.00012573
28 15	12386161.360	30.78850	1.00013204
28 16	12384314.049	30.78878	1.00013842
28 17	12382466.723	30.78905	1.00014490
28 18	12380619.379	30.78933	1.00015145
28 19	12378772.020	30.78961	1.00015810

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is TEXAS SOUTH-CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 27° 50' (latitude of grid origin)
λ_{CM} = 99 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 28 23 (southern standard parallel)
ϕ_n = 30 17 (northern standard parallel)
E. = 600000.0000 m (easting coordinate of origin)
N_b =4000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.489912625143 = $\sin(\phi.)$
K = 14743501.7826 m (mapping radius at the equator)
R_b = 11523512.5584 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	29 20 0.00000 99 30 0.00000	11357272.979 m -0 14 41.84272	-0.0042752812 0.9999908609	551444.465 m 4166343.374 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	650000.000m 4170000.000m	50000.000 m 11353512.558 m	11353622.6559 m 0 15 8.36854	29 21 58.5743 98 29 5.8560

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
TEXAS SOUTH-CENTRAL

Lat	R (meters)	tab diff.	k
27° 50'	11523512.558	30.78861	1.00020323
27 51	11521665.242	30.78846	1.00019574
27 52	11519817.934	30.78831	1.00018834
27 53	11517970.636	30.78816	1.00018101
27 54	11516123.346	30.78801	1.00017377
27 55	11514276.066	30.78786	1.00016662
27 56	11512428.794	30.78772	1.00015954
27 57	11510581.530	30.78758	1.00015255
27 58	11508734.275	30.78745	1.00014564
27 59	11506887.029	30.78731	1.00013882
28 0	11505039.790	30.78718	1.00013208
28 1	11503192.559	30.78705	1.00012542
28 2	11501345.336	30.78693	1.00011884
28 3	11499498.120	30.78680	1.00011235
28 4	11497650.912	30.78668	1.00010594
28 5	11495803.711	30.78656	1.00009962
28 6	11493956.518	30.78645	1.00009337
28 7	11492109.331	30.78633	1.00008721
28 8	11490262.151	30.78622	1.00008114
28 9	11488414.978	30.78611	1.00007515
28 10	11486567.811	30.78601	1.00006924
28 11	11484720.650	30.78590	1.00006341
28 12	11482873.496	30.78580	1.00005767
28 13	11481026.348	30.78571	1.00005201
28 14	11479179.205	30.78561	1.00004643
28 15	11477332.069	30.78552	1.00004094
28 16	11475484.938	30.78543	1.00003553
28 17	11473637.812	30.78534	1.00003020
28 18	11471790.692	30.78526	1.00002496
28 19	11469943.576	30.78517	1.00001980
28 20	11468096.466	30.78509	1.00001473
28 21	11466249.360	30.78502	1.00000973
28 22	11464402.259	30.78494	1.00000483
28 23	11462555.163	30.78487	1.00000000
28 24	11460708.071	30.78480	0.99999526
28 25	11458860.982	30.78473	0.99999060
28 26	11457013.898	30.78467	0.99998602
28 27	11455166.818	30.78461	0.99998153
28 28	11453319.742	30.78455	0.99997712
28 29	11451472.669	30.78449	0.99997280

Lambert conformal conic projection tables
TEXAS SOUTH-CENTRAL

Lat	R (meters)	tab diff.	k
28° 30'	11449625.599	30.78444	0.99996856
28 31	11447778.533	30.78439	0.99996440
28 32	11445931.470	30.78434	0.99996033
28 33	11444084.409	30.78429	0.99995633
28 34	11442237.352	30.78425	0.99995243
28 35	11440390.297	30.78421	0.99994860
28 36	11438543.244	30.78417	0.99994486
28 37	11436696.194	30.78414	0.99994121
28 38	11434849.146	30.78410	0.99993764
28 39	11433002.099	30.78407	0.99993415
28 40	11431155.055	30.78404	0.99993074
28 41	11429308.012	30.78402	0.99992742
28 42	11427460.971	30.78400	0.99992418
28 43	11425613.931	30.78398	0.99992103
28 44	11423766.893	30.78396	0.99991795
28 45	11421919.855	30.78395	0.99991497
28 46	11420072.819	30.78393	0.99991206
28 47	11418225.783	30.78392	0.99990924
28 48	11416378.747	30.78392	0.99990651
28 49	11414531.712	30.78391	0.99990386
28 50	11412684.677	30.78391	0.99990129
28 51	11410837.643	30.78391	0.99989880
28 52	11408990.608	30.78391	0.99989640
28 53	11407143.573	30.78392	0.99989408
28 54	11405296.538	30.78393	0.99989185
28 55	11403449.502	30.78394	0.99988970
28 56	11401602.466	30.78396	0.99988764
28 57	11399755.428	30.78397	0.99988565
28 58	11397908.390	30.78399	0.99988376
28 59	11396061.351	30.78401	0.99988194
29 0	11394214.310	30.78404	0.99988021
29 1	11392367.268	30.78406	0.99987857
29 2	11390520.224	30.78409	0.99987700
29 3	11388673.178	30.78413	0.99987552
29 4	11386826.131	30.78416	0.99987413
29 5	11384979.081	30.78420	0.99987282
29 6	11383132.029	30.78424	0.99987159
29 7	11381284.975	30.78428	0.99987045
29 8	11379437.918	30.78433	0.99986939
29 9	11377590.858	30.78437	0.99986842

Lambert conformal conic projection tables
TEXAS SOUTH-CENTRAL

Lat	R (meters)	tab diff.	k
29° 10'	11375743.796	30.78442	0.99986753
29 11	11373896.730	30.78448	0.99986672
29 12	11372049.662	30.78453	0.99986600
29 13	11370202.590	30.78459	0.99986536
29 14	11368355.514	30.78465	0.99986480
29 15	11366508.435	30.78472	0.99986433
29 16	11364661.352	30.78478	0.99986395
29 17	11362814.265	30.78485	0.99986365
29 18	11360967.174	30.78492	0.99986343
29 19	11359120.079	30.78500	0.99986329
29 20	11357272.979	30.78507	0.99986324
29 21	11355425.874	30.78515	0.99986328
29 22	11353578.765	30.78524	0.99986340
29 23	11351731.651	30.78532	0.99986360
29 24	11349884.532	30.78541	0.99986389
29 25	11348037.407	30.78550	0.99986426
29 26	11346190.278	30.78559	0.99986471
29 27	11344343.142	30.78568	0.99986525
29 28	11342496.001	30.78578	0.99986588
29 29	11340648.854	30.78588	0.99986659
29 30	11338801.701	30.78598	0.99986738
29 31	11336954.542	30.78609	0.99986826
29 32	11335107.377	30.78620	0.99986922
29 33	11333260.205	30.78631	0.99987026
29 34	11331413.026	30.78642	0.99987139
29 35	11329565.841	30.78654	0.99987261
29 36	11327718.649	30.78666	0.99987391
29 37	11325871.449	30.78678	0.99987529
29 38	11324024.243	30.78690	0.99987676
29 39	11322177.028	30.78703	0.99987831
29 40	11320329.807	30.78716	0.99987995
29 41	11318482.577	30.78729	0.99988167
29 42	11316635.340	30.78742	0.99988347
29 43	11314788.094	30.78756	0.99988536
29 44	11312940.841	30.78770	0.99988734
29 45	11311093.578	30.78784	0.99988939
29 46	11309246.308	30.78799	0.99989154
29 47	11307399.029	30.78814	0.99989377
29 48	11305551.740	30.78829	0.99989608
29 49	11303704.443	30.78844	0.99989848

Lambert conformal conic projection tables
TEXAS SOUTH-CENTRAL

Lat	R (meters)	tab diff.	k
29° 50'	11301857.137	30.78859	0.99990096
29 51	11300009.821	30.78875	0.99990352
29 52	11298162.496	30.78891	0.99990618
29 53	11296315.161	30.78908	0.99990891
29 54	11294467.817	30.78924	0.99991173
29 55	11292620.462	30.78941	0.99991464
29 56	11290773.097	30.78958	0.99991763
29 57	11288925.722	30.78976	0.99992070
29 58	11287078.337	30.78993	0.99992386
29 59	11285230.941	30.79011	0.99992710
30 0	11283383.534	30.79029	0.99993043
30 1	11281536.116	30.79048	0.99993385
30 2	11279688.688	30.79067	0.99993734
30 3	11277841.248	30.79086	0.99994093
30 4	11275993.796	30.79105	0.99994459
30 5	11274146.334	30.79124	0.99994835
30 6	11272298.859	30.79144	0.99995218
30 7	11270451.373	30.79164	0.99995611
30 8	11268603.874	30.79184	0.99996011
30 9	11266756.363	30.79205	0.99996421
30 10	11264908.841	30.79226	0.99996838
30 11	11263061.305	30.79247	0.99997264
30 12	11261213.757	30.79268	0.99997699
30 13	11259366.196	30.79290	0.99998142
30 14	11257518.622	30.79312	0.99998594
30 15	11255671.035	30.79334	0.99999054
30 16	11253823.435	30.79356	0.99999523
30 17	11251975.821	30.79379	1.00000000
30 18	11250128.194	30.79402	1.00000486
30 19	11248280.553	30.79425	1.00000980
30 20	11246432.898	30.79449	1.00001483
30 21	11244585.228	30.79472	1.00001994
30 22	11242737.545	30.79496	1.00002513
30 23	11240889.847	30.79521	1.00003042
30 24	11239042.135	30.79545	1.00003578
30 25	11237194.408	30.79570	1.00004124
30 26	11235346.666	30.79595	1.00004678
30 27	11233498.909	30.79620	1.00005240
30 28	11231651.137	30.79646	1.00005811
30 29	11229803.350	30.79672	1.00006390

Lambert conformal conic projection tables
TEXAS SOUTH-CENTRAL

Lat	R (meters)	tab diff.	k
30° 30'	11227955.547	30.79698	1.00006978
30 31	11226107.728	30.79724	1.00007574
30 32	11224259.894	30.79751	1.00008179
30 33	11222412.043	30.79778	1.00008793
30 34	11220564.176	30.79805	1.00009415
30 35	11218716.294	30.79832	1.00010045
30 36	11216868.394	30.79860	1.00010684
30 37	11215020.478	30.79888	1.00011332
30 38	11213172.545	30.79916	1.00011988
30 39	11211324.596	30.79945	1.00012653
30 40	11209476.629	30.79974	1.00013326
30 41	11207628.645	30.80003	1.00014007
30 42	11205780.643	30.80032	1.00014698
30 43	11203932.624	30.80061	1.00015397
30 44	11202084.587	30.80091	1.00016104
30 45	11200236.532	30.80121	1.00016820
30 46	11198388.460	30.80152	1.00017544
30 47	11196540.369	30.80182	1.00018277
30 48	11194692.259	30.80213	1.00019019
30 49	11192844.131	30.80244	1.00019769
30 50	11190995.985	30.80276	1.00020528

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is UTAH CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 38° 20' (latitude of grid origin)
λ_{CM} = 111 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 39 1 (southern standard parallel)
ϕ_n = 40 39 (northern standard parallel)
E. = 500000.0000 m (easting coordinate of origin)
N_b =2000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.640578595825 = sin(ϕ.)
K = 12415886.8989 m (mapping radius at the equator)
R_b = 7822240.6085 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	39 50 0.00000 112 0 0.00000	7655712.924 m -0 19 13.04147	-0.0055900737 0.9999843754	457204.001 m 2166647.302 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000m 2170000.000m	50000.000 m 7652240.609 m	7652403.9576 m 0 22 27.72207	39 51 47.2980 110 54 56.0863

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
UTAH CENTRAL

Lat	R (meters)	tab diff.	k
38° 20'	7822240.609	30.84139	1.00023848
38 21	7820390.125	30.84125	1.00023100
38 22	7818539.650	30.84111	1.00022361
38 23	7816689.183	30.84098	1.00021631
38 24	7814838.725	30.84084	1.00020908
38 25	7812988.274	30.84071	1.00020194
38 26	7811137.832	30.84058	1.00019488
38 27	7809287.397	30.84046	1.00018790
38 28	7807436.970	30.84033	1.00018101
38 29	7805586.550	30.84021	1.00017419
38 30	7803736.137	30.84009	1.00016746
38 31	7801885.731	30.83998	1.00016082
38 32	7800035.333	30.83986	1.00015425
38 33	7798184.941	30.83975	1.00014777
38 34	7796334.555	30.83965	1.00014138
38 35	7794484.177	30.83954	1.00013506
38 36	7792633.804	30.83944	1.00012883
38 37	7790783.438	30.83934	1.00012268
38 38	7788933.078	30.83924	1.00011661
38 39	7787082.723	30.83915	1.00011063
38 40	7785232.374	30.83905	1.00010473
38 41	7783382.031	30.83896	1.00009891
38 42	7781531.693	30.83888	1.00009318
38 43	7779681.361	30.83879	1.00008752
38 44	7777831.034	30.83871	1.00008196
38 45	7775980.711	30.83863	1.00007647
38 46	7774130.393	30.83855	1.00007107
38 47	7772280.080	30.83848	1.00006575
38 48	7770429.772	30.83840	1.00006051
38 49	7768579.467	30.83834	1.00005536
38 50	7766729.167	30.83827	1.00005029
38 51	7764878.871	30.83820	1.00004530
38 52	7763028.579	30.83814	1.00004039
38 53	7761178.290	30.83808	1.00003557
38 54	7759328.005	30.83803	1.00003084
38 55	7757477.724	30.83797	1.00002618
38 56	7755627.445	30.83792	1.00002161
38 57	7753777.170	30.83787	1.00001712
38 58	7751926.898	30.83783	1.00001272
38 59	7750076.628	30.83778	1.00000839

Lambert conformal conic projection tables
UTAH CENTRAL

Lat	R (meters)	tab diff.	k
39° 0'	7748226.361	30.83774	1.00000416
39 1	7746376.097	30.83770	1.00000000
39 2	7744525.834	30.83767	0.99999593
39 3	7742675.574	30.83763	0.99999194
39 4	7740825.316	30.83760	0.99998803
39 5	7738975.060	30.83757	0.99998421
39 6	7737124.806	30.83755	0.99998047
39 7	7735274.553	30.83753	0.99997682
39 8	7733424.301	30.83751	0.99997325
39 9	7731574.051	30.83749	0.99996976
39 10	7729723.802	30.83747	0.99996635
39 11	7727873.553	30.83746	0.99996303
39 12	7726023.306	30.83745	0.99995979
39 13	7724173.059	30.83744	0.99995664
39 14	7722322.812	30.83744	0.99995357
39 15	7720472.566	30.83744	0.99995058
39 16	7718622.320	30.83744	0.99994768
39 17	7716772.074	30.83744	0.99994486
39 18	7714921.827	30.83744	0.99994212
39 19	7713071.581	30.83745	0.99993947
39 20	7711221.333	30.83746	0.99993690
39 21	7709371.086	30.83748	0.99993442
39 22	7707520.837	30.83749	0.99993201
39 23	7705670.588	30.83751	0.99992970
39 24	7703820.337	30.83753	0.99992746
39 25	7701970.085	30.83755	0.99992531
39 26	7700119.832	30.83758	0.99992324
39 27	7698269.577	30.83761	0.99992126
39 28	7696419.321	30.83764	0.99991936
39 29	7694569.062	30.83767	0.99991755
39 30	7692718.802	30.83771	0.99991581
39 31	7690868.539	30.83775	0.99991417
39 32	7689018.274	30.83779	0.99991260
39 33	7687168.006	30.83784	0.99991112
39 34	7685317.736	30.83788	0.99990973
39 35	7683467.463	30.83793	0.99990841
39 36	7681617.187	30.83799	0.99990719
39 37	7679766.908	30.83804	0.99990604
39 38	7677916.626	30.83810	0.99990498
39 39	7676066.340	30.83816	0.99990401

Lambert conformal conic projection tables
UTAH CENTRAL

Lat	R (meters)	tab diff.	k
39° 40'	7674216.050	30.83822	0.99990311
39 41	7672365.757	30.83828	0.99990231
39 42	7670515.460	30.83835	0.99990158
39 43	7668665.159	30.83842	0.99990094
39 44	7666814.854	30.83850	0.99990039
39 45	7664964.544	30.83857	0.99989992
39 46	7663114.230	30.83865	0.99989953
39 47	7661263.911	30.83873	0.99989923
39 48	7659413.587	30.83881	0.99989901
39 49	7657563.258	30.83890	0.99989887
39 50	7655712.924	30.83899	0.99989882
39 51	7653862.585	30.83908	0.99989886
39 52	7652012.240	30.83917	0.99989897
39 53	7650161.889	30.83927	0.99989918
39 54	7648311.533	30.83937	0.99989946
39 55	7646461.171	30.83947	0.99989983
39 56	7644610.803	30.83957	0.99990029
39 57	7642760.428	30.83968	0.99990083
39 58	7640910.048	30.83979	0.99990145
39 59	7639059.660	30.83990	0.99990216
40 0	7637209.266	30.84002	0.99990296
40 1	7635358.865	30.84014	0.99990383
40 2	7633508.457	30.84026	0.99990479
40 3	7631658.041	30.84038	0.99990584
40 4	7629807.619	30.84050	0.99990697
40 5	7627957.188	30.84063	0.99990819
40 6	7626106.751	30.84076	0.99990949
40 7	7624256.305	30.84089	0.99991087
40 8	7622405.851	30.84103	0.99991234
40 9	7620555.389	30.84117	0.99991390
40 10	7618704.919	30.84131	0.99991554
40 11	7616854.441	30.84145	0.99991726
40 12	7615003.954	30.84160	0.99991907
40 13	7613153.458	30.84175	0.99992096
40 14	7611302.953	30.84190	0.99992294
40 15	7609452.439	30.84205	0.99992500
40 16	7607601.916	30.84221	0.99992715
40 17	7605751.383	30.84237	0.99992938
40 18	7603900.841	30.84253	0.99993170
40 19	7602050.289	30.84270	0.99993410

Lambert conformal conic projection tables
UTAH CENTRAL

Lat	R (meters)	tab diff.	k
40° 20'	7600199.727	30.84286	0.99993659
40 21	7598349.155	30.84303	0.99993916
40 22	7596498.573	30.84321	0.99994182
40 23	7594647.981	30.84338	0.99994456
40 24	7592797.378	30.84356	0.99994739
40 25	7590946.765	30.84374	0.99995030
40 26	7589096.141	30.84392	0.99995329
40 27	7587245.505	30.84411	0.99995638
40 28	7585394.859	30.84429	0.99995954
40 29	7583544.201	30.84449	0.99996279
40 30	7581693.532	30.84468	0.99996613
40 31	7579842.851	30.84488	0.99996955
40 32	7577992.159	30.84507	0.99997306
40 33	7576141.454	30.84528	0.99997665
40 34	7574290.738	30.84548	0.99998033
40 35	7572440.009	30.84569	0.99998410
40 36	7570589.268	30.84590	0.99998794
40 37	7568738.514	30.84611	0.99999188
40 38	7566887.748	30.84632	0.99999590
40 39	7565036.968	30.84654	1.00000000
40 40	7563186.176	30.84676	1.00000419
40 41	7561335.370	30.84698	1.00000846
40 42	7559484.552	30.84721	1.00001282
40 43	7557633.719	30.84743	1.00001727
40 44	7555782.873	30.84767	1.00002180
40 45	7553932.013	30.84790	1.00002642
40 46	7552081.139	30.84813	1.00003112
40 47	7550230.251	30.84837	1.00003591
40 48	7548379.349	30.84861	1.00004078
40 49	7546528.432	30.84886	1.00004574
40 50	7544677.501	30.84910	1.00005078
40 51	7542826.554	30.84935	1.00005591
40 52	7540975.593	30.84960	1.00006113
40 53	7539124.617	30.84986	1.00006643
40 54	7537273.626	30.85012	1.00007182
40 55	7535422.619	30.85037	1.00007729
40 56	7533571.596	30.85064	1.00008285
40 57	7531720.558	30.85090	1.00008849
40 58	7529869.504	30.85117	1.00009422
40 59	7528018.434	30.85144	1.00010004

Lambert conformal conic projection tables
UTAH CENTRAL

Lat	R (meters)	tab diff.	k
41° 0'	7526167.347	30.85171	1.00010594
41 1	7524316.244	30.85199	1.00011193
41 2	7522465.125	30.85227	1.00011800
41 3	7520613.989	30.85255	1.00012416
41 4	7518762.836	30.85283	1.00013041
41 5	7516911.667	30.85312	1.00013674
41 6	7515060.480	30.85341	1.00014315
41 7	7513209.275	30.85370	1.00014966
41 8	7511358.053	30.85399	1.00015625
41 9	7509506.814	30.85429	1.00016292
41 10	7507655.557	30.85459	1.00016968

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is UTAH NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 40° 20' (latitude of grid origin)
λ_{CM} = 111 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 40 43 (southern standard parallel)
ϕ_n = 41 47 (northern standard parallel)
E. = 500000.0000 m (easting coordinate of origin)
N_b =1000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.659355481817 = sin(ϕ.)
K = 12238904.9538 m (mapping radius at the equator)
R_b = 7384852.1452 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E.$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	41 15 0.00000 112 0 0.00000	7283056.488 m -0 19 46.83987	-0.0057539303 0.9999834460	458093.801 m 1101916.221 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	550000.000m 1110000.000m	50000.000 m 7274852.145 m	7275023.9680 m 0 23 37.63403	41 19 20.3859 110 54 9.9701

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
UTAH NORTH

Lat	R (meters)	tab diff.	k
40° 20'	7384852.145	30.84730	1.00008395
40 21	7383001.307	30.84725	1.00007938
40 22	7381150.472	30.84720	1.00007490
40 23	7379299.640	30.84715	1.00007050
40 24	7377448.811	30.84711	1.00006618
40 25	7375597.984	30.84707	1.00006195
40 26	7373747.160	30.84703	1.00005780
40 27	7371896.338	30.84700	1.00005373
40 28	7370045.518	30.84697	1.00004975
40 29	7368194.700	30.84694	1.00004585
40 30	7366343.884	30.84691	1.00004203
40 31	7364493.069	30.84689	1.00003830
40 32	7362642.256	30.84686	1.00003465
40 33	7360791.444	30.84684	1.00003108
40 34	7358940.634	30.84683	1.00002760
40 35	7357089.824	30.84681	1.00002420
40 36	7355239.015	30.84680	1.00002088
40 37	7353388.207	30.84679	1.00001765
40 38	7351537.400	30.84679	1.00001450
40 39	7349686.593	30.84678	1.00001143
40 40	7347835.786	30.84678	1.00000845
40 41	7345984.979	30.84678	1.00000555
40 42	7344134.172	30.84678	1.00000273
40 43	7342283.365	30.84679	1.00000000
40 44	7340432.558	30.84680	0.99999735
40 45	7338581.750	30.84681	0.99999479
40 46	7336730.941	30.84683	0.99999231
40 47	7334880.131	30.84684	0.99998991
40 48	7333029.321	30.84686	0.99998760
40 49	7331178.509	30.84688	0.99998537
40 50	7329327.696	30.84691	0.99998322
40 51	7327476.882	30.84694	0.99998116
40 52	7325626.065	30.84697	0.99997918
40 53	7323775.248	30.84700	0.99997728
40 54	7321924.428	30.84703	0.99997547
40 55	7320073.606	30.84707	0.99997374
40 56	7318222.782	30.84711	0.99997210
40 57	7316371.955	30.84715	0.99997054
40 58	7314521.126	30.84720	0.99996907
40 59	7312670.294	30.84725	0.99996768

Lambert conformal conic projection tables
UTAH NORTH

Lat	R (meters)	tab diff.	k
41° 0'	7310819.459	30.84730	0.99996637
41 1	7308968.622	30.84735	0.99996514
41 2	7307117.781	30.84740	0.99996400
41 3	7305266.936	30.84746	0.99996295
41 4	7303416.089	30.84752	0.99996198
41 5	7301565.237	30.84759	0.99996109
41 6	7299714.382	30.84765	0.99996029
41 7	7297863.523	30.84772	0.99995957
41 8	7296012.659	30.84779	0.99995893
41 9	7294161.792	30.84787	0.99995838
41 10	7292310.920	30.84794	0.99995791
41 11	7290460.043	30.84802	0.99995753
41 12	7288609.162	30.84810	0.99995723
41 13	7286758.276	30.84819	0.99995702
41 14	7284907.384	30.84828	0.99995689
41 15	7283056.488	30.84836	0.99995684
41 16	7281205.586	30.84846	0.99995688
41 17	7279354.679	30.84855	0.99995700
41 18	7277503.765	30.84865	0.99995721
41 19	7275652.847	30.84875	0.99995750
41 20	7273801.922	30.84885	0.99995788
41 21	7271950.991	30.84896	0.99995834
41 22	7270100.053	30.84906	0.99995888
41 23	7268249.109	30.84917	0.99995951
41 24	7266398.159	30.84929	0.99996022
41 25	7264547.202	30.84940	0.99996102
41 26	7262696.237	30.84952	0.99996190
41 27	7260845.266	30.84964	0.99996287
41 28	7258994.288	30.84977	0.99996392
41 29	7257143.302	30.84989	0.99996506
41 30	7255292.308	30.85002	0.99996628
41 31	7253441.307	30.85015	0.99996759
41 32	7251590.298	30.85029	0.99996898
41 33	7249739.281	30.85042	0.99997045
41 34	7247888.255	30.85056	0.99997201
41 35	7246037.222	30.85070	0.99997365
41 36	7244186.180	30.85085	0.99997538
41 37	7242335.129	30.85099	0.99997720
41 38	7240484.069	30.85114	0.99997910
41 39	7238633.000	30.85130	0.99998108

Lambert conformal conic projection tables
UTAH NORTH

Lat	R (meters)	tab diff.	k
41° 40'	7236781.923	30.85145	0.99998315
41 41	7234930.836	30.85161	0.99998530
41 42	7233079.739	30.85177	0.99998754
41 43	7231228.633	30.85193	0.99998986
41 44	7229377.517	30.85210	0.99999227
41 45	7227526.391	30.85226	0.99999476
41 46	7225675.255	30.85244	0.99999734
41 47	7223824.109	30.85261	1.00000000
41 48	7221972.953	30.85278	1.00000275
41 49	7220121.786	30.85296	1.00000558
41 50	7218270.608	30.85314	1.00000850
41 51	7216419.419	30.85333	1.00001150
41 52	7214568.220	30.85351	1.00001459
41 53	7212717.009	30.85370	1.00001776
41 54	7210865.786	30.85390	1.00002102
41 55	7209014.553	30.85409	1.00002436
41 56	7207163.307	30.85429	1.00002779
41 57	7205312.050	30.85449	1.00003130
41 58	7203460.781	30.85469	1.00003490
41 59	7201609.500	30.85489	1.00003859
42 0	7199758.206	30.85510	1.00004236
42 1	7197906.900	30.85531	1.00004621
42 2	7196055.581	30.85552	1.00005015
42 3	7194204.250	30.85574	1.00005418
42 4	7192352.905	30.85596	1.00005829
42 5	7190501.548	30.85618	1.00006249
42 6	7188650.177	30.85640	1.00006677
42 7	7186798.793	30.85663	1.00007114
42 8	7184947.396	30.85686	1.00007559
42 9	7183095.984	30.85709	1.00008013
42 10	7181244.559	30.85732	1.00008475
42 11	7179393.120	30.85756	1.00008946
42 12	7177541.666	30.85780	1.00009426
42 13	7175690.198	30.85804	1.00009914
42 14	7173838.716	30.85828	1.00010410
42 15	7171987.219	30.85853	1.00010915
42 16	7170135.707	30.85878	1.00011429
42 17	7168284.180	30.85903	1.00011952
42 18	7166432.638	30.85929	1.00012482
42 19	7164581.081	30.85955	1.00013022

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is UTAH SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 36° 40' (latitude of grid origin)
λ_{CM} = 111 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 37 13 (southern standard parallel)
ϕ_n = 38 21 (northern standard parallel)
E_o = 500000.0000 m (easting coordinate of origin)
N_b =3000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.612687337233 = $\sin(\phi_o)$
K = 12719504.1729 m (mapping radius at the equator)
R_b = 8361336.2313 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	37 47 0.00000 112 0 0.00000	8237404.710 m -0 18 22.83721	-0.0053466802 0.9999857064	455957.231 m 3124049.264 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	$E - E_o$ $R_b-(N - N_b)$	R γ	Latitude Longitude
sample 2	550000.000m 3130000.000m	50000.000 m 8231336.231 m	8231488.0886 m 0 20 52.90878	37 50 11.9120 110 55 55.0601

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
UTAH SOUTH

Lat	R (meters)	tab diff.	k
36° 40'	8361336.231	30.82966	1.00013973
36 41	8359486.452	30.82957	1.00013417
36 42	8357636.678	30.82949	1.00012868
36 43	8355786.908	30.82941	1.00012328
36 44	8353937.144	30.82934	1.00011796
36 45	8352087.384	30.82926	1.00011273
36 46	8350237.628	30.82919	1.00010758
36 47	8348387.876	30.82912	1.00010251
36 48	8346538.129	30.82906	1.00009753
36 49	8344688.386	30.82899	1.00009263
36 50	8342838.646	30.82893	1.00008781
36 51	8340988.910	30.82887	1.00008307
36 52	8339139.178	30.82882	1.00007842
36 53	8337289.448	30.82877	1.00007385
36 54	8335439.722	30.82872	1.00006937
36 55	8333589.999	30.82867	1.00006497
36 56	8331740.279	30.82862	1.00006065
36 57	8329890.562	30.82858	1.00005641
36 58	8328040.847	30.82854	1.00005226
36 59	8326191.135	30.82850	1.00004819
37 0	8324341.424	30.82847	1.00004421
37 1	8322491.716	30.82844	1.00004031
37 2	8320642.010	30.82841	1.00003649
37 3	8318792.306	30.82838	1.00003275
37 4	8316942.603	30.82836	1.00002910
37 5	8315092.902	30.82833	1.00002554
37 6	8313243.202	30.82831	1.00002205
37 7	8311393.503	30.82830	1.00001865
37 8	8309543.805	30.82828	1.00001533
37 9	8307694.108	30.82827	1.00001210
37 10	8305844.412	30.82826	1.00000895
37 11	8303994.716	30.82826	1.00000588
37 12	8302145.020	30.82825	1.00000290
37 13	8300295.325	30.82825	1.00000000
37 14	8298445.630	30.82825	0.99999718
37 15	8296595.935	30.82826	0.99999445
37 16	8294746.239	30.82826	0.99999180
37 17	8292896.544	30.82827	0.99998924
37 18	8291046.847	30.82829	0.99998676
37 19	8289197.150	30.82830	0.99998436

Lambert conformal conic projection tables
UTAH SOUTH

Lat	R (meters)	tab diff.	k
37° 20'	8287347.452	30.82832	0.99998205
37 21	8285497.753	30.82834	0.99997982
37 22	8283648.053	30.82836	0.99997767
37 23	8281798.351	30.82838	0.99997561
37 24	8279948.648	30.82841	0.99997363
37 25	8278098.944	30.82844	0.99997174
37 26	8276249.237	30.82847	0.99996992
37 27	8274399.529	30.82851	0.99996820
37 28	8272549.818	30.82855	0.99996655
37 29	8270700.106	30.82859	0.99996500
37 30	8268850.390	30.82863	0.99996352
37 31	8267000.673	30.82868	0.99996213
37 32	8265150.952	30.82872	0.99996082
37 33	8263301.229	30.82877	0.99995960
37 34	8261451.502	30.82883	0.99995846
37 35	8259601.773	30.82888	0.99995740
37 36	8257752.040	30.82894	0.99995643
37 37	8255902.303	30.82900	0.99995554
37 38	8254052.563	30.82907	0.99995474
37 39	8252202.819	30.82913	0.99995402
37 40	8250353.071	30.82920	0.99995339
37 41	8248503.319	30.82927	0.99995284
37 42	8246653.562	30.82935	0.99995237
37 43	8244803.801	30.82943	0.99995199
37 44	8242954.036	30.82951	0.99995169
37 45	8241104.265	30.82959	0.99995147
37 46	8239254.490	30.82967	0.99995134
37 47	8237404.710	30.82976	0.99995130
37 48	8235554.924	30.82985	0.99995134
37 49	8233705.133	30.82994	0.99995146
37 50	8231855.337	30.83004	0.99995167
37 51	8230005.534	30.83013	0.99995196
37 52	8228155.726	30.83024	0.99995233
37 53	8226305.912	30.83034	0.99995279
37 54	8224456.092	30.83044	0.99995334
37 55	8222606.265	30.83055	0.99995397
37 56	8220756.432	30.83066	0.99995468
37 57	8218906.592	30.83078	0.99995548
37 58	8217056.746	30.83089	0.99995636
37 59	8215206.892	30.83101	0.99995732

Lambert conformal conic projection tables
UTAH SOUTH

Lat	R (meters)	tab diff.	k
38° 0'	8213357.032	30.83113	0.99995838
38 1	8211507.164	30.83126	0.99995951
38 2	8209657.288	30.83138	0.99996073
38 3	8207807.405	30.83151	0.99996204
38 4	8205957.515	30.83164	0.99996342
38 5	8204107.616	30.83178	0.99996490
38 6	8202257.709	30.83192	0.99996646
38 7	8200407.794	30.83205	0.99996810
38 8	8198557.871	30.83220	0.99996983
38 9	8196707.939	30.83234	0.99997164
38 10	8194857.999	30.83249	0.99997354
38 11	8193008.049	30.83264	0.99997552
38 12	8191158.091	30.83279	0.99997759
38 13	8189308.124	30.83295	0.99997974
38 14	8187458.147	30.83311	0.99998197
38 15	8185608.160	30.83327	0.99998429
38 16	8183758.164	30.83343	0.99998670
38 17	8181908.158	30.83360	0.99998919
38 18	8180058.143	30.83376	0.99999176
38 19	8178208.117	30.83394	0.99999442
38 20	8176358.081	30.83411	0.99999717
38 21	8174508.034	30.83429	1.00000000
38 22	8172657.977	30.83446	1.00000291
38 23	8170807.909	30.83465	1.00000591
38 24	8168957.830	30.83483	1.00000900
38 25	8167107.740	30.83502	1.00001217
38 26	8165257.639	30.83521	1.00001542
38 27	8163407.527	30.83540	1.00001876
38 28	8161557.403	30.83559	1.00002219
38 29	8159707.267	30.83579	1.00002570
38 30	8157857.120	30.83599	1.00002929
38 31	8156006.960	30.83620	1.00003298
38 32	8154156.788	30.83640	1.00003674
38 33	8152306.604	30.83661	1.00004059
38 34	8150456.408	30.83682	1.00004453
38 35	8148606.199	30.83703	1.00004855
38 36	8146755.977	30.83725	1.00005265
38 37	8144905.742	30.83747	1.00005685
38 38	8143055.494	30.83769	1.00006112
38 39	8141205.232	30.83791	1.00006549

Lambert conformal conic projection tables
UTAH SOUTH

Lat	R (meters)	tab diff.	k
38° 40'	8139354.958	30.83814	1.00006993
38 41	8137504.669	30.83837	1.00007447
38 42	8135654.367	30.83860	1.00007908
38 43	8133804.051	30.83883	1.00008379
38 44	8131953.721	30.83907	1.00008858
38 45	8130103.377	30.83931	1.00009345
38 46	8128253.018	30.83955	1.00009841
38 47	8126402.645	30.83980	1.00010346
38 48	8124552.257	30.84005	1.00010859
38 49	8122701.854	30.84030	1.00011380
38 50	8120851.436	30.84055	1.00011911

TRANSVERSE MERCATOR PROJECTION

TABLES FOR VERMONT COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: VERMONT
ZONE CODE: 4400

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

ϕ_b = 42°30' (latitude of grid origin)
λ_b = 72°30' (longitude of origin and Central Meridian, CM)
E_0 = 500000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999964 (scale along Central Meridian)
latitude range from ϕ_{min} = 42°30' to ϕ_{max} = 45°20'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 43°15'23".54600
LONGITUDE: 73°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.25637550
TABULAR (I) = 83314.7513
23.54600 sec = 726.6152
SECOND DIFF = -0.0006
(I) = 84041.3658
TABULAR (II) = 3746.6300
23.54600 sec = 0.0535
(II) = 3746.6837
TABULAR (III) = 1.6147
$N = (I) + (II)p^2 + (III)p^4$ = 84287.636 m

TABULAR (IV) = 225574.1675
23.54600 sec = -24.1409
SECOND DIFF = 0.0023
(IV) = 225550.0289
TABULAR (V) = 5.5623
23.54600 sec = -0.0208
(V) = 5.5415
TABULAR (VI) = -0.0300
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -57825.595 m
$E = E_0 + E'$ = 442174.405 m

TABULAR (XII) = 6851.8299
23.54600 sec = 0.8314
(XII) = 6852.6613
TABULAR (XIII) = 2.8786
$C = (XII)p + (XIII)p^3$ = -1756".90

$q = 10^{-6}\Delta\lambda$ = -0.05782559
TABULAR (XVI) = 0.012297
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00000540

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6}\ \Delta\lambda = -0.05782559$
$\phi' = 43°15'31''.52641$

TABULAR	(VII) =	2386.0272
31.52641 sec	=	0.7261
	(VII) =	2386.7532
TABULAR	(VIII) =	37.1779
31.52641 sec	=	0.0192
	(VIII) =	37.1971

$\phi = \phi' - (VII)q^2 + (VIII)q^4 = 43°15'23''.54600$

TABULAR	(IX) =	44331.3173
31.52641 sec	=	6.3540
SECOND DIFF	=	-0.0013
	(IX) =	44337.6701
TABULAR	(X) =	502.1727
31.52641 sec	=	0.2677
	(X) =	502.4404
TABULAR	(XI) =	10.7867
31.52641 sec	=	0.0100
	(XI) =	10.7967

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 73°12'43''.75499$

TABULAR	(XIV) =	30375.0646
31.52641 sec	=	9.2896
SECOND DIFF	=	-0.0012
	(XIV) =	30384.3530
TABULAR	(XV) =	466.8061
31.52641 sec	=	0.2772
	(XV) =	467.0832

$C = (XIV)q - (XV)q^3 = -1756''.90$

TABULAR (XVI) = 0.012297

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00000540$

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°30'	-0.0000	30.855332	3739.1837	0.003222	1.669
	228322.4337	-1.010782	7.9736	-0.000902	-0.030
42°31'	1851.3199	30.855422	3739.3770	0.003201	1.668
	228261.7868	-1.011105	7.9195	-0.000902	-0.030
42°32'	3702.6453	30.855513	3739.5691	0.003180	1.667
	228201.1205	-1.011429	7.8654	-0.000901	-0.030
42°33'	5553.9760	30.855603	3739.7599	0.003159	1.666
	228140.4347	-1.011752	7.8113	-0.000901	-0.030
42°34'	7405.3122	30.855693	3739.9494	0.003138	1.665
	228079.7296	-1.012076	7.7572	-0.000901	-0.030
42°35'	9256.6538	30.855783	3740.1377	0.003117	1.663
	228019.0050	-1.012399	7.7032	-0.000900	-0.030
42°36'	11108.0007	30.855873	3740.3247	0.003096	1.662
	227958.2611	-1.012723	7.6492	-0.000900	-0.030
42°37'	12959.3531	30.855963	3740.5104	0.003074	1.661
	227897.4977	-1.013046	7.5952	-0.000899	-0.030
42°38'	14810.7109	30.856053	3740.6949	0.003053	1.660
	227836.7150	-1.013369	7.5412	-0.000899	-0.030
42°39'	16662.0741	30.856143	3740.8781	0.003032	1.659
	227775.9128	-1.013692	7.4873	-0.000899	-0.030
42°40'	18513.4426	30.856233	3741.0600	0.003011	1.657
	227715.0913	-1.014015	7.4334	-0.000898	-0.030
42°41'	20364.8166	30.856323	3741.2407	0.002990	1.656
	227654.2504	-1.014338	7.3795	-0.000898	-0.030
42°42'	22216.1960	30.856413	3741.4201	0.002969	1.655
	227593.3902	-1.014660	7.3256	-0.000897	-0.030
42°43'	24067.5809	30.856504	3741.5982	0.002948	1.654
	227532.5106	-1.014983	7.2718	-0.000897	-0.030
42°44'	25918.9711	30.856594	3741.7751	0.002927	1.653
	227471.6116	-1.015306	7.2180	-0.000896	-0.030
42°45'	27770.3667	30.856684	3741.9507	0.002906	1.651
	227410.6932	-1.015628	7.1642	-0.000896	-0.030
42°46'	29621.7677	30.856774	3742.1251	0.002885	1.650
	227349.7555	-1.015951	7.1104	-0.000896	-0.030
42°47'	31473.1742	30.856864	3742.2981	0.002864	1.649
	227288.7985	-1.016273	7.0567	-0.000895	-0.030
42°48'	33324.5860	30.856954	3742.4700	0.002842	1.648
	227227.8221	-1.016595	7.0030	-0.000895	-0.030
42°49'	35176.0033	30.857044	3742.6405	0.002821	1.646
	227166.8264	-1.016917	6.9493	-0.000894	-0.030
42°50'	37027.4259	30.857135	3742.8098	0.002800	1.645
	227105.8114	-1.017240	6.8956	-0.000894	-0.030
42°51'	38878.8540	30.857225	3742.9778	0.002779	1.644
	227044.7770	-1.017562	6.8420	-0.000894	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°52'	40730.2875	30.857315	3743.1445	0.002758	1.643
	226983.7233	-1.017883	6.7884	-0.000893	-0.030
42°53'	42581.7264	30.857405	3743.3100	0.002737	1.642
	226922.6503	-1.018205	6.7348	-0.000893	-0.030
42°54'	44433.1707	30.857495	3743.4742	0.002716	1.640
	226861.5580	-1.018527	6.6812	-0.000892	-0.030
42°55'	46284.6204	30.857585	3743.6372	0.002695	1.639
	226800.4464	-1.018849	6.6277	-0.000892	-0.030
42°56'	48136.0755	30.857676	3743.7988	0.002674	1.638
	226739.3154	-1.019170	6.5742	-0.000891	-0.030
42°57'	49987.5361	30.857766	3743.9593	0.002652	1.637
	226678.1652	-1.019492	6.5207	-0.000891	-0.030
42°58'	51839.0020	30.857856	3744.1184	0.002631	1.636
	226616.9957	-1.019813	6.4672	-0.000891	-0.030
42°59'	53690.4734	30.857946	3744.2763	0.002610	1.634
	226555.8069	-1.020135	6.4138	-0.000890	-0.030
43° 0'	55541.9502	30.858036	3744.4329	0.002589	1.633
	226494.5988	-1.020456	6.3604	-0.000890	-0.030
43° 1'	57393.4323	30.858127	3744.5882	0.002568	1.632
	226433.3715	-1.020777	6.3070	-0.000889	-0.030
43° 2'	59244.9199	30.858217	3744.7423	0.002547	1.631
	226372.1249	-1.021098	6.2536	-0.000889	-0.030
43° 3'	61096.4129	30.858307	3744.8951	0.002526	1.629
	226310.8590	-1.021419	6.2003	-0.000888	-0.030
43° 4'	62947.9114	30.858397	3745.0467	0.002505	1.628
	226249.5738	-1.021740	6.1470	-0.000888	-0.030
43° 5'	64799.4152	30.858487	3745.1969	0.002483	1.627
	226188.2694	-1.022061	6.0937	-0.000888	-0.030
43° 6'	66650.9244	30.858578	3745.3460	0.002462	1.626
	226126.9458	-1.022382	6.0404	-0.000887	-0.030
43° 7'	68502.4391	30.858668	3745.4937	0.002441	1.625
	226065.6029	-1.022702	5.9872	-0.000887	-0.030
43° 8'	70353.9592	30.858758	3745.6402	0.002420	1.623
	226004.2408	-1.023023	5.9340	-0.000886	-0.030
43° 9'	72205.4847	30.858848	3745.7854	0.002399	1.622
	225942.8594	-1.023343	5.8808	-0.000886	-0.030
43°10'	74057.0156	30.858939	3745.9293	0.002378	1.621
	225881.4588	-1.023664	5.8277	-0.000885	-0.030
43°11'	75908.5519	30.859029	3746.0720	0.002357	1.620
	225820.0390	-1.023984	5.7745	-0.000885	-0.030
43°12'	77760.0936	30.859119	3746.2134	0.002336	1.618
	225758.5999	-1.024304	5.7214	-0.000885	-0.030
43°13'	79611.6407	30.859209	3746.3535	0.002315	1.617
	225697.1417	-1.024624	5.6683	-0.000884	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°14'	81463.1933	30.859300	3746.4924	0.002293	1.616
	225635.6642	-1.024944	5.6153	-0.000884	-0.030
43°15'	83314.7513	30.859390	3746.6300	0.002272	1.615
	225574.1675	-1.025264	5.5623	-0.000883	-0.030
43°16'	85166.3147	30.859480	3746.7663	0.002251	1.613
	225512.6517	-1.025584	5.5093	-0.000883	-0.030
43°17'	87017.8835	30.859570	3746.9014	0.002230	1.612
	225451.1166	-1.025904	5.4563	-0.000882	-0.030
43°18'	88869.4577	30.859661	3747.0352	0.002209	1.611
	225389.5624	-1.026224	5.4033	-0.000882	-0.030
43°19'	90721.0373	30.859751	3747.1677	0.002188	1.610
	225327.9889	-1.026544	5.3504	-0.000882	-0.030
43°20'	92572.6224	30.859841	3747.2990	0.002167	1.608
	225266.3963	-1.026863	5.2975	-0.000881	-0.030
43°21'	94424.2128	30.859931	3747.4290	0.002145	1.607
	225204.7845	-1.027183	5.2447	-0.000881	-0.030
43°22'	96275.8087	30.860022	3747.5577	0.002124	1.606
	225143.1536	-1.027502	5.1918	-0.000880	-0.030
43°23'	98127.4100	30.860112	3747.6852	0.002103	1.605
	225081.5034	-1.027821	5.1390	-0.000880	-0.030
43°24'	99979.0167	30.860202	3747.8114	0.002082	1.604
	225019.8342	-1.028141	5.0862	-0.000879	-0.030
43°25'	101830.6289	30.860293	3747.9363	0.002061	1.602
	224958.1457	-1.028460	5.0334	-0.000879	-0.030
43°26'	103682.2464	30.860383	3748.0600	0.002040	1.601
	224896.4382	-1.028779	4.9807	-0.000879	-0.030
43°27'	105533.8694	30.860473	3748.1823	0.002019	1.600
	224834.7114	-1.029098	4.9280	-0.000878	-0.030
43°28'	107385.4978	30.860563	3748.3035	0.001998	1.599
	224772.9656	-1.029417	4.8753	-0.000878	-0.030
43°29'	109237.1316	30.860654	3748.4233	0.001976	1.597
	224711.2006	-1.029735	4.8226	-0.000877	-0.030
43°30'	111088.7708	30.860744	3748.5419	0.001955	1.596
	224649.4165	-1.030054	4.7700	-0.000877	-0.030
43°31'	112940.4155	30.860834	3748.6592	0.001934	1.595
	224587.6132	-1.030373	4.7174	-0.000876	-0.030
43°32'	114792.0655	30.860925	3748.7753	0.001913	1.594
	224525.7909	-1.030691	4.6648	-0.000876	-0.030
43°33'	116643.7210	30.861015	3748.8900	0.001892	1.592
	224463.9494	-1.031010	4.6122	-0.000875	-0.030
43°34'	118495.3819	30.861105	3749.0035	0.001871	1.591
	224402.0888	-1.031328	4.5597	-0.000875	-0.030
43°35'	120347.0482	30.861196	3749.1158	0.001850	1.590
	224340.2091	-1.031646	4.5072	-0.000875	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

VERMONT Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°36'	122198.7200	30.861286	3749.2268	0.001828	1.589
	224278.3103	-1.031965	4.4547	-0.000874	-0.030
43°37'	124050.3971	30.861376	3749.3365	0.001807	1.587
	224216.3925	-1.032283	4.4023	-0.000874	-0.030
43°38'	125902.0797	30.861467	3749.4449	0.001786	1.586
	224154.4555	-1.032601	4.3499	-0.000873	-0.030
43°39'	127753.7677	30.861557	3749.5521	0.001765	1.585
	224092.4995	-1.032919	4.2975	-0.000873	-0.030
43°40'	129605.4611	30.861647	3749.6580	0.001744	1.584
	224030.5244	-1.033236	4.2451	-0.000872	-0.030
43°41'	131457.1599	30.861738	3749.7626	0.001723	1.582
	223968.5302	-1.033554	4.1927	-0.000872	-0.030
43°42'	133308.8642	30.861828	3749.8659	0.001701	1.581
	223906.5169	-1.033872	4.1404	-0.000872	-0.030
43°43'	135160.5739	30.861918	3749.9680	0.001680	1.580
	223844.4846	-1.034190	4.0881	-0.000871	-0.030
43°44'	137012.2890	30.862009	3750.0688	0.001659	1.579
	223782.4332	-1.034507	4.0359	-0.000871	-0.030
43°45'	138864.0095	30.862099	3750.1684	0.001638	1.577
	223720.3628	-1.034824	3.9836	-0.000870	-0.030
43°46'	140715.7354	30.862189	3750.2667	0.001617	1.576
	223658.2733	-1.035142	3.9314	-0.000870	-0.030
43°47'	142567.4668	30.862280	3750.3637	0.001596	1.575
	223596.1648	-1.035459	3.8793	-0.000869	-0.030
43°48'	144419.2036	30.862370	3750.4594	0.001575	1.574
	223534.0373	-1.035776	3.8271	-0.000869	-0.030
43°49'	146270.9458	30.862460	3750.5539	0.001553	1.572
	223471.8907	-1.036093	3.7750	-0.000868	-0.030
43°50'	148122.6934	30.862551	3750.6471	0.001532	1.571
	223409.7251	-1.036410	3.7229	-0.000868	-0.030
43°51'	149974.4465	30.862641	3750.7391	0.001511	1.570
	223347.5405	-1.036727	3.6708	-0.000867	-0.030
43°52'	151826.2049	30.862732	3750.8297	0.001490	1.569
	223285.3369	-1.037044	3.6187	-0.000867	-0.030
43°53'	153677.9688	30.862822	3750.9191	0.001469	1.567
	223223.1142	-1.037361	3.5667	-0.000867	-0.030
43°54'	155529.7381	30.862912	3751.0073	0.001448	1.566
	223160.8726	-1.037677	3.5147	-0.000866	-0.030
43°55'	157381.5129	30.863003	3751.0941	0.001427	1.565
	223098.6119	-1.037994	3.4628	-0.000866	-0.030
43°56'	159233.2930	30.863093	3751.1797	0.001405	1.564
	223036.3323	-1.038311	3.4108	-0.000865	-0.030
43°57'	161085.0786	30.863183	3751.2640	0.001384	1.562
	222974.0337	-1.038627	3.3589	-0.000865	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°58'	162936.8696	30.863274	3751.3471	0.001363	1.561
	222911.7160	-1.038943	3.3070	-0.000864	-0.030
43°59'	164788.6660	30.863364	3751.4289	0.001342	1.560
	222849.3794	-1.039259	3.2552	-0.000864	-0.030
44° 0'	166640.4679	30.863455	3751.5094	0.001321	1.559
	222787.0239	-1.039576	3.2033	-0.000863	-0.030
44° 1'	168492.2752	30.863545	3751.5886	0.001300	1.557
	222724.6493	-1.039892	3.1515	-0.000863	-0.030
44° 2'	170344.0879	30.863635	3751.6666	0.001278	1.556
	222662.2558	-1.040208	3.0998	-0.000862	-0.030
44° 3'	172195.9060	30.863726	3751.7433	0.001257	1.555
	222599.8434	-1.040523	3.0480	-0.000862	-0.030
44° 4'	174047.7295	30.863816	3751.8187	0.001236	1.553
	222537.4120	-1.040839	2.9963	-0.000862	-0.030
44° 5'	175899.5585	30.863907	3751.8929	0.001215	1.552
	222474.9616	-1.041155	2.9446	-0.000861	-0.030
44° 6'	177751.3929	30.863997	3751.9658	0.001194	1.551
	222412.4923	-1.041471	2.8929	-0.000861	-0.030
44° 7'	179603.2327	30.864087	3752.0374	0.001173	1.550
	222350.0041	-1.041786	2.8413	-0.000860	-0.030
44° 8'	181455.0779	30.864178	3752.1078	0.001151	1.548
	222287.4969	-1.042102	2.7897	-0.000860	-0.030
44° 9'	183306.9286	30.864268	3752.1769	0.001130	1.547
	222224.9708	-1.042417	2.7381	-0.000859	-0.030
44°10'	185158.7847	30.864359	3752.2447	0.001109	1.546
	222162.4258	-1.042732	2.6865	-0.000859	-0.030
44°11'	187010.6462	30.864449	3752.3112	0.001088	1.545
	222099.8619	-1.043047	2.6350	-0.000858	-0.030
44°12'	188862.5132	30.864539	3752.3765	0.001067	1.543
	222037.2790	-1.043363	2.5835	-0.000858	-0.030
44°13'	190714.3855	30.864630	3752.4405	0.001046	1.542
	221974.6773	-1.043678	2.5320	-0.000857	-0.030
44°14'	192566.2633	30.864720	3752.5032	0.001024	1.541
	221912.0566	-1.043993	2.4806	-0.000857	-0.030
44°15'	194418.1465	30.864811	3752.5647	0.001003	1.540
	221849.4171	-1.044307	2.4292	-0.000857	-0.030
44°16'	196270.0352	30.864901	3752.6249	0.000982	1.538
	221786.7586	-1.044622	2.3778	-0.000856	-0.030
44°17'	198121.9292	30.864991	3752.6838	0.000961	1.537
	221724.0813	-1.044937	2.3264	-0.000856	-0.030
44°18'	199973.8287	30.865082	3752.7415	0.000940	1.536
	221661.3851	-1.045251	2.2751	-0.000855	-0.030
44°19'	201825.7336	30.865172	3752.7979	0.000919	1.534
	221598.6700	-1.045566	2.2238	-0.000855	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°20'	203677.6440	30.865263	3752.8530	0.000897	1.533
	221535.9360	-1.045880	2.1725	-0.000854	-0.030
44°21'	205529.5597	30.865353	3752.9068	0.000876	1.532
	221473.1832	-1.046195	2.1212	-0.000854	-0.030
44°22'	207381.4809	30.865444	3752.9594	0.000855	1.531
	221410.4115	-1.046509	2.0700	-0.000853	-0.030
44°23'	209233.4075	30.865534	3753.0107	0.000834	1.529
	221347.6210	-1.046823	2.0188	-0.000853	-0.030
44°24'	211085.3396	30.865624	3753.0608	0.000813	1.528
	221284.8116	-1.047137	1.9677	-0.000852	-0.030
44°25'	212937.2771	30.865715	3753.1095	0.000792	1.527
	221221.9834	-1.047451	1.9165	-0.000852	-0.030
44°26'	214789.2200	30.865805	3753.1570	0.000770	1.525
	221159.1363	-1.047765	1.8654	-0.000851	-0.030
44°27'	216641.1683	30.865896	3753.2033	0.000749	1.524
	221096.2704	-1.048079	1.8143	-0.000851	-0.031
44°28'	218493.1220	30.865986	3753.2482	0.000728	1.523
	221033.3857	-1.048393	1.7633	-0.000850	-0.031
44°29'	220345.0812	30.866077	3753.2919	0.000707	1.522
	220970.4822	-1.048706	1.7122	-0.000850	-0.031
44°30'	222197.0458	30.866167	3753.3343	0.000686	1.520
	220907.5598	-1.049020	1.6612	-0.000850	-0.031
44°31'	224049.0158	30.866258	3753.3755	0.000665	1.519
	220844.6186	-1.049333	1.6103	-0.000849	-0.031
44°32'	225900.9913	30.866348	3753.4153	0.000643	1.518
	220781.6586	-1.049647	1.5593	-0.000849	-0.031
44°33'	227752.9722	30.866438	3753.4539	0.000622	1.517
	220718.6798	-1.049960	1.5084	-0.000848	-0.031
44°34'	229604.9585	30.866529	3753.4913	0.000601	1.515
	220655.6822	-1.050273	1.4575	-0.000848	-0.031
44°35'	231456.9502	30.866619	3753.5273	0.000580	1.514
	220592.6659	-1.050586	1.4067	-0.000847	-0.031
44°36'	233308.9474	30.866710	3753.5621	0.000559	1.513
	220529.6307	-1.050899	1.3558	-0.000847	-0.031
44°37'	235160.9500	30.866800	3753.5957	0.000538	1.511
	220466.5767	-1.051212	1.3050	-0.000846	-0.031
44°38'	237012.9580	30.866891	3753.6279	0.000516	1.510
	220403.5040	-1.051525	1.2543	-0.000846	-0.031
44°39'	238864.9714	30.866981	3753.6589	0.000495	1.509
	220340.4125	-1.051838	1.2035	-0.000845	-0.031
44°40'	240716.9903	30.867072	3753.6886	0.000474	1.508
	220277.3023	-1.052150	1.1528	-0.000845	-0.031
44°41'	242569.0146	30.867162	3753.7171	0.000453	1.506
	220214.1732	-1.052463	1.1021	-0.000844	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

VERMONT — Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°42'	244421.0443	30.867253	3753.7442	0.000432	1.505
	220151.0255	-1.052775	1.0515	-0.000844	-0.031
44°43'	246273.0795	30.867343	3753.7701	0.000411	1.504
	220087.8589	-1.053088	1.0008	-0.000843	-0.031
44°44'	248125.1200	30.867433	3753.7948	0.000389	1.502
	220024.6737	-1.053400	0.9502	-0.000843	-0.031
44°45'	249977.1661	30.867524	3753.8181	0.000368	1.501
	219961.4697	-1.053712	0.8997	-0.000842	-0.031
44°46'	251829.2175	30.867614	3753.8402	0.000347	1.500
	219898.2469	-1.054025	0.8491	-0.000842	-0.031
44°47'	253681.2744	30.867705	3753.8610	0.000326	1.499
	219835.0054	-1.054337	0.7986	-0.000841	-0.031
44°48'	255533.3366	30.867795	3753.8806	0.000305	1.497
	219771.7452	-1.054649	0.7481	-0.000841	-0.031
44°49'	257385.4044	30.867886	3753.8989	0.000283	1.496
	219708.4663	-1.054961	0.6977	-0.000840	-0.031
44°50'	259237.4775	30.867976	3753.9159	0.000262	1.495
	219645.1687	-1.055272	0.6472	-0.000840	-0.031
44°51'	261089.5561	30.868067	3753.9316	0.000241	1.493
	219581.8523	-1.055584	0.5968	-0.000840	-0.031
44°52'	262941.6401	30.868157	3753.9461	0.000220	1.492
	219518.5173	-1.055896	0.5465	-0.000839	-0.031
44°53'	264793.7295	30.868248	3753.9593	0.000199	1.491
	219455.1636	-1.056207	0.4961	-0.000839	-0.031
44°54'	266645.8244	30.868338	3753.9712	0.000178	1.490
	219391.7911	-1.056519	0.4458	-0.000838	-0.031
44°55'	268497.9247	30.868429	3753.9818	0.000156	1.488
	219328.4000	-1.056830	0.3955	-0.000838	-0.031
44°56'	270350.0304	30.868519	3753.9912	0.000135	1.487
	219264.9902	-1.057141	0.3453	-0.000837	-0.031
44°57'	272202.1415	30.868609	3753.9993	0.000114	1.486
	219201.5617	-1.057453	0.2951	-0.000837	-0.031
44°58'	274054.2581	30.868700	3754.0062	0.000093	1.484
	219138.1146	-1.057764	0.2449	-0.000836	-0.031
44°59'	275906.3801	30.868790	3754.0118	0.000072	1.483
	219074.6487	-1.058075	0.1947	-0.000836	-0.031
45° 0'	277758.5075	30.868881	3754.0161	0.000051	1.482
	219011.1643	-1.058386	0.1446	-0.000835	-0.031
45° 1'	279610.6404	30.868971	3754.0191	0.000029	1.480
	218947.6611	-1.058696	0.0944	-0.000835	-0.031
45° 2'	281462.7786	30.869062	3754.0209	0.000008	1.479
	218884.1393	-1.059007	0.0444	-0.000834	-0.031
45° 3'	283314.9224	30.869152	3754.0214	-0.000013	1.478
	218820.5989	-1.059318	-0.0057	-0.000834	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

VERMONT Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
45° 4'	285167.0715	30.869243	3754.0206	-0.000034	1.477
	218757.0398	-1.059628	-0.0557	-0.000833	-0.031
45° 5'	287019.2261	30.869333	3754.0185	-0.000055	1.475
	218693.4621	-1.059939	-0.1057	-0.000833	-0.031
45° 6'	288871.3861	30.869424	3754.0152	-0.000077	1.474
	218629.8658	-1.060249	-0.1557	-0.000832	-0.031
45° 7'	290723.5515	30.869514	3754.0106	-0.000098	1.473
	218566.2509	-1.060560	-0.2056	-0.000832	-0.031
45° 8'	292575.7223	30.869605	3754.0047	-0.000119	1.471
	218502.6173	-1.060870	-0.2555	-0.000831	-0.031
45° 9'	294427.8986	30.869695	3753.9976	-0.000140	1.470
	218438.9651	-1.061180	-0.3054	-0.000831	-0.031
45°10'	296280.0803	30.869786	3753.9892	-0.000161	1.469
	218375.2943	-1.061490	-0.3552	-0.000830	-0.031
45°11'	298132.2675	30.869876	3753.9795	-0.000182	1.467
	218311.6049	-1.061800	-0.4050	-0.000830	-0.031
45°12'	299984.4600	30.869967	3753.9686	-0.000204	1.466
	218247.8969	-1.062110	-0.4548	-0.000829	-0.031
45°13'	301836.6580	30.870057	3753.9564	-0.000225	1.465
	218184.1703	-1.062420	-0.5046	-0.000829	-0.031
45°14'	303688.8614	30.870148	3753.9429	-0.000246	1.464
	218120.4251	-1.062729	-0.5543	-0.000828	-0.031
45°15'	305541.0703	30.870238	3753.9281	-0.000267	1.462
	218056.6614	-1.063039	-0.6040	-0.000828	-0.031
45°16'	307393.2846	30.870328	3753.9121	-0.000288	1.461
	217992.8790	-1.063348	-0.6537	-0.000827	-0.031
45°17'	309245.5043	30.870419	3753.8948	-0.000309	1.460
	217929.0781	-1.063658	-0.7033	-0.000827	-0.031
45°18'	311097.7294	30.870509	3753.8762	-0.000331	1.458
	217865.2586	-1.063967	-0.7529	-0.000826	-0.031
45°19'	312949.9600	30.870600	3753.8564	-0.000352	1.457
	217801.4206	-1.064276	-0.8025	-0.000826	-0.031
45°20'	314802.1960	30.870690	3753.8353	-0.000373	1.456
	217737.5640	-1.064586	-0.8521	-0.000825	-0.031

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

VERMONT — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°30'	-0.0000	30.855332	2324.6097	0.022481	35.584
	43797.7112	0.193944	479.9913	0.007957	9.970
42°31'	1851.3199	30.855422	2325.9585	0.022493	35.618
	43809.3478	0.194109	480.4688	0.007969	9.987
42°32'	3702.6453	30.855513	2327.3081	0.022505	35.653
	43820.9943	0.194274	480.9469	0.007980	10.005
42°33'	5553.9760	30.855603	2328.6584	0.022517	35.687
	43832.6508	0.194440	481.4257	0.007992	10.022
42°34'	7405.3122	30.855693	2330.0095	0.022529	35.722
	43844.3172	0.194606	481.9052	0.008003	10.040
42°35'	9256.6538	30.855783	2331.3612	0.022541	35.756
	43855.9935	0.194772	482.3854	0.008015	10.057
42°36'	11108.0007	30.855873	2332.7136	0.022553	35.791
	43867.6798	0.194938	482.8663	0.008026	10.075
42°37'	12959.3531	30.855963	2334.0668	0.022565	35.826
	43879.3760	0.195104	483.3479	0.008038	10.092
42°38'	14810.7109	30.856053	2335.4207	0.022577	35.861
	43891.0823	0.195270	483.8301	0.008049	10.110
42°39'	16662.0741	30.856143	2336.7753	0.022589	35.895
	43902.7985	0.195437	484.3131	0.008061	10.127
42°40'	18513.4426	30.856233	2338.1306	0.022601	35.930
	43914.5247	0.195604	484.7968	0.008073	10.145
42°41'	20364.8166	30.856323	2339.4867	0.022613	35.965
	43926.2609	0.195770	485.2811	0.008084	10.163
42°42'	22216.1960	30.856413	2340.8435	0.022625	36.000
	43938.0071	0.195938	485.7662	0.008096	10.180
42°43'	24067.5809	30.856504	2342.2010	0.022637	36.035
	43949.7634	0.196105	486.2519	0.008108	10.198
42°44'	25918.9711	30.856594	2343.5592	0.022649	36.070
	43961.5297	0.196272	486.7384	0.008119	10.216
42°45'	27770.3667	30.856684	2344.9181	0.022661	36.105
	43973.3060	0.196440	487.2255	0.008131	10.234
42°46'	29621.7677	30.856774	2346.2778	0.022673	36.140
	43985.0924	0.196607	487.7134	0.008143	10.252
42°47'	31473.1742	30.856864	2347.6382	0.022685	36.175
	43996.8888	0.196775	488.2019	0.008154	10.269
42°48'	33324.5860	30.856954	2348.9993	0.022697	36.211
	44008.6954	0.196944	488.6912	0.008166	10.287
42°49'	35176.0033	30.857044	2350.3611	0.022710	36.246
	44020.5120	0.197112	489.1812	0.008178	10.305
42°50'	37027.4259	30.857135	2351.7237	0.022722	36.281
	44032.3387	0.197280	489.6719	0.008190	10.323
42°51'	38878.8540	30.857225	2353.0870	0.022734	36.317
	44044.1755	0.197449	490.1633	0.008202	10.341

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

VERMONT Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°52'	40730.2875	30.857315	2354.4511	0.022746	36.352
	44056.0224	0.197618	490.6554	0.008214	10.360
42°53'	42581.7264	30.857405	2355.8158	0.022758	36.387
	44067.8795	0.197786	491.1482	0.008225	10.378
42°54'	44433.1707	30.857495	2357.1813	0.022770	36.423
	44079.7466	0.197956	491.6417	0.008237	10.396
42°55'	46284.6204	30.857585	2358.5475	0.022783	36.458
	44091.6240	0.198125	492.1359	0.008249	10.414
42°56'	48136.0755	30.857676	2359.9145	0.022795	36.494
	44103.5115	0.198294	492.6309	0.008261	10.432
42°57'	49987.5361	30.857766	2361.2822	0.022807	36.529
	44115.4091	0.198464	493.1266	0.008273	10.451
42°58'	51839.0020	30.857856	2362.6506	0.022819	36.565
	44127.3170	0.198634	493.6229	0.008285	10.469
42°59'	53690.4734	30.857946	2364.0198	0.022832	36.601
	44139.2350	0.198804	494.1201	0.008297	10.487
43° 0'	55541.9502	30.858036	2365.3897	0.022844	36.637
	44151.1632	0.198974	494.6179	0.008309	10.506
43° 1'	57393.4323	30.858127	2366.7603	0.022856	36.672
	44163.1016	0.199144	495.1164	0.008321	10.524
43° 2'	59244.9199	30.858217	2368.1317	0.022869	36.708
	44175.0503	0.199315	495.6157	0.008333	10.543
43° 3'	61096.4129	30.858307	2369.5038	0.022881	36.744
	44187.0092	0.199485	496.1157	0.008345	10.561
43° 4'	62947.9114	30.858397	2370.8767	0.022893	36.780
	44198.9783	0.199656	496.6164	0.008358	10.580
43° 5'	64799.4152	30.858487	2372.2503	0.022906	36.816
	44210.9576	0.199827	497.1179	0.008370	10.598
43° 6'	66650.9244	30.858578	2373.6246	0.022918	36.852
	44222.9473	0.199998	497.6201	0.008382	10.617
43° 7'	68502.4391	30.858668	2374.9997	0.022930	36.888
	44234.9472	0.200170	498.1230	0.008394	10.636
43° 8'	70353.9592	30.858758	2376.3755	0.022943	36.924
	44246.9573	0.200341	498.6266	0.008406	10.654
43° 9'	72205.4847	30.858848	2377.7521	0.022955	36.960
	44258.9778	0.200513	499.1310	0.008418	10.673
43°10'	74057.0156	30.858939	2379.1294	0.022968	36.996
	44271.0086	0.200685	499.6361	0.008431	10.692
43°11'	75908.5519	30.859029	2380.5074	0.022980	37.033
	44283.0497	0.200857	500.1419	0.008443	10.711
43°12'	77760.0936	30.859119	2381.8863	0.022993	37.069
	44295.1011	0.201029	500.6485	0.008455	10.730
43°13'	79611.6407	30.859209	2383.2658	0.023005	37.105
	44307.1628	0.201201	501.1558	0.008468	10.749

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

VERMONT — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°14'	81463.1933	30.859300	2384.6461	0.023017	37.142
	44319.2349	0.201374	501.6639	0.008480	10.768
43°15'	83314.7513	30.859390	2386.0272	0.023030	37.178
	44331.3173	0.201547	502.1727	0.008492	10.787
43°16'	85166.3147	30.859480	2387.4090	0.023042	37.214
	44343.4101	0.201720	502.6822	0.008505	10.806
43°17'	87017.8835	30.859570	2388.7915	0.023055	37.251
	44355.5133	0.201893	503.1925	0.008517	10.825
43°18'	88869.4577	30.859661	2390.1748	0.023068	37.287
	44367.6269	0.202066	503.7035	0.008529	10.844
43°19'	90721.0373	30.859751	2391.5589	0.023080	37.324
	44379.7508	0.202239	504.2152	0.008542	10.863
43°20'	92572.6224	30.859841	2392.9437	0.023093	37.361
	44391.8852	0.202413	504.7277	0.008554	10.882
43°21'	94424.2128	30.859931	2394.3292	0.023105	37.397
	44404.0300	0.202587	505.2410	0.008567	10.902
43°22'	96275.8087	30.860022	2395.7155	0.023118	37.434
	44416.1852	0.202761	505.7550	0.008579	10.921
43°23'	98127.4100	30.860112	2397.1026	0.023130	37.471
	44428.3508	0.202935	506.2698	0.008592	10.940
43°24'	99979.0167	30.860202	2398.4904	0.023143	37.508
	44440.5269	0.203109	506.7853	0.008604	10.960
43°25'	101830.6289	30.860293	2399.8790	0.023156	37.545
	44452.7135	0.203284	507.3015	0.008617	10.979
43°26'	103682.2464	30.860383	2401.2684	0.023168	37.582
	44464.9105	0.203459	507.8185	0.008630	10.999
43°27'	105533.8694	30.860473	2402.6585	0.023181	37.619
	44477.1180	0.203633	508.3363	0.008642	11.018
43°28'	107385.4978	30.860563	2404.0493	0.023194	37.656
	44489.3360	0.203809	508.8548	0.008655	11.038
43°29'	109237.1316	30.860654	2405.4410	0.023206	37.693
	44501.5646	0.203984	509.3741	0.008667	11.057
43°30'	111088.7708	30.860744	2406.8334	0.023219	37.730
	44513.8036	0.204159	509.8942	0.008680	11.077
43°31'	112940.4155	30.860834	2408.2265	0.023232	37.767
	44526.0531	0.204335	510.4150	0.008693	11.096
43°32'	114792.0655	30.860925	2409.6204	0.023245	37.804
	44538.3132	0.204511	510.9365	0.008706	11.116
43°33'	116643.7210	30.861015	2411.0151	0.023257	37.841
	44550.5839	0.204687	511.4589	0.008718	11.136
43°34'	118495.3819	30.861105	2412.4106	0.023270	37.879
	44562.8650	0.204863	511.9820	0.008731	11.156
43°35'	120347.0482	30.861196	2413.8068	0.023283	37.916
	44575.1568	0.205039	512.5058	0.008744	11.176

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

VERMONT — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°36'	122198.7200	30.861286	2415.2037	0.023296	37.953
	44587.4591	0.205215	513.0305	0.008757	11.195
43°37'	124050.3971	30.861376	2416.6015	0.023309	37.991
	44599.7721	0.205392	513.5559	0.008770	11.215
43°38'	125902.0797	30.861467	2418.0000	0.023321	38.028
	44612.0956	0.205569	514.0820	0.008782	11.235
43°39'	127753.7677	30.861557	2419.3993	0.023334	38.066
	44624.4297	0.205746	514.6090	0.008795	11.255
43°40'	129605.4611	30.861647	2420.7994	0.023347	38.103
	44636.7745	0.205923	515.1367	0.008808	11.275
43°41'	131457.1599	30.861738	2422.2002	0.023360	38.141
	44649.1299	0.206101	515.6652	0.008821	11.296
43°42'	133308.8642	30.861828	2423.6018	0.023373	38.179
	44661.4960	0.206278	516.1945	0.008834	11.316
43°43'	135160.5739	30.861918	2425.0042	0.023386	38.216
	44673.8727	0.206456	516.7245	0.008847	11.336
43°44'	137012.2890	30.862009	2426.4073	0.023399	38.254
	44686.2600	0.206634	517.2553	0.008860	11.356
43°45'	138864.0095	30.862099	2427.8112	0.023412	38.292
	44698.6581	0.206812	517.7869	0.008873	11.376
43°46'	140715.7354	30.862189	2429.2159	0.023425	38.330
	44711.0668	0.206991	518.3193	0.008886	11.397
43°47'	142567.4668	30.862280	2430.6214	0.023438	38.368
	44723.4862	0.207169	518.8525	0.008899	11.417
43°48'	144419.2036	30.862370	2432.0277	0.023451	38.406
	44735.9164	0.207348	519.3865	0.008912	11.437
43°49'	146270.9458	30.862460	2433.4347	0.023464	38.444
	44748.3572	0.207527	519.9212	0.008925	11.458
43°50'	148122.6934	30.862551	2434.8425	0.023477	38.482
	44760.8088	0.207706	520.4567	0.008939	11.478
43°51'	149974.4465	30.862641	2436.2511	0.023490	38.520
	44773.2712	0.207885	520.9930	0.008952	11.499
43°52'	151826.2049	30.862732	2437.6605	0.023503	38.558
	44785.7443	0.208064	521.5302	0.008965	11.520
43°53'	153677.9688	30.862822	2439.0706	0.023516	38.596
	44798.2282	0.208244	522.0681	0.008978	11.540
43°54'	155529.7381	30.862912	2440.4816	0.023529	38.635
	44810.7228	0.208424	522.6067	0.008991	11.561
43°55'	157381.5129	30.863003	2441.8933	0.023542	38.673
	44823.2282	0.208604	523.1462	0.009005	11.582
43°56'	159233.2930	30.863093	2443.3058	0.023555	38.711
	44835.7445	0.208784	523.6865	0.009018	11.602
43°57'	161085.0786	30.863183	2444.7191	0.023568	38.750
	44848.2715	0.208964	524.2276	0.009031	11.623

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

VERMONT Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°58'	162936.8696	30.863274	2446.1332	0.023581	38.788
	44860.8094	0.209145	524.7695	0.009045	11.644
43°59'	164788.6660	30.863364	2447.5481	0.023594	38.827
	44873.3581	0.209326	525.3121	0.009058	11.665
44° 0'	166640.4679	30.863455	2448.9637	0.023607	38.865
	44885.9176	0.209507	525.8556	0.009071	11.686
44° 1'	168492.2752	30.863545	2450.3802	0.023621	38.904
	44898.4880	0.209688	526.3999	0.009085	11.707
44° 2'	170344.0879	30.863635	2451.7974	0.023634	38.943
	44911.0693	0.209869	526.9450	0.009098	11.728
44° 3'	172195.9060	30.863726	2453.2155	0.023647	38.981
	44923.6614	0.210051	527.4909	0.009112	11.749
44° 4'	174047.7295	30.863816	2454.6343	0.023660	39.020
	44936.2645	0.210232	528.0376	0.009125	11.770
44° 5'	175899.5585	30.863907	2456.0539	0.023674	39.059
	44948.8784	0.210414	528.5851	0.009139	11.791
44° 6'	177751.3929	30.863997	2457.4743	0.023687	39.098
	44961.5033	0.210596	529.1334	0.009152	11.813
44° 7'	179603.2327	30.864087	2458.8955	0.023700	39.137
	44974.1390	0.210779	529.6825	0.009166	11.834
44° 8'	181455.0779	30.864178	2460.3175	0.023713	39.176
	44986.7858	0.210961	530.2325	0.009179	11.855
44° 9'	183306.9286	30.864268	2461.7403	0.023727	39.215
	44999.4434	0.211144	530.7833	0.009193	11.876
44°10'	185158.7847	30.864359	2463.1639	0.023740	39.254
	45012.1120	0.211326	531.3348	0.009207	11.898
44°11'	187010.6462	30.864449	2464.5883	0.023753	39.293
	45024.7916	0.211510	531.8872	0.009220	11.919
44°12'	188862.5132	30.864539	2466.0135	0.023767	39.332
	45037.4822	0.211693	532.4404	0.009234	11.941
44°13'	190714.3855	30.864630	2467.4395	0.023780	39.371
	45050.1838	0.211876	532.9945	0.009248	11.962
44°14'	192566.2633	30.864720	2468.8663	0.023793	39.411
	45062.8963	0.212060	533.5493	0.009261	11.984
44°15'	194418.1465	30.864811	2470.2939	0.023807	39.450
	45075.6199	0.212244	534.1050	0.009275	12.006
44°16'	196270.0352	30.864901	2471.7223	0.023820	39.489
	45088.3545	0.212428	534.6615	0.009289	12.027
44°17'	198121.9292	30.864991	2473.1515	0.023834	39.529
	45101.1002	0.212612	535.2188	0.009303	12.049
44°18'	199973.8287	30.865082	2474.5815	0.023847	39.568
	45113.8569	0.212796	535.7770	0.009316	12.071
44°19'	201825.7336	30.865172	2476.0123	0.023860	39.608
	45126.6246	0.212981	536.3360	0.009330	12.093

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

VERMONT Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°20'	203677.6440	30.865263	2477.4440	0.023874	39.647
	45139.4035	0.213165	536.8958	0.009344	12.115
44°21'	205529.5597	30.865353	2478.8764	0.023887	39.687
	45152.1934	0.213350	537.4565	0.009358	12.136
44°22'	207381.4809	30.865444	2480.3097	0.023901	39.726
	45164.9944	0.213535	538.0179	0.009372	12.158
44°23'	209233.4075	30.865534	2481.7437	0.023914	39.766
	45177.8065	0.213721	538.5803	0.009386	12.180
44°24'	211085.3396	30.865624	2483.1786	0.023928	39.806
	45190.6298	0.213906	539.1434	0.009400	12.203
44°25'	212937.2771	30.865715	2484.6142	0.023941	39.846
	45203.4642	0.214092	539.7074	0.009414	12.225
44°26'	214789.2200	30.865805	2486.0507	0.023955	39.886
	45216.3097	0.214278	540.2723	0.009428	12.247
44°27'	216641.1683	30.865896	2487.4880	0.023969	39.926
	45229.1664	0.214464	540.8379	0.009442	12.269
44°28'	218493.1220	30.865986	2488.9262	0.023982	39.966
	45242.0342	0.214650	541.4045	0.009456	12.291
44°29'	220345.0812	30.866077	2490.3651	0.023996	40.006
	45254.9132	0.214837	541.9718	0.009470	12.314
44°30'	222197.0458	30.866167	2491.8048	0.024009	40.046
	45267.8035	0.215024	542.5400	0.009484	12.336
44°31'	224049.0158	30.866258	2493.2454	0.024023	40.086
	45280.7049	0.215211	543.1091	0.009499	12.358
44°32'	225900.9913	30.866348	2494.6868	0.024037	40.126
	45293.6175	0.215398	543.6790	0.009513	12.381
44°33'	227752.9722	30.866438	2496.1290	0.024050	40.166
	45306.5414	0.215585	544.2498	0.009527	12.403
44°34'	229604.9585	30.866529	2497.5720	0.024064	40.207
	45319.4765	0.215772	544.8214	0.009541	12.426
44°35'	231456.9502	30.866619	2499.0159	0.024078	40.247
	45332.4228	0.215960	545.3939	0.009555	12.449
44°36'	233308.9474	30.866710	2500.4605	0.024092	40.287
	45345.3804	0.216148	545.9672	0.009570	12.471
44°37'	235160.9500	30.866800	2501.9060	0.024105	40.328
	45358.3493	0.216336	546.5414	0.009584	12.494
44°38'	237012.9580	30.866891	2503.3524	0.024119	40.368
	45371.3295	0.216524	547.1164	0.009598	12.517
44°39'	238864.9714	30.866981	2504.7995	0.024133	40.409
	45384.3209	0.216713	547.6923	0.009613	12.540
44°40'	240716.9903	30.867072	2506.2475	0.024147	40.450
	45397.3237	0.216902	548.2691	0.009627	12.562
44°41'	242569.0146	30.867162	2507.6963	0.024160	40.490
	45410.3378	0.217091	548.8467	0.009642	12.585

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

VERMONT Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°42'	244421.0443	30.867253	2509.1459	0.024174	40.531
	45423.3633	0.217280	549.4252	0.009656	12.608
44°43'	246273.0795	30.867343	2510.5963	0.024188	40.572
	45436.4000	0.217469	550.0045	0.009670	12.631
44°44'	248125.1200	30.867433	2512.0476	0.024202	40.613
	45449.4482	0.217658	550.5848	0.009685	12.654
44°45'	249977.1661	30.867524	2513.4997	0.024216	40.654
	45462.5077	0.217848	551.1659	0.009699	12.678
44°46'	251829.2175	30.867614	2514.9527	0.024230	40.695
	45475.5785	0.218038	551.7478	0.009714	12.701
44°47'	253681.2744	30.867705	2516.4065	0.024244	40.736
	45488.6608	0.218228	552.3307	0.009729	12.724
44°48'	255533.3366	30.867795	2517.8611	0.024257	40.777
	45501.7545	0.218418	552.9144	0.009743	12.747
44°49'	257385.4044	30.867886	2519.3165	0.024271	40.818
	45514.8596	0.218609	553.4990	0.009758	12.770
44°50'	259237.4775	30.867976	2520.7728	0.024285	40.859
	45527.9761	0.218800	554.0844	0.009772	12.794
44°51'	261089.5561	30.868067	2522.2299	0.024299	40.900
	45541.1041	0.218990	554.6708	0.009787	12.817
44°52'	262941.6401	30.868157	2523.6879	0.024313	40.941
	45554.2435	0.219182	555.2580	0.009802	12.841
44°53'	264793.7295	30.868248	2525.1467	0.024327	40.983
	45567.3944	0.219373	555.8461	0.009817	12.864
44°54'	266645.8244	30.868338	2526.6063	0.024341	41.024
	45580.5568	0.219564	556.4351	0.009831	12.888
44°55'	268497.9247	30.868429	2528.0668	0.024355	41.065
	45593.7307	0.219756	557.0250	0.009846	12.912
44°56'	270350.0304	30.868519	2529.5281	0.024369	41.107
	45606.9160	0.219948	557.6158	0.009861	12.935
44°57'	272202.1415	30.868609	2530.9903	0.024383	41.148
	45620.1129	0.220140	558.2074	0.009876	12.959
44°58'	274054.2581	30.868700	2532.4533	0.024397	41.190
	45633.3213	0.220333	558.8000	0.009891	12.983
44°59'	275906.3801	30.868790	2533.9171	0.024412	41.232
	45646.5413	0.220525	559.3934	0.009906	13.007
45° 0'	277758.5075	30.868881	2535.3818	0.024426	41.273
	45659.7728	0.220718	559.9878	0.009921	13.031
45° 1'	279610.6404	30.868971	2536.8474	0.024440	41.315
	45673.0159	0.220911	560.5830	0.009935	13.054
45° 2'	281462.7786	30.869062	2538.3137	0.024454	41.357
	45686.2705	0.221104	561.1791	0.009950	13.078
45° 3'	283314.9224	30.869152	2539.7810	0.024468	41.399
	45699.5367	0.221297	561.7761	0.009965	13.103

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

VERMONT — Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
45° 4'	285167.0715	30.869243	2541.2491	0.024482	41.441
	45712.8146	0.221491	562.3741	0.009981	13.127
45° 5'	287019.2261	30.869333	2542.7180	0.024496	41.483
	45726.1040	0.221685	562.9729	0.009996	13.151
45° 6'	288871.3861	30.869424	2544.1878	0.024511	41.525
	45739.4051	0.221879	563.5726	0.010011	13.175
45° 7'	290723.5515	30.869514	2545.6584	0.024525	41.567
	45752.7178	0.222073	564.1733	0.010026	13.199
45° 8'	292575.7223	30.869605	2547.1299	0.024539	41.609
	45766.0422	0.222267	564.7748	0.010041	13.224
45° 9'	294427.8986	30.869695	2548.6023	0.024553	41.651
	45779.3782	0.222462	565.3773	0.010056	13.248
45°10'	296280.0803	30.869786	2550.0755	0.024568	41.694
	45792.7259	0.222657	565.9806	0.010071	13.272
45°11'	298132.2675	30.869876	2551.5496	0.024582	41.736
	45806.0853	0.222852	566.5849	0.010087	13.297
45°12'	299984.4600	30.869967	2553.0245	0.024596	41.778
	45819.4564	0.223047	567.1901	0.010102	13.321
45°13'	301836.6580	30.870057	2554.5002	0.024611	41.821
	45832.8392	0.223242	567.7962	0.010117	13.346
45°14'	303688.8614	30.870148	2555.9769	0.024625	41.863
	45846.2338	0.223438	568.4033	0.010132	13.371
45°15'	305541.0703	30.870238	2557.4544	0.024639	41.906
	45859.6400	0.223634	569.0112	0.010148	13.395
45°16'	307393.2846	30.870328	2558.9327	0.024654	41.948
	45873.0581	0.223830	569.6201	0.010163	13.420
45°17'	309245.5043	30.870419	2560.4120	0.024668	41.991
	45886.4879	0.224026	570.2299	0.010179	13.445
45°18'	311097.7294	30.870509	2561.8921	0.024683	42.034
	45899.9294	0.224223	570.8406	0.010194	13.470
45°19'	312949.9600	30.870600	2563.3730	0.024697	42.077
	45913.3828	0.224419	571.4522	0.010209	13.495
45°20'	314802.1960	30.870690	2564.8548	0.024711	42.119
	45926.8480	0.224616	572.0648	0.010225	13.520

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0008	-0.0013	-0.0015

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°30'	-0.0000	30.855332	6755.9021	0.035739	2.909	
			29589.3048	0.287599	443.807	0.012299
42°31'	1851.3199	30.855422	6758.0464	0.035730	2.908	
			29606.5607	0.287752	444.303	0.012299
42°32'	3702.6453	30.855513	6760.1902	0.035720	2.908	
			29623.8258	0.287905	444.799	0.012299
42°33'	5553.9760	30.855603	6762.3335	0.035711	2.907	
			29641.1001	0.288059	445.296	0.012299
42°34'	7405.3122	30.855693	6764.4761	0.035701	2.906	
			29658.3836	0.288212	445.794	0.012299
42°35'	9256.6538	30.855783	6766.6182	0.035692	2.906	
			29675.6763	0.288366	446.293	0.012299
42°36'	11108.0007	30.855873	6768.7597	0.035682	2.905	
			29692.9783	0.288520	446.792	0.012299
42°37'	12959.3531	30.855963	6770.9006	0.035673	2.904	
			29710.2895	0.288674	447.292	0.012299
42°38'	14810.7109	30.856053	6773.0410	0.035663	2.904	
			29727.6099	0.288828	447.792	0.012299
42°39'	16662.0741	30.856143	6775.1808	0.035654	2.903	
			29744.9396	0.288983	448.293	0.012299
42°40'	18513.4426	30.856233	6777.3200	0.035644	2.902	
			29762.2786	0.289138	448.795	0.012299
42°41'	20364.8166	30.856323	6779.4586	0.035634	2.902	
			29779.6269	0.289292	449.298	0.012299
42°42'	22216.1960	30.856413	6781.5967	0.035625	2.901	
			29796.9844	0.289447	449.801	0.012299
42°43'	24067.5809	30.856504	6783.7342	0.035615	2.900	
			29814.3513	0.289603	450.305	0.012298
42°44'	25918.9711	30.856594	6785.8711	0.035606	2.900	
			29831.7274	0.289758	450.810	0.012298
42°45'	27770.3667	30.856684	6788.0075	0.035596	2.899	
			29849.1129	0.289914	451.315	0.012298
42°46'	29621.7677	30.856774	6790.1432	0.035587	2.898	
			29866.5077	0.290069	451.821	0.012298
42°47'	31473.1742	30.856864	6792.2784	0.035577	2.898	
			29883.9119	0.290225	452.328	0.012298
42°48'	33324.5860	30.856954	6794.4130	0.035567	2.897	
			29901.3254	0.290381	452.836	0.012298
42°49'	35176.0033	30.857044	6796.5471	0.035558	2.896	
			29918.7482	0.290537	453.344	0.012298
42°50'	37027.4259	30.857135	6798.6806	0.035548	2.896	
			29936.1805	0.290694	453.853	0.012298
42°51'	38878.8540	30.857225	6800.8135	0.035539	2.895	
			29953.6221	0.290850	454.362	0.012298

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°52'	40730.2875	30.857315	6802.9458	0.035529	2.894	
			29971.0732	0.291007	454.873	0.012298
42°53'	42581.7264	30.857405	6805.0775	0.035519	2.894	
			29988.5336	0.291164	455.384	0.012298
42°54'	44433.1707	30.857495	6807.2087	0.035510	2.893	
			30006.0034	0.291321	455.895	0.012298
42°55'	46284.6204	30.857585	6809.3393	0.035500	2.892	
			30023.4827	0.291479	456.408	0.012298
42°56'	48136.0755	30.857676	6811.4693	0.035491	2.892	
			30040.9714	0.291636	456.921	0.012298
42°57'	49987.5361	30.857766	6813.5987	0.035481	2.891	
			30058.4696	0.291794	457.435	0.012298
42°58'	51839.0020	30.857856	6815.7276	0.035471	2.890	
			30075.9772	0.291952	457.949	0.012298
42°59'	53690.4734	30.857946	6817.8559	0.035462	2.890	
			30093.4943	0.292110	458.464	0.012298
43° 0'	55541.9502	30.858036	6819.9836	0.035452	2.889	
			30111.0209	0.292268	458.980	0.012298
43° 1'	57393.4323	30.858127	6822.1107	0.035443	2.888	
			30128.5570	0.292426	459.497	0.012298
43° 2'	59244.9199	30.858217	6824.2373	0.035433	2.888	
			30146.1025	0.292585	460.014	0.012298
43° 3'	61096.4129	30.858307	6826.3633	0.035423	2.887	
			30163.6576	0.292743	460.532	0.012297
43° 4'	62947.9114	30.858397	6828.4887	0.035414	2.886	
			30181.2222	0.292902	461.051	0.012297
43° 5'	64799.4152	30.858487	6830.6135	0.035404	2.886	
			30198.7964	0.293061	461.571	0.012297
43° 6'	66650.9244	30.858578	6832.7377	0.035394	2.885	
			30216.3801	0.293221	462.091	0.012297
43° 7'	68502.4391	30.858668	6834.8614	0.035385	2.884	
			30233.9733	0.293380	462.612	0.012297
43° 8'	70353.9592	30.858758	6836.9845	0.035375	2.884	
			30251.5761	0.293540	463.134	0.012297
43° 9'	72205.4847	30.858848	6839.1070	0.035366	2.883	
			30269.1885	0.293700	463.656	0.012297
43°10'	74057.0156	30.858939	6841.2289	0.035356	2.882	
			30286.8105	0.293860	464.179	0.012297
43°11'	75908.5519	30.859029	6843.3503	0.035346	2.881	
			30304.4421	0.294020	464.703	0.012297
43°12'	77760.0936	30.859119	6845.4711	0.035337	2.881	
			30322.0832	0.294180	465.228	0.012297
43°13'	79611.6407	30.859209	6847.5913	0.035327	2.880	
			30339.7340	0.294341	465.753	0.012297

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°14'	81463.1933	30.859300	6849.7109	0.035317	2.879	
			30357.3945	0.294501	466.279	0.012297
43°15'	83314.7513	30.859390	6851.8299	0.035308	2.879	
			30375.0646	0.294662	466.806	0.012297
43°16'	85166.3147	30.859480	6853.9484	0.035298	2.878	
			30392.7443	0.294823	467.334	0.012297
43°17'	87017.8835	30.859570	6856.0662	0.035288	2.877	
			30410.4337	0.294985	467.862	0.012297
43°18'	88869.4577	30.859661	6858.1835	0.035279	2.877	
			30428.1328	0.295146	468.391	0.012297
43°19'	90721.0373	30.859751	6860.3002	0.035269	2.876	
			30445.8415	0.295308	468.921	0.012297
43°20'	92572.6224	30.859841	6862.4164	0.035259	2.875	
			30463.5600	0.295469	469.451	0.012297
43°21'	94424.2128	30.859931	6864.5319	0.035250	2.874	
			30481.2882	0.295631	469.982	0.012297
43°22'	96275.8087	30.860022	6866.6469	0.035240	2.874	
			30499.0260	0.295794	470.514	0.012297
43°23'	98127.4100	30.860112	6868.7613	0.035230	2.873	
			30516.7737	0.295956	471.047	0.012297
43°24'	99979.0167	30.860202	6870.8751	0.035220	2.872	
			30534.5310	0.296119	471.581	0.012296
43°25'	101830.6289	30.860293	6872.9883	0.035211	2.872	
			30552.2981	0.296281	472.115	0.012296
43°26'	103682.2464	30.860383	6875.1010	0.035201	2.871	
			30570.0750	0.296444	472.650	0.012296
43°27'	105533.8694	30.860473	6877.2131	0.035191	2.870	
			30587.8617	0.296607	473.185	0.012296
43°28'	107385.4978	30.860563	6879.3245	0.035182	2.869	
			30605.6581	0.296771	473.722	0.012296
43°29'	109237.1316	30.860654	6881.4354	0.035172	2.869	
			30623.4643	0.296934	474.259	0.012296
43°30'	111088.7708	30.860744	6883.5458	0.035162	2.868	
			30641.2804	0.297098	474.797	0.012296
43°31'	112940.4155	30.860834	6885.6555	0.035153	2.867	
			30659.1062	0.297262	475.336	0.012296
43°32'	114792.0655	30.860925	6887.7646	0.035143	2.867	
			30676.9419	0.297426	475.875	0.012296
43°33'	116643.7210	30.861015	6889.8732	0.035133	2.866	
			30694.7875	0.297590	476.415	0.012296
43°34'	118495.3819	30.861105	6891.9812	0.035123	2.865	
			30712.6429	0.297754	476.956	0.012296
43°35'	120347.0482	30.861196	6894.0886	0.035114	2.864	
			30730.5081	0.297919	477.498	0.012296

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°36'	122198.7200	30.861286	6896.1954	0.035104	2.864	
			30748.3832	0.298084	478.041	0.012296
43°37'	124050.3971	30.861376	6898.3017	0.035094	2.863	
			30766.2682	0.298249	478.584	0.012296
43°38'	125902.0797	30.861467	6900.4073	0.035085	2.862	
			30784.1632	0.298414	479.128	0.012296
43°39'	127753.7677	30.861557	6902.5124	0.035075	2.861	
			30802.0680	0.298579	479.673	0.012296
43°40'	129605.4611	30.861647	6904.6169	0.035065	2.861	
			30819.9827	0.298745	480.218	0.012296
43°41'	131457.1599	30.861738	6906.7208	0.035055	2.860	
			30837.9074	0.298910	480.765	0.012296
43°42'	133308.8642	30.861828	6908.8241	0.035046	2.859	
			30855.8420	0.299076	481.312	0.012296
43°43'	135160.5739	30.861918	6910.9268	0.035036	2.858	
			30873.7866	0.299242	481.860	0.012296
43°44'	137012.2890	30.862009	6913.0290	0.035026	2.858	
			30891.7411	0.299409	482.408	0.012296
43°45'	138864.0095	30.862099	6915.1306	0.035016	2.857	
			30909.7056	0.299575	482.958	0.012295
43°46'	140715.7354	30.862189	6917.2315	0.035007	2.856	
			30927.6801	0.299742	483.508	0.012295
43°47'	142567.4668	30.862280	6919.3319	0.034997	2.856	
			30945.6646	0.299909	484.059	0.012295
43°48'	144419.2036	30.862370	6921.4317	0.034987	2.855	
			30963.6591	0.300076	484.611	0.012295
43°49'	146270.9458	30.862460	6923.5310	0.034977	2.854	
			30981.6637	0.300243	485.163	0.012295
43°50'	148122.6934	30.862551	6925.6296	0.034968	2.853	
			30999.6783	0.300410	485.716	0.012295
43°51'	149974.4465	30.862641	6927.7276	0.034958	2.853	
			31017.7029	0.300578	486.270	0.012295
43°52'	151826.2049	30.862732	6929.8251	0.034948	2.852	
			31035.7375	0.300746	486.825	0.012295
43°53'	153677.9688	30.862822	6931.9220	0.034938	2.851	
			31053.7823	0.300914	487.381	0.012295
43°54'	155529.7381	30.862912	6934.0183	0.034928	2.850	
			31071.8371	0.301082	487.937	0.012295
43°55'	157381.5129	30.863003	6936.1140	0.034919	2.850	
			31089.9020	0.301250	488.495	0.012295
43°56'	159233.2930	30.863093	6938.2091	0.034909	2.849	
			31107.9770	0.301419	489.053	0.012295
43°57'	161085.0786	30.863183	6940.3036	0.034899	2.848	
			31126.0622	0.301588	489.611	0.012295

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°58'	162936.8696	30.863274	6942.3976	0.034889	2.847	
			31144.1574	0.301757	490.171	0.012295
43°59'	164788.6660	30.863364	6944.4909	0.034879	2.847	
			31162.2628	0.301926	490.731	0.012295
44° 0'	166640.4679	30.863455	6946.5837	0.034870	2.846	
			31180.3784	0.302095	491.293	0.012295
44° 1'	168492.2752	30.863545	6948.6759	0.034860	2.845	
			31198.5041	0.302265	491.855	0.012295
44° 2'	170344.0879	30.863635	6950.7675	0.034850	2.844	
			31216.6400	0.302434	492.417	0.012295
44° 3'	172195.9060	30.863726	6952.8585	0.034840	2.843	
			31234.7860	0.302604	492.981	0.012295
44° 4'	174047.7295	30.863816	6954.9489	0.034830	2.843	
			31252.9423	0.302775	493.545	0.012295
44° 5'	175899.5585	30.863907	6957.0387	0.034821	2.842	
			31271.1088	0.302945	494.110	0.012295
44° 6'	177751.3929	30.863997	6959.1280	0.034811	2.841	
			31289.2855	0.303115	494.676	0.012294
44° 7'	179603.2327	30.864087	6961.2166	0.034801	2.840	
			31307.4724	0.303286	495.243	0.012294
44° 8'	181455.0779	30.864178	6963.3047	0.034791	2.840	
			31325.6696	0.303457	495.811	0.012294
44° 9'	183306.9286	30.864268	6965.3921	0.034781	2.839	
			31343.8770	0.303628	496.379	0.012294
44°10'	185158.7847	30.864359	6967.4790	0.034772	2.838	
			31362.0947	0.303799	496.948	0.012294
44°11'	187010.6462	30.864449	6969.5653	0.034762	2.837	
			31380.3226	0.303971	497.518	0.012294
44°12'	188862.5132	30.864539	6971.6510	0.034752	2.837	
			31398.5609	0.304143	498.089	0.012294
44°13'	190714.3855	30.864630	6973.7361	0.034742	2.836	
			31416.8095	0.304315	498.661	0.012294
44°14'	192566.2633	30.864720	6975.8207	0.034732	2.835	
			31435.0683	0.304487	499.233	0.012294
44°15'	194418.1465	30.864811	6977.9046	0.034722	2.834	
			31453.3375	0.304659	499.807	0.012294
44°16'	196270.0352	30.864901	6979.9879	0.034713	2.833	
			31471.6171	0.304831	500.381	0.012294
44°17'	198121.9292	30.864991	6982.0707	0.034703	2.833	
			31489.9070	0.305004	500.956	0.012294
44°18'	199973.8287	30.865082	6984.1529	0.034693	2.832	
			31508.2072	0.305177	501.531	0.012294
44°19'	201825.7336	30.865172	6986.2344	0.034683	2.831	
			31526.5178	0.305350	502.108	0.012294

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°20'	203677.6440	30.865263	6988.3154	0.034673	2.830	
			31544.8389	0.305523	502.685	0.012294
44°21'	205529.5597	30.865353	6990.3958	0.034663	2.830	
			31563.1703	0.305697	503.264	0.012294
44°22'	207381.4809	30.865444	6992.4756	0.034653	2.829	
			31581.5121	0.305871	503.843	0.012294
44°23'	209233.4075	30.865534	6994.5548	0.034644	2.828	
			31599.8643	0.306045	504.423	0.012294
44°24'	211085.3396	30.865624	6996.6334	0.034634	2.827	
			31618.2270	0.306219	505.003	0.012294
44°25'	212937.2771	30.865715	6998.7114	0.034624	2.826	
			31636.6001	0.306393	505.585	0.012294
44°26'	214789.2200	30.865805	7000.7889	0.034614	2.826	
			31654.9837	0.306567	506.167	0.012294
44°27'	216641.1683	30.865896	7002.8657	0.034604	2.825	
			31673.3777	0.306742	506.750	0.012293
44°28'	218493.1220	30.865986	7004.9419	0.034594	2.824	
			31691.7823	0.306917	507.334	0.012293
44°29'	220345.0812	30.866077	7007.0176	0.034584	2.823	
			31710.1973	0.307092	507.919	0.012293
44°30'	222197.0458	30.866167	7009.0926	0.034574	2.822	
			31728.6228	0.307267	508.505	0.012293
44°31'	224049.0158	30.866258	7011.1671	0.034565	2.822	
			31747.0589	0.307443	509.092	0.012293
44°32'	225900.9913	30.866348	7013.2410	0.034555	2.821	
			31765.5054	0.307619	509.679	0.012293
44°33'	227752.9722	30.866438	7015.3143	0.034545	2.820	
			31783.9626	0.307795	510.267	0.012293
44°34'	229604.9585	30.866529	7017.3869	0.034535	2.819	
			31802.4302	0.307971	510.856	0.012293
44°35'	231456.9502	30.866619	7019.4590	0.034525	2.818	
			31820.9085	0.308147	511.446	0.012293
44°36'	233308.9474	30.866710	7021.5305	0.034515	2.818	
			31839.3973	0.308324	512.037	0.012293
44°37'	235160.9500	30.866800	7023.6014	0.034505	2.817	
			31857.8967	0.308500	512.629	0.012293
44°38'	237012.9580	30.866891	7025.6717	0.034495	2.816	
			31876.4067	0.308677	513.221	0.012293
44°39'	238864.9714	30.866981	7027.7415	0.034485	2.815	
			31894.9274	0.308854	513.814	0.012293
44°40'	240716.9903	30.867072	7029.8106	0.034475	2.814	
			31913.4586	0.309032	514.409	0.012293
44°41'	242569.0146	30.867162	7031.8791	0.034465	2.814	
			31932.0005	0.309209	515.004	0.012293

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°42'	244421.0443	30.867253	7033.9470	0.034456	2.813	
			31950.5531	0.309387	515.600	0.012293
44°43'	246273.0795	30.867343	7036.0144	0.034446	2.812	
			31969.1163	0.309565	516.196	0.012293
44°44'	248125.1200	30.867433	7038.0811	0.034436	2.811	
			31987.6902	0.309743	516.794	0.012293
44°45'	249977.1661	30.867524	7040.1472	0.034426	2.810	
			32006.2748	0.309922	517.392	0.012293
44°46'	251829.2175	30.867614	7042.2128	0.034416	2.810	
			32024.8701	0.310100	517.992	0.012293
44°47'	253681.2744	30.867705	7044.2777	0.034406	2.809	
			32043.4761	0.310279	518.592	0.012293
44°48'	255533.3366	30.867795	7046.3421	0.034396	2.808	
			32062.0928	0.310458	519.193	0.012292
44°49'	257385.4044	30.867886	7048.4059	0.034386	2.807	
			32080.7203	0.310637	519.795	0.012292
44°50'	259237.4775	30.867976	7050.4690	0.034376	2.806	
			32099.3585	0.310817	520.398	0.012292
44°51'	261089.5561	30.868067	7052.5316	0.034366	2.806	
			32118.0075	0.310996	521.002	0.012292
44°52'	262941.6401	30.868157	7054.5936	0.034356	2.805	
			32136.6673	0.311176	521.606	0.012292
44°53'	264793.7295	30.868248	7056.6549	0.034346	2.804	
			32155.3379	0.311356	522.212	0.012292
44°54'	266645.8244	30.868338	7058.7157	0.034336	2.803	
			32174.0192	0.311536	522.818	0.012292
44°55'	268497.9247	30.868429	7060.7759	0.034326	2.802	
			32192.7114	0.311717	523.425	0.012292
44°56'	270350.0304	30.868519	7062.8355	0.034316	2.801	
			32211.4144	0.311897	524.033	0.012292
44°57'	272202.1415	30.868609	7064.8944	0.034306	2.801	
			32230.1283	0.312078	524.642	0.012292
44°58'	274054.2581	30.868700	7066.9528	0.034296	2.800	
			32248.8530	0.312259	525.252	0.012292
44°59'	275906.3801	30.868790	7069.0106	0.034286	2.799	
			32267.5885	0.312441	525.863	0.012292
45° 0'	277758.5075	30.868881	7071.0678	0.034277	2.798	
			32286.3350	0.312622	526.475	0.012292
45° 1'	279610.6404	30.868971	7073.1244	0.034267	2.797	
			32305.0923	0.312804	527.087	0.012292
45° 2'	281462.7786	30.869062	7075.1804	0.034257	2.796	
			32323.8605	0.312986	527.701	0.012292
45° 3'	283314.9224	30.869152	7077.2358	0.034247	2.796	
			32342.6397	0.313168	528.315	0.012292

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

VERMONT Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
45° 4'	285167.0715	30.869243	7079.2906	0.034237	2.795	
			32361.4298	0.313350	528.930	0.012292
45° 5'	287019.2261	30.869333	7081.3448	0.034227	2.794	
			32380.2308	0.313533	529.546	0.012292
45° 6'	288871.3861	30.869424	7083.3984	0.034217	2.793	
			32399.0428	0.313716	530.163	0.012292
45° 7'	290723.5515	30.869514	7085.4514	0.034207	2.792	
			32417.8657	0.313899	530.781	0.012292
45° 8'	292575.7223	30.869605	7087.5038	0.034197	2.791	
			32436.6997	0.314082	531.400	0.012291
45° 9'	294427.8986	30.869695	7089.5556	0.034187	2.791	
			32455.5446	0.314265	532.020	0.012291
45°10'	296280.0803	30.869786	7091.6068	0.034177	2.790	
			32474.4005	0.314449	532.640	0.012291
45°11'	298132.2675	30.869876	7093.6574	0.034167	2.789	
			32493.2675	0.314633	533.262	0.012291
45°12'	299984.4600	30.869967	7095.7074	0.034157	2.788	
			32512.1454	0.314817	533.884	0.012291
45°13'	301836.6580	30.870057	7097.7568	0.034147	2.787	
			32531.0345	0.315001	534.507	0.012291
45°14'	303688.8614	30.870148	7099.8056	0.034137	2.786	
			32549.9345	0.315186	535.132	0.012291
45°15'	305541.0703	30.870238	7101.8538	0.034127	2.786	
			32568.8457	0.315371	535.757	0.012291
45°16'	307393.2846	30.870328	7103.9014	0.034117	2.785	
			32587.7679	0.315556	536.383	0.012291
45°17'	309245.5043	30.870419	7105.9483	0.034107	2.784	
			32606.7013	0.315741	537.010	0.012291
45°18'	311097.7294	30.870509	7107.9947	0.034097	2.783	
			32625.6457	0.315926	537.638	0.012291
45°19'	312949.9600	30.870600	7110.0405	0.034086	2.782	
			32644.6013	0.316112	538.267	0.012291
45°20'	314802.1960	30.870690	7112.0857	0.034076	2.781	
			32663.5680	0.316297	538.896	0.012291

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0008	-0.0012	-0.0014

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is VIRGINIA NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 37° 40' (latitude of grid origin)
λ_{CM} = 78 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 38 2 (southern standard parallel)
ϕ_n = 39 12 (northern standard parallel)
E_o =3500000.0000 m (easting coordinate of origin)
N_b =2000000.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.624117864648 = \sin(\phi_o)$
K = 12589455.5135 m (mapping radius at the equator)
R_b = 8100315.6826 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	38 37 0.00000 79 0 0.00000	7994867.110 m -0 18 43.41216	-0.0054464289 0.9999851681	3456456.525 m 2105567.151 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	3550000.000m 2110000.000m	50000.000 m 7990315.683 m	7990472.1204 m 0 21 30.70066	38 39 22.5366 77 55 31.9601

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
37° 40'	8100315.683	30.83319	1.00008491
37 41	8098465.691	30.83314	1.00008018
37 42	8096615.703	30.83308	1.00007552
37 43	8094765.718	30.83303	1.00007096
37 44	8092915.736	30.83298	1.00006647
37 45	8091065.757	30.83293	1.00006207
37 46	8089215.781	30.83289	1.00005775
37 47	8087365.808	30.83285	1.00005352
37 48	8085515.837	30.83281	1.00004936
37 49	8083665.869	30.83277	1.00004530
37 50	8081815.903	30.83274	1.00004131
37 51	8079965.939	30.83270	1.00003741
37 52	8078115.976	30.83268	1.00003359
37 53	8076266.016	30.83265	1.00002986
37 54	8074416.057	30.83263	1.00002621
37 55	8072566.099	30.83260	1.00002264
37 56	8070716.143	30.83259	1.00001915
37 57	8068866.188	30.83257	1.00001575
37 58	8067016.234	30.83256	1.00001243
37 59	8065166.280	30.83255	1.00000920
38 0	8063316.327	30.83254	1.00000605
38 1	8061466.375	30.83253	1.00000298
38 2	8059616.423	30.83253	1.00000000
38 3	8057766.472	30.83253	0.99999710
38 4	8055916.520	30.83253	0.99999428
38 5	8054066.568	30.83254	0.99999155
38 6	8052216.616	30.83254	0.99998890
38 7	8050366.663	30.83255	0.99998634
38 8	8048516.710	30.83256	0.99998386
38 9	8046666.756	30.83258	0.99998146
38 10	8044816.802	30.83260	0.99997914
38 11	8042966.846	30.83262	0.99997691
38 12	8041116.889	30.83264	0.99997477
38 13	8039266.930	30.83267	0.99997271
38 14	8037416.970	30.83269	0.99997073
38 15	8035567.009	30.83272	0.99996883
38 16	8033717.045	30.83276	0.99996702
38 17	8031867.080	30.83279	0.99996529
38 18	8030017.112	30.83283	0.99996365
38 19	8028167.142	30.83287	0.99996209

Lambert conformal conic projection tables
VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
38° 20'	8026317.170	30.83292	0.99996061
38 21	8024467.195	30.83296	0.99995922
38 22	8022617.217	30.83301	0.99995791
38 23	8020767.236	30.83306	0.99995669
38 24	8018917.252	30.83312	0.99995555
38 25	8017067.265	30.83317	0.99995450
38 26	8015217.275	30.83323	0.99995352
38 27	8013367.281	30.83330	0.99995264
38 28	8011517.283	30.83336	0.99995183
38 29	8009667.281	30.83343	0.99995111
38 30	8007817.276	30.83350	0.99995048
38 31	8005967.266	30.83357	0.99994993
38 32	8004117.252	30.83364	0.99994946
38 33	8002267.233	30.83372	0.99994908
38 34	8000417.210	30.83380	0.99994878
38 35	7998567.182	30.83388	0.99994856
38 36	7996717.149	30.83397	0.99994843
38 37	7994867.110	30.83406	0.99994839
38 38	7993017.067	30.83415	0.99994842
38 39	7991167.018	30.83424	0.99994855
38 40	7989316.964	30.83434	0.99994875
38 41	7987466.903	30.83444	0.99994904
38 42	7985616.837	30.83454	0.99994942
38 43	7983766.765	30.83464	0.99994988
38 44	7981916.687	30.83475	0.99995042
38 45	7980066.602	30.83486	0.99995105
38 46	7978216.510	30.83497	0.99995176
38 47	7976366.412	30.83508	0.99995256
38 48	7974516.308	30.83520	0.99995344
38 49	7972666.196	30.83532	0.99995441
38 50	7970816.077	30.83544	0.99995546
38 51	7968965.950	30.83556	0.99995660
38 52	7967115.817	30.83569	0.99995782
38 53	7965265.675	30.83582	0.99995912
38 54	7963415.526	30.83595	0.99996051
38 55	7961565.369	30.83609	0.99996198
38 56	7959715.204	30.83623	0.99996354
38 57	7957865.030	30.83637	0.99996518
38 58	7956014.848	30.83651	0.99996691
38 59	7954164.658	30.83665	0.99996872

Lambert conformal conic projection tables
VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
39° 0'	7952314.458	30.83680	0.99997062
39 1	7950464.250	30.83695	0.99997260
39 2	7948614.033	30.83711	0.99997467
39 3	7946763.807	30.83726	0.99997682
39 4	7944913.571	30.83742	0.99997906
39 5	7943063.326	30.83758	0.99998138
39 6	7941213.071	30.83775	0.99998378
39 7	7939362.806	30.83791	0.99998627
39 8	7937512.531	30.83808	0.99998885
39 9	7935662.246	30.83825	0.99999151
39 10	7933811.951	30.83843	0.99999425
39 11	7931961.645	30.83861	0.99999708
39 12	7930111.329	30.83878	1.00000000
39 13	7928261.002	30.83897	1.00000300
39 14	7926410.664	30.83915	1.00000609
39 15	7924560.315	30.83934	1.00000926
39 16	7922709.954	30.83953	1.00001251
39 17	7920859.583	30.83972	1.00001585
39 18	7919009.199	30.83992	1.00001928
39 19	7917158.804	30.84012	1.00002279
39 20	7915308.397	30.84032	1.00002638
39 21	7913457.978	30.84052	1.00003006
39 22	7911607.547	30.84073	1.00003383
39 23	7909757.103	30.84094	1.00003768
39 24	7907906.647	30.84115	1.00004162
39 25	7906056.178	30.84136	1.00004564
39 26	7904205.697	30.84158	1.00004975
39 27	7902355.202	30.84180	1.00005394
39 28	7900504.694	30.84202	1.00005822
39 29	7898654.173	30.84224	1.00006258
39 30	7896803.639	30.84247	1.00006703
39 31	7894953.090	30.84270	1.00007156
39 32	7893102.529	30.84293	1.00007618
39 33	7891251.953	30.84317	1.00008089
39 34	7889401.363	30.84341	1.00008568
39 35	7887550.758	30.84365	1.00009055
39 36	7885700.139	30.84389	1.00009551
39 37	7883849.506	30.84413	1.00010056
39 38	7881998.858	30.84438	1.00010569
39 39	7880148.195	30.84463	1.00011091

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is VIRGINIA SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 36° 20' (latitude of grid origin)
λ_{CM} = 78 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 36 46 (southern standard parallel)
ϕ_n = 37 58 (northern standard parallel)
E. =3500000.0000 m (easting coordinate of origin)
N_b =1000000.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.606924846589 = sin(ϕ.)
K = 12788171.0476 m (mapping radius at the equator)
R_b = 8476701.8059 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi.)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E.$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	37 22 0.00000 79 0 0.00000	8362027.881 m -0 18 12.46472	-0.0052963937 0.9999859740	3455711.408 m 1114791.211 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	3550000.000m 1120000.000m	50000.000 m 8356701.806 m	8356851.3851 m 0 20 34.11335	37 24 47.9182 77 56 6.6126

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
36° 20'	8476701.806	30.82692	1.00010686
36 21	8474852.191	30.82685	1.00010171
36 22	8473002.580	30.82678	1.00009664
36 23	8471152.973	30.82672	1.00009166
36 24	8469303.370	30.82665	1.00008676
36 25	8467453.771	30.82659	1.00008194
36 26	8465604.175	30.82653	1.00007720
36 27	8463754.583	30.82648	1.00007255
36 28	8461904.995	30.82642	1.00006798
36 29	8460055.409	30.82637	1.00006349
36 30	8458205.827	30.82632	1.00005909
36 31	8456356.247	30.82628	1.00005477
36 32	8454506.671	30.82624	1.00005054
36 33	8452657.097	30.82620	1.00004639
36 34	8450807.525	30.82616	1.00004232
36 35	8448957.955	30.82612	1.00003833
36 36	8447108.388	30.82609	1.00003443
36 37	8445258.823	30.82606	1.00003061
36 38	8443409.259	30.82603	1.00002688
36 39	8441559.697	30.82601	1.00002322
36 40	8439710.136	30.82599	1.00001966
36 41	8437860.577	30.82597	1.00001617
36 42	8436011.019	30.82595	1.00001277
36 43	8434161.462	30.82593	1.00000945
36 44	8432311.906	30.82592	1.00000622
36 45	8430462.351	30.82591	1.00000307
36 46	8428612.796	30.82591	1.00000000
36 47	8426763.242	30.82590	0.99999702
36 48	8424913.688	30.82590	0.99999412
36 49	8423064.134	30.82590	0.99999130
36 50	8421214.579	30.82591	0.99998857
36 51	8419365.025	30.82591	0.99998592
36 52	8417515.470	30.82592	0.99998335
36 53	8415665.915	30.82593	0.99998087
36 54	8413816.359	30.82595	0.99997847
36 55	8411966.802	30.82596	0.99997616
36 56	8410117.245	30.82598	0.99997393
36 57	8408267.686	30.82600	0.99997178
36 58	8406418.125	30.82603	0.99996972
36 59	8404568.564	30.82606	0.99996774

Lambert conformal conic projection tables
VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
37° 0'	8402719.000	30.82609	0.99996585
37 1	8400869.435	30.82612	0.99996404
37 2	8399019.868	30.82615	0.99996231
37 3	8397170.299	30.82619	0.99996067
37 4	8395320.728	30.82623	0.99995911
37 5	8393471.154	30.82627	0.99995763
37 6	8391621.578	30.82632	0.99995624
37 7	8389771.998	30.82637	0.99995493
37 8	8387922.417	30.82642	0.99995371
37 9	8386072.832	30.82647	0.99995257
37 10	8384223.243	30.82652	0.99995151
37 11	8382373.652	30.82658	0.99995054
37 12	8380524.057	30.82664	0.99994965
37 13	8378674.458	30.82671	0.99994885
37 14	8376824.856	30.82677	0.99994813
37 15	8374975.250	30.82684	0.99994749
37 16	8373125.639	30.82691	0.99994694
37 17	8371276.024	30.82699	0.99994647
37 18	8369426.405	30.82706	0.99994609
37 19	8367576.781	30.82714	0.99994579
37 20	8365727.153	30.82722	0.99994558
37 21	8363877.519	30.82731	0.99994545
37 22	8362027.881	30.82740	0.99994540
37 23	8360178.237	30.82749	0.99994544
37 24	8358328.588	30.82758	0.99994556
37 25	8356478.933	30.82767	0.99994577
37 26	8354629.273	30.82777	0.99994606
37 27	8352779.606	30.82787	0.99994643
37 28	8350929.934	30.82797	0.99994689
37 29	8349080.256	30.82808	0.99994744
37 30	8347230.571	30.82819	0.99994807
37 31	8345380.880	30.82830	0.99994878
37 32	8343531.182	30.82841	0.99994958
37 33	8341681.478	30.82853	0.99995046
37 34	8339831.766	30.82864	0.99995142
37 35	8337982.048	30.82876	0.99995247
37 36	8336132.322	30.82889	0.99995361
37 37	8334282.589	30.82901	0.99995483
37 38	8332432.848	30.82914	0.99995613
37 39	8330583.099	30.82927	0.99995752

Lambert conformal conic projection tables
VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
37° 40'	8328733.343	30.82941	0.99995899
37 41	8326883.578	30.82955	0.99996055
37 42	8325033.805	30.82968	0.99996220
37 43	8323184.024	30.82983	0.99996392
37 44	8321334.235	30.82997	0.99996573
37 45	8319484.437	30.83012	0.99996763
37 46	8317634.629	30.83027	0.99996961
37 47	8315784.813	30.83042	0.99997168
37 48	8313934.988	30.83058	0.99997383
37 49	8312085.154	30.83073	0.99997606
37 50	8310235.310	30.83089	0.99997838
37 51	8308385.456	30.83106	0.99998079
37 52	8306535.593	30.83122	0.99998328
37 53	8304685.719	30.83139	0.99998585
37 54	8302835.836	30.83156	0.99998851
37 55	8300985.942	30.83173	0.99999126
37 56	8299136.038	30.83191	0.99999409
37 57	8297286.124	30.83209	0.99999700
37 58	8295436.198	30.83227	1.00000000
37 59	8293586.262	30.83245	1.00000308
38 0	8291736.315	30.83264	1.00000625
38 1	8289886.356	30.83283	1.00000951
38 2	8288036.386	30.83302	1.00001285
38 3	8286186.405	30.83322	1.00001627
38 4	8284336.412	30.83341	1.00001978
38 5	8282486.407	30.83361	1.00002337
38 6	8280636.390	30.83382	1.00002705
38 7	8278786.361	30.83402	1.00003082
38 8	8276936.320	30.83423	1.00003467
38 9	8275086.266	30.83444	1.00003860
38 10	8273236.200	30.83465	1.00004262
38 11	8271386.121	30.83487	1.00004673
38 12	8269536.029	30.83509	1.00005092
38 13	8267685.924	30.83531	1.00005520
38 14	8265835.805	30.83553	1.00005956
38 15	8263985.673	30.83576	1.00006400
38 16	8262135.528	30.83599	1.00006854
38 17	8260285.369	30.83622	1.00007315
38 18	8258435.196	30.83645	1.00007785
38 19	8256585.009	30.83669	1.00008264

Lambert conformal conic projection tables
VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
38° 20'	8254734.807	30.83693	1.00008752
38 21	8252884.592	30.83717	1.00009248
38 22	8251034.361	30.83741	1.00009752
38 23	8249184.116	30.83766	1.00010265
38 24	8247333.857	30.83791	1.00010786
38 25	8245483.582	30.83817	1.00011317
38 26	8243633.292	30.83842	1.00011855
38 27	8241782.987	30.83868	1.00012402
38 28	8239932.666	30.83894	1.00012958
38 29	8238082.330	30.83920	1.00013522
38 30	8236231.978	30.83947	1.00014095

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WASHINGTON NORTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 47° 0' (latitude of grid origin)
λ_{CM} = 120 50 (longitude of origin and Central Meridian, CM)
ϕ_s = 47 30 (southern standard parallel)
ϕ_n = 48 44 (northern standard parallel)
E_o = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.744520326553 = $\sin(\phi_o)$
K = 11670409.5559 m (mapping radius at the equator)
R_b = 5853778.6038 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	48 7 0.00000 121 20 0.00000	5729625.030 m -0 22 20.13659	-0.0064971198 0.9999788935	462773.940 m 124274.506 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	540000.000 m 130000.000 m	40000.000 m 5723778.604 m	5723918.3699 m 0 24 1.43555	48 10 4.7701 120 17 43.9406

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WASHINGTON NORTH

Lat	R (meters)	tab diff.	k
47° 0'	5853778.604	30.88478	1.00013068
47 1	5851925.517	30.88470	1.00012512
47 2	5850072.435	30.88463	1.00011964
47 3	5848219.357	30.88455	1.00011425
47 4	5846366.284	30.88448	1.00010894
47 5	5844513.215	30.88441	1.00010371
47 6	5842660.151	30.88434	1.00009857
47 7	5840807.090	30.88428	1.00009351
47 8	5838954.033	30.88421	1.00008853
47 9	5837100.981	30.88416	1.00008363
47 10	5835247.931	30.88410	1.00007882
47 11	5833394.885	30.88404	1.00007409
47 12	5831541.843	30.88399	1.00006944
47 13	5829688.803	30.88394	1.00006488
47 14	5827835.767	30.88390	1.00006040
47 15	5825982.733	30.88385	1.00005600
47 16	5824129.702	30.88381	1.00005169
47 17	5822276.673	30.88377	1.00004745
47 18	5820423.647	30.88373	1.00004330
47 19	5818570.623	30.88370	1.00003924
47 20	5816717.601	30.88367	1.00003525
47 21	5814864.581	30.88364	1.00003135
47 22	5813011.563	30.88361	1.00002754
47 23	5811158.546	30.88359	1.00002380
47 24	5809305.531	30.88357	1.00002015
47 25	5807452.516	30.88355	1.00001659
47 26	5805599.504	30.88353	1.00001310
47 27	5803746.492	30.88352	1.00000970
47 28	5801893.480	30.88351	1.00000638
47 29	5800040.470	30.88350	1.00000315
47 30	5798187.460	30.88349	1.00000000
47 31	5796334.450	30.88349	0.99999693
47 32	5794481.441	30.88349	0.99999395
47 33	5792628.431	30.88349	0.99999105
47 34	5790775.422	30.88350	0.99998823
47 35	5788922.412	30.88350	0.99998550
47 36	5787069.402	30.88351	0.99998285
47 37	5785216.391	30.88353	0.99998028
47 38	5783363.379	30.88354	0.99997780
47 39	5781510.367	30.88356	0.99997540

Lambert conformal conic projection tables
WASHINGTON NORTH

Lat	R (meters)	tab diff.	k
47° 40'	5779657.353	30.88358	0.99997308
47 41	5777804.339	30.88360	0.99997085
47 42	5775951.323	30.88363	0.99996870
47 43	5774098.305	30.88365	0.99996664
47 44	5772245.286	30.88368	0.99996466
47 45	5770392.265	30.88372	0.99996276
47 46	5768539.242	30.88375	0.99996094
47 47	5766686.217	30.88379	0.99995921
47 48	5764833.190	30.88383	0.99995757
47 49	5762980.160	30.88387	0.99995601
47 50	5761127.128	30.88392	0.99995453
47 51	5759274.092	30.88397	0.99995313
47 52	5757421.054	30.88402	0.99995182
47 53	5755568.013	30.88407	0.99995060
47 54	5753714.969	30.88413	0.99994945
47 55	5751861.921	30.88419	0.99994840
47 56	5750008.870	30.88425	0.99994742
47 57	5748155.815	30.88431	0.99994653
47 58	5746302.757	30.88438	0.99994572
47 59	5744449.694	30.88445	0.99994500
48 0	5742596.627	30.88452	0.99994436
48 1	5740743.556	30.88459	0.99994381
48 2	5738890.480	30.88467	0.99994334
48 3	5737037.400	30.88475	0.99994295
48 4	5735184.315	30.88483	0.99994265
48 5	5733331.225	30.88492	0.99994244
48 6	5731478.131	30.88500	0.99994230
48 7	5729625.030	30.88509	0.99994225
48 8	5727771.925	30.88519	0.99994229
48 9	5725918.814	30.88528	0.99994241
48 10	5724065.697	30.88538	0.99994261
48 11	5722212.574	30.88548	0.99994290
48 12	5720359.446	30.88558	0.99994328
48 13	5718506.311	30.88569	0.99994374
48 14	5716653.169	30.88579	0.99994428
48 15	5714800.022	30.88590	0.99994490
48 16	5712946.868	30.88602	0.99994562
48 17	5711093.706	30.88613	0.99994641
48 18	5709240.538	30.88625	0.99994729
48 19	5707387.363	30.88637	0.99994826

Lambert conformal conic projection tables
WASHINGTON NORTH

Lat	R (meters)	tab diff.	k
48° 20'	5705534.181	30.88650	0.99994931
48 21	5703680.991	30.88662	0.99995044
48 22	5701827.794	30.88675	0.99995166
48 23	5699974.588	30.88688	0.99995297
48 24	5698121.375	30.88702	0.99995436
48 25	5696268.154	30.88716	0.99995583
48 26	5694414.925	30.88729	0.99995739
48 27	5692561.687	30.88744	0.99995904
48 28	5690708.441	30.88758	0.99996076
48 29	5688855.186	30.88773	0.99996258
48 30	5687001.923	30.88788	0.99996448
48 31	5685148.650	30.88803	0.99996646
48 32	5683295.368	30.88819	0.99996853
48 33	5681442.077	30.88834	0.99997068
48 34	5679588.776	30.88850	0.99997292
48 35	5677735.466	30.88867	0.99997525
48 36	5675882.146	30.88883	0.99997766
48 37	5674028.816	30.88900	0.99998015
48 38	5672175.476	30.88917	0.99998273
48 39	5670322.126	30.88934	0.99998540
48 40	5668468.765	30.88952	0.99998815
48 41	5666615.394	30.88970	0.99999098
48 42	5664762.012	30.88988	0.99999390
48 43	5662908.619	30.89006	0.99999691
48 44	5661055.215	30.89025	1.00000000
48 45	5659201.800	30.89044	1.00000318
48 46	5657348.374	30.89063	1.00000644
48 47	5655494.936	30.89083	1.00000979
48 48	5653641.486	30.89102	1.00001322
48 49	5651788.025	30.89122	1.00001674
48 50	5649934.551	30.89143	1.00002034
48 51	5648081.065	30.89163	1.00002403
48 52	5646227.568	30.89184	1.00002781
48 53	5644374.057	30.89205	1.00003167
48 54	5642520.534	30.89226	1.00003562
48 55	5640666.998	30.89248	1.00003965
48 56	5638813.450	30.89270	1.00004377
48 57	5636959.888	30.89292	1.00004798
48 58	5635106.313	30.89314	1.00005227
48 59	5633252.724	30.89337	1.00005664

Lambert conformal conic projection tables
WASHINGTON NORTH

Lat	R (meters)	tab diff.	k
49° 0'	5631399.122	30.89360	1.00006110
49 1	5629545.507	30.89383	1.00006565
49 2	5627691.877	30.89406	1.00007029
49 3	5625838.233	30.89430	1.00007501
49 4	5623984.575	30.89454	1.00007981
49 5	5622130.903	30.89478	1.00008470
49 6	5620277.216	30.89503	1.00008968
49 7	5618423.515	30.89527	1.00009475
49 8	5616569.798	30.89552	1.00009990
49 9	5614716.067	30.89578	1.00010513
49 10	5612862.320	30.89603	1.00011045
49 11	5611008.558	30.89629	1.00011586
49 12	5609154.781	30.89655	1.00012136
49 13	5607300.988	30.89681	1.00012694
49 14	5605447.179	30.89708	1.00013261
49 15	5603593.355	30.89735	1.00013836
49 16	5601739.514	30.89762	1.00014420
49 17	5599885.657	30.89789	1.00015013
49 18	5598031.783	30.89817	1.00015614
49 19	5596177.893	30.89845	1.00016224
49 20	5594323.986	30.89873	1.00016843

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WASHINGTON SOUTH

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 45° 20' (latitude of grid origin)
λ_{CM} = 120 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 45 50 (southern standard parallel)
ϕ_n = 47 20 (northern standard parallel)
E_o = 500000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.726395784020 = $\sin(\phi_o)$
K = 11760132.9643 m (mapping radius at the equator)
R_b = 6183952.2755 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	46 35 0.00000 121 0 0.00000	6045015.043 m -0 21 47.51241	-0.0063389566 0.9999799086	461680.912 m 139058.685 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	540000.000 m 140000.000 m	40000.000 m 6043952.275 m	6044084.6377 m 0 22 45.07891	46 35 30.1337 119 58 40.7505

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WASHINGTON SOUTH

Lat	R (meters)	tab diff.	k
45° 20'	6183952.275	30.87635	1.00015069
45 21	6182099.695	30.87625	1.00014447
45 22	6180247.120	30.87615	1.00013833
45 23	6178394.551	30.87606	1.00013227
45 24	6176541.987	30.87596	1.00012630
45 25	6174689.430	30.87587	1.00012040
45 26	6172836.877	30.87578	1.00011459
45 27	6170984.330	30.87570	1.00010887
45 28	6169131.788	30.87562	1.00010322
45 29	6167279.251	30.87554	1.00009766
45 30	6165426.719	30.87546	1.00009218
45 31	6163574.191	30.87539	1.00008678
45 32	6161721.668	30.87531	1.00008147
45 33	6159869.149	30.87524	1.00007624
45 34	6158016.635	30.87518	1.00007109
45 35	6156164.124	30.87511	1.00006602
45 36	6154311.618	30.87505	1.00006104
45 37	6152459.115	30.87499	1.00005614
45 38	6150606.615	30.87493	1.00005133
45 39	6148754.119	30.87488	1.00004659
45 40	6146901.627	30.87483	1.00004194
45 41	6145049.137	30.87478	1.00003737
45 42	6143196.650	30.87473	1.00003289
45 43	6141344.166	30.87469	1.00002849
45 44	6139491.685	30.87464	1.00002417
45 45	6137639.207	30.87461	1.00001993
45 46	6135786.730	30.87457	1.00001578
45 47	6133934.256	30.87454	1.00001171
45 48	6132081.784	30.87450	1.00000772
45 49	6130229.314	30.87448	1.00000382
45 50	6128376.845	30.87445	1.00000000
45 51	6126524.378	30.87443	0.99999626
45 52	6124671.913	30.87440	0.99999261
45 53	6122819.448	30.87439	0.99998904
45 54	6120966.985	30.87437	0.99998555
45 55	6119114.523	30.87436	0.99998215
45 56	6117262.062	30.87435	0.99997883
45 57	6115409.601	30.87434	0.99997559
45 58	6113557.141	30.87433	0.99997244
45 59	6111704.681	30.87433	0.99996937

Lambert conformal conic projection tables
WASHINGTON SOUTH

Lat	R (meters)	tab diff.	k
46° 0'	6109852.221	30.87433	0.99996638
46 1	6107999.761	30.87433	0.99996348
46 2	6106147.302	30.87434	0.99996066
46 3	6104294.841	30.87434	0.99995792
46 4	6102442.381	30.87435	0.99995527
46 5	6100589.920	30.87436	0.99995270
46 6	6098737.458	30.87438	0.99995021
46 7	6096884.995	30.87440	0.99994781
46 8	6095032.531	30.87442	0.99994549
46 9	6093180.066	30.87444	0.99994326
46 10	6091327.600	30.87447	0.99994111
46 11	6089475.132	30.87449	0.99993904
46 12	6087622.662	30.87452	0.99993706
46 13	6085770.191	30.87456	0.99993516
46 14	6083917.717	30.87459	0.99993334
46 15	6082065.242	30.87463	0.99993161
46 16	6080212.764	30.87467	0.99992996
46 17	6078360.284	30.87471	0.99992840
46 18	6076507.801	30.87476	0.99992691
46 19	6074655.315	30.87481	0.99992552
46 20	6072802.827	30.87486	0.99992420
46 21	6070950.335	30.87491	0.99992298
46 22	6069097.840	30.87497	0.99992183
46 23	6067245.342	30.87503	0.99992077
46 24	6065392.840	30.87509	0.99991979
46 25	6063540.335	30.87516	0.99991890
46 26	6061687.825	30.87522	0.99991809
46 27	6059835.312	30.87529	0.99991737
46 28	6057982.795	30.87536	0.99991672
46 29	6056130.273	30.87544	0.99991617
46 30	6054277.747	30.87551	0.99991570
46 31	6052425.216	30.87559	0.99991531
46 32	6050572.680	30.87568	0.99991500
46 33	6048720.140	30.87576	0.99991478
46 34	6046867.594	30.87585	0.99991465
46 35	6045015.043	30.87594	0.99991460
46 36	6043162.487	30.87603	0.99991463
46 37	6041309.925	30.87613	0.99991475
46 38	6039457.357	30.87623	0.99991495
46 39	6037604.783	30.87633	0.99991524

Lambert conformal conic projection tables
WASHINGTON SOUTH

Lat	R (meters)	tab diff.	k
46° 40'	6035752.204	30.87643	0.99991561
46 41	6033899.618	30.87653	0.99991606
46 42	6032047.026	30.87664	0.99991660
46 43	6030194.428	30.87675	0.99991723
46 44	6028341.822	30.87687	0.99991794
46 45	6026489.210	30.87698	0.99991873
46 46	6024636.591	30.87710	0.99991961
46 47	6022783.965	30.87722	0.99992057
46 48	6020931.332	30.87735	0.99992162
46 49	6019078.691	30.87747	0.99992275
46 50	6017226.043	30.87760	0.99992397
46 51	6015373.386	30.87774	0.99992527
46 52	6013520.722	30.87787	0.99992666
46 53	6011668.050	30.87801	0.99992813
46 54	6009815.370	30.87815	0.99992968
46 55	6007962.681	30.87829	0.99993132
46 56	6006109.984	30.87843	0.99993305
46 57	6004257.278	30.87858	0.99993486
46 58	6002404.563	30.87873	0.99993676
46 59	6000551.839	30.87888	0.99993874
47 0	5998699.106	30.87904	0.99994080
47 1	5996846.363	30.87920	0.99994295
47 2	5994993.612	30.87936	0.99994519
47 3	5993140.850	30.87952	0.99994751
47 4	5991288.079	30.87969	0.99994991
47 5	5989435.298	30.87986	0.99995240
47 6	5987582.506	30.88003	0.99995498
47 7	5985729.705	30.88020	0.99995764
47 8	5983876.893	30.88038	0.99996039
47 9	5982024.070	30.88056	0.99996322
47 10	5980171.237	30.88074	0.99996614
47 11	5978318.392	30.88092	0.99996914
47 12	5976465.537	30.88111	0.99997223
47 13	5974612.671	30.88130	0.99997540
47 14	5972759.793	30.88149	0.99997866
47 15	5970906.903	30.88169	0.99998200
47 16	5969054.002	30.88188	0.99998543
47 17	5967201.089	30.88208	0.99998894
47 18	5965348.164	30.88229	0.99999254
47 19	5963495.227	30.88249	0.99999623

Lambert conformal conic projection tables
WASHINGTON SOUTH

Lat	R (meters)	tab diff.	k
47° 20'	5961642.277	30.88270	1.00000000
47 21	5959789.316	30.88291	1.00000386
47 22	5957936.341	30.88312	1.00000780
47 23	5956083.354	30.88334	1.00001183
47 24	5954230.353	30.88356	1.00001594
47 25	5952377.340	30.88378	1.00002014
47 26	5950524.313	30.88400	1.00002442
47 27	5948671.273	30.88423	1.00002880
47 28	5946818.219	30.88446	1.00003325
47 29	5944965.152	30.88469	1.00003779
47 30	5943112.070	30.88492	1.00004242
47 31	5941258.975	30.88516	1.00004714
47 32	5939405.865	30.88540	1.00005194
47 33	5937552.741	30.88564	1.00005682
47 34	5935699.602	30.88589	1.00006179
47 35	5933846.449	30.88614	1.00006685
47 36	5931993.281	30.88639	1.00007200
47 37	5930140.097	30.88664	1.00007723
47 38	5928286.899	30.88690	1.00008254
47 39	5926433.685	30.88715	1.00008794
47 40	5924580.456	30.88742	1.00009343
47 41	5922727.211	30.88768	1.00009901
47 42	5920873.950	30.88795	1.00010467
47 43	5919020.674	30.88821	1.00011041
47 44	5917167.381	30.88849	1.00011625
47 45	5915314.072	30.88876	1.00012217
47 46	5913460.746	30.88904	1.00012817
47 47	5911607.404	30.88932	1.00013426
47 48	5909754.045	30.88960	1.00014044
47 49	5907900.669	30.88988	1.00014671
47 50	5906047.276	30.89017	1.00015306
47 51	5904193.866	30.89046	1.00015950
47 52	5902340.438	30.89075	1.00016602
47 53	5900486.993	30.89105	1.00017263
47 54	5898633.530	30.89135	1.00017933
47 55	5896780.049	30.89165	1.00018611
47 56	5894926.550	30.89195	1.00019298
47 57	5893073.033	30.89226	1.00019994
47 58	5891219.497	30.89257	1.00020699
47 59	5889365.943	30.89288	1.00021412

Lambert conformal conic projection tables
WASHINGTON SOUTH

Lat	R (meters)	tab diff.	k
48° 0'	5887512.370	30.89319	1.00022133
48 1	5885658.778	30.89351	1.00022864
48 2	5883805.168	30.89383	1.00023603
48 3	5881951.538	30.89415	1.00024351
48 4	5880097.889	30.89448	1.00025107
48 5	5878244.220	30.89481	1.00025872
48 6	5876390.532	30.89514	1.00026646
48 7	5874536.823	30.89547	1.00027429
48 8	5872683.095	30.89581	1.00028220
48 9	5870829.347	30.89614	1.00029020
48 10	5868975.578	30.89649	1.00029829

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WEST VIRGINIA NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 38° 30' (latitude of grid origin)
λ_{CM} = 79 30 (longitude of origin and Central Meridian, CM)
ϕ_s = 39 0 (southern standard parallel)
ϕ_n = 40 15 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.637772979173 = \sin(\phi_o)$
K = 12444726.9475 m (mapping radius at the equator)
R_b = 7837787.7954 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	39 37 30.00000 80 0 0.00000	7712893.449 m -0 19 7.99136	-0.0055655904 0.9999845120	557073.194 m 125013.804 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 130000.000 m	50000.000 m 7707787.795 m	7707949.9674 m 0 22 18.00981	39 40 10.2984 78 55 2.0594

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WEST VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
38° 30'	7837787.795	30.83902	1.00013204
38 31	7835937.454	30.83893	1.00012643
38 32	7834087.118	30.83885	1.00012091
38 33	7832236.787	30.83877	1.00011547
38 34	7830386.461	30.83870	1.00011011
38 35	7828536.139	30.83863	1.00010483
38 36	7826685.821	30.83855	1.00009964
38 37	7824835.508	30.83849	1.00009453
38 38	7822985.199	30.83842	1.00008950
38 39	7821134.894	30.83836	1.00008456
38 40	7819284.592	30.83830	1.00007970
38 41	7817434.294	30.83824	1.00007493
38 42	7815584.000	30.83818	1.00007023
38 43	7813733.709	30.83813	1.00006562
38 44	7811883.421	30.83808	1.00006110
38 45	7810033.136	30.83803	1.00005665
38 46	7808182.854	30.83799	1.00005229
38 47	7806332.575	30.83795	1.00004801
38 48	7804482.298	30.83791	1.00004382
38 49	7802632.024	30.83787	1.00003971
38 50	7800781.752	30.83783	1.00003568
38 51	7798931.482	30.83780	1.00003174
38 52	7797081.214	30.83777	1.00002788
38 53	7795230.947	30.83775	1.00002410
38 54	7793380.682	30.83772	1.00002041
38 55	7791530.419	30.83770	1.00001680
38 56	7789680.157	30.83768	1.00001327
38 57	7787829.896	30.83766	1.00000983
38 58	7785979.637	30.83765	1.00000647
38 59	7784129.378	30.83764	1.00000319
39 0	7782279.119	30.83763	1.00000000
39 1	7780428.861	30.83762	0.99999689
39 2	7778578.604	30.83762	0.99999387
39 3	7776728.347	30.83762	0.99999092
39 4	7774878.090	30.83762	0.99998806
39 5	7773027.833	30.83762	0.99998529
39 6	7771177.575	30.83763	0.99998260
39 7	7769327.317	30.83764	0.99997999
39 8	7767477.059	30.83765	0.99997747
39 9	7765626.800	30.83767	0.99997503

Lambert conformal conic projection tables
WEST VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
39° 10'	7763776.540	30.83768	0.99997267
39 11	7761926.279	30.83770	0.99997040
39 12	7760076.016	30.83773	0.99996821
39 13	7758225.753	30.83775	0.99996610
39 14	7756375.488	30.83778	0.99996408
39 15	7754525.221	30.83781	0.99996214
39 16	7752674.953	30.83784	0.99996029
39 17	7750824.682	30.83788	0.99995852
39 18	7748974.410	30.83791	0.99995683
39 19	7747124.135	30.83795	0.99995523
39 20	7745273.858	30.83800	0.99995371
39 21	7743423.578	30.83804	0.99995228
39 22	7741573.295	30.83809	0.99995093
39 23	7739723.010	30.83814	0.99994966
39 24	7737872.721	30.83820	0.99994848
39 25	7736022.430	30.83825	0.99994738
39 26	7734172.134	30.83831	0.99994636
39 27	7732321.836	30.83837	0.99994543
39 28	7730471.534	30.83843	0.99994459
39 29	7728621.228	30.83850	0.99994382
39 30	7726770.917	30.83857	0.99994315
39 31	7724920.603	30.83864	0.99994255
39 32	7723070.285	30.83872	0.99994204
39 33	7721219.962	30.83879	0.99994162
39 34	7719369.634	30.83887	0.99994127
39 35	7717519.302	30.83895	0.99994102
39 36	7715668.964	30.83904	0.99994084
39 37	7713818.622	30.83913	0.99994075
39 38	7711968.275	30.83922	0.99994075
39 39	7710117.922	30.83931	0.99994083
39 40	7708267.563	30.83940	0.99994099
39 41	7706417.199	30.83950	0.99994124
39 42	7704566.829	30.83960	0.99994157
39 43	7702716.452	30.83971	0.99994199
39 44	7700866.070	30.83981	0.99994249
39 45	7699015.682	30.83992	0.99994308
39 46	7697165.286	30.84003	0.99994375
39 47	7695314.885	30.84014	0.99994450
39 48	7693464.476	30.84026	0.99994534
39 49	7691614.060	30.84038	0.99994626

Lambert conformal conic projection tables
WEST VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
39° 50'	7689763.638	30.84050	0.99994727
39 51	7687913.208	30.84062	0.99994836
39 52	7686062.770	30.84075	0.99994954
39 53	7684212.325	30.84088	0.99995080
39 54	7682361.873	30.84101	0.99995215
39 55	7680511.412	30.84114	0.99995358
39 56	7678660.943	30.84128	0.99995510
39 57	7676810.467	30.84142	0.99995670
39 58	7674959.981	30.84156	0.99995838
39 59	7673109.487	30.84171	0.99996015
40 0	7671258.985	30.84186	0.99996200
40 1	7669408.474	30.84201	0.99996394
40 2	7667557.953	30.84216	0.99996597
40 3	7665707.424	30.84231	0.99996808
40 4	7663856.885	30.84247	0.99997027
40 5	7662006.337	30.84263	0.99997255
40 6	7660155.779	30.84280	0.99997491
40 7	7658305.211	30.84296	0.99997736
40 8	7656454.633	30.84313	0.99997989
40 9	7654604.045	30.84330	0.99998251
40 10	7652753.447	30.84347	0.99998521
40 11	7650902.839	30.84365	0.99998800
40 12	7649052.220	30.84383	0.99999087
40 13	7647201.590	30.84401	0.99999383
40 14	7645350.949	30.84420	0.99999687
40 15	7643500.298	30.84438	1.00000000
40 16	7641649.635	30.84457	1.00000321
40 17	7639798.960	30.84476	1.00000651
40 18	7637948.274	30.84496	1.00000989
40 19	7636097.577	30.84516	1.00001336
40 20	7634246.867	30.84536	1.00001692
40 21	7632396.146	30.84556	1.00002055
40 22	7630545.412	30.84577	1.00002428
40 23	7628694.666	30.84597	1.00002809
40 24	7626843.908	30.84618	1.00003198
40 25	7624993.137	30.84640	1.00003596
40 26	7623142.353	30.84661	1.00004003
40 27	7621291.556	30.84683	1.00004418
40 28	7619440.747	30.84705	1.00004841
40 29	7617589.923	30.84728	1.00005273

Lambert conformal conic projection tables
WEST VIRGINIA NORTH

Lat	R (meters)	tab diff.	k
40° 30'	7615739.087	30.84750	1.00005714
40 31	7613888.237	30.84773	1.00006163
40 32	7612037.373	30.84796	1.00006621
40 33	7610186.495	30.84820	1.00007087
40 34	7608335.603	30.84844	1.00007562
40 35	7606484.697	30.84868	1.00008045
40 36	7604633.776	30.84892	1.00008537
40 37	7602782.841	30.84916	1.00009038
40 38	7600931.892	30.84941	1.00009547
40 39	7599080.927	30.84966	1.00010064
40 40	7597229.947	30.84991	1.00010591

Lambert conformal conic projection with two standard parallels

Plane coordinate projection tables

DATUM: NAD 83

The projection is WEST VIRGINIA SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

φ_b = 37° 0' (latitude of grid origin)
λ_{CM} = 81 0 (longitude of origin and Central Meridian, CM)
φ_s = 37 29 (southern standard parallel)
φ_n = 38 53 (northern standard parallel)
$E_\circ$ = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$l = 0.618195407531 = \sin(\varphi_\circ)$
K = 12655491.0285 m (mapping radius at the equator)
R_b = 8250940.5496 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (φ, λ)

$\gamma = (\lambda_{CM} - \lambda) \sin(\varphi_\circ)$ (γ is the meridional convergence)
$E = R \sin(\gamma) + E_\circ$ (R from table)
$N = R_b - R \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	38 11 0.00000 81 30 0.00000	8119604.307 m -0 18 32.75173	-0.0053947465 0.9999854482	556196.793 m 131454.397 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_\circ)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/l$
φ from table using R

Station	E N	$E - E_\circ$ R_b-(N - N_b)	R γ	Latitude Longitude

sample 2	650000.000 m 50000.000 m 8111094.6610 m 38 15 36.0073 140000.000 m 8110940.550 m 0 21 11.50601 80 25 43.1972

WARNING: Use sufficient significant digits for trig.functions
Lambert conformal conic projection tables
WEST VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
37° 0'	8250940.550	30.83131	1.00013734
37 1	8249090.671	30.83122	1.00013144
37 2	8247240.798	30.83112	1.00012562
37 3	8245390.931	30.83104	1.00011989
37 4	8243541.069	30.83095	1.00011424
37 5	8241691.212	30.83087	1.00010867
37 6	8239841.360	30.83078	1.00010319
37 7	8237991.513	30.83071	1.00009778
37 8	8236141.670	30.83063	1.00009247
37 9	8234291.832	30.83056	1.00008723
37 10	8232441.999	30.83049	1.00008208
37 11	8230592.170	30.83042	1.00007701
37 12	8228742.345	30.83035	1.00007202
37 13	8226892.524	30.83029	1.00006712
37 14	8225042.706	30.83023	1.00006230
37 15	8223192.892	30.83017	1.00005756
37 16	8221343.082	30.83012	1.00005291
37 17	8219493.275	30.83006	1.00004834
37 18	8217643.471	30.83001	1.00004385
37 19	8215793.670	30.82997	1.00003945
37 20	8213943.872	30.82992	1.00003513
37 21	8212094.077	30.82988	1.00003089
37 22	8210244.284	30.82984	1.00002674
37 23	8208394.494	30.82980	1.00002267
37 24	8206544.705	30.82977	1.00001868
37 25	8204694.919	30.82974	1.00001478
37 26	8202845.135	30.82971	1.00001096
37 27	8200995.353	30.82968	1.00000722
37 28	8199145.572	30.82966	1.00000357
37 29	8197295.793	30.82963	1.00000000
37 30	8195446.014	30.82962	0.99999651
37 31	8193596.237	30.82960	0.99999311
37 32	8191746.461	30.82959	0.99998979
37 33	8189896.686	30.82957	0.99998656
37 34	8188046.912	30.82957	0.99998340

37 35	8186197.138	30.82956	0.99998034
37 36	8184347.364	30.82956	0.99997735
37 37	8182497.591	30.82956	0.99997445
37 38	8180647.818	30.82956	0.99997163
37 39	8178798.044	30.82956	0.99996890

Lambert conformal conic projection tables
WEST VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
37° 40'	8176948.271	30.82957	0.99996625
37 41	8175098.496	30.82958	0.99996368
37 42	8173248.722	30.82959	0.99996120
37 43	8171398.946	30.82960	0.99995880
37 44	8169549.170	30.82962	0.99995648
37 45	8167699.393	30.82964	0.99995425
37 46	8165849.614	30.82966	0.99995210
37 47	8163999.834	30.82969	0.99995004
37 48	8162150.053	30.82972	0.99994806
37 49	8160300.270	30.82975	0.99994616
37 50	8158450.485	30.82978	0.99994435
37 51	8156600.698	30.82982	0.99994262
37 52	8154750.909	30.82985	0.99994097
37 53	8152901.118	30.82989	0.99993941
37 54	8151051.324	30.82994	0.99993794
37 55	8149201.528	30.82998	0.99993654
37 56	8147351.729	30.83003	0.99993523
37 57	8145501.927	30.83008	0.99993401
37 58	8143652.122	30.83014	0.99993287
37 59	8141802.314	30.83019	0.99993181
38 0	8139952.502	30.83025	0.99993084
38 1	8138102.687	30.83031	0.99992995
38 2	8136252.869	30.83038	0.99992914
38 3	8134403.046	30.83044	0.99992842
38 4	8132553.219	30.83051	0.99992778
38 5	8130703.388	30.83059	0.99992723
38 6	8128853.553	30.83066	0.99992676
38 7	8127003.714	30.83074	0.99992638
38 8	8125153.869	30.83082	0.99992607
38 9	8123304.020	30.83090	0.99992586
38 10	8121454.167	30.83098	0.99992573
38 11	8119604.307	30.83107	0.99992568
38 12	8117754.443	30.83116	0.99992571
38 13	8115904.573	30.83125	0.99992584
38 14	8114054.698	30.83135	0.99992604

38 15	8112204.817	30.83145	0.99992633
38 16	8110354.930	30.83155	0.99992670
38 17	8108505.037	30.83165	0.99992716
38 18	8106655.138	30.83176	0.99992770
38 19	8104805.233	30.83187	0.99992833

Lambert conformal conic projection tables
WEST VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
38°20'	8102955.321	30.83198	0.99992904
38 21	8101105.402	30.83209	0.99992984
38 22	8099255.477	30.83221	0.99993072
38 23	8097405.544	30.83233	0.99993168
38 24	8095555.605	30.83245	0.99993273
38 25	8093705.658	30.83257	0.99993386
38 26	8091855.703	30.83270	0.99993508
38 27	8090005.742	30.83283	0.99993638
38 28	8088155.772	30.83296	0.99993777
38 29	8086305.794	30.83309	0.99993924
38 30	8084455.808	30.83323	0.99994080
38 31	8082605.815	30.83337	0.99994244
38 32	8080755.812	30.83351	0.99994417
38 33	8078905.801	30.83366	0.99994598
38 34	8077055.782	30.83381	0.99994787
38 35	8075205.753	30.83396	0.99994985
38 36	8073355.716	30.83411	0.99995192
38 37	8071505.669	30.83427	0.99995407
38 38	8069655.613	30.83442	0.99995630
38 39	8067805.548	30.83459	0.99995862
38 40	8065955.472	30.83475	0.99996102
38 41	8064105.388	30.83492	0.99996351
38 42	8062255.293	30.83508	0.99996608
38 43	8060405.188	30.83526	0.99996874
38 44	8058555.072	30.83543	0.99997149
38 45	8056704.946	30.83561	0.99997431
38 46	8054854.810	30.83579	0.99997723
38 47	8053004.663	30.83597	0.99998023
38 48	8051154.505	30.83615	0.99998331
38 49	8049304.336	30.83634	0.99998648
38 50	8047454.155	30.83653	0.99998973
38 51	8045603.963	30.83672	0.99999307
38 52	8043753.760	30.83692	0.99999649
38 53	8041903.545	30.83711	1.00000000

38 54	8040053.318	30.83732	1.00000359
38 55	8038203.079	30.83752	1.00000727
38 56	8036352.828	30.83772	1.00001104
38 57	8034502.565	30.83793	1.00001489
38 58	8032652.289	30.83814	1.00001882
38 59	8030802.000	30.83836	1.00002284

Lambert conformal conic projection tables
WEST VIRGINIA SOUTH

Lat	R (meters)	tab diff.	k
39° 0'	8028951.699	30.83857	1.00002694
39 1	8027101.384	30.83879	1.00003113
39 2	8025251.057	30.83901	1.00003541
39 3	8023400.716	30.83924	1.00003977
39 4	8021550.362	30.83946	1.00004422
39 5	8019699.994	30.83969	1.00004875
39 6	8017849.612	30.83993	1.00005336
39 7	8015999.217	30.84016	1.00005807
39 8	8014148.807	30.84040	1.00006285
39 9	8012298.383	30.84064	1.00006773
39 10	8010447.945	30.84088	1.00007268
39 11	8008597.492	30.84113	1.00007773
39 12	8006747.025	30.84137	1.00008286
39 13	8004896.542	30.84162	1.00008807
39 14	8003046.045	30.84188	1.00009337
39 15	8001195.532	30.84213	1.00009876
39 16	7999345.004	30.84239	1.00010423
39 17	7997494.460	30.84265	1.00010979
39 18	7995643.901	30.84292	1.00011543
39 19	7993793.326	30.84318	1.00012116
39 20	7991942.735	30.84345	1.00012698

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WISCONSIN CENTRAL

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Defining constants

ϕ_b = 43° 50' (latitude of grid origin)
λ_{CM} = 90 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 44 15 (southern standard parallel)
ϕ_n = 45 30 (northern standard parallel)
$E_.$ = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

ℓ = 0.705576614409 = $\sin(\phi_.)$
K = 11884020.9704 m (mapping radius at the equator)
R_b = 6531967.9926 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_.)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_.$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	44 52 30.00000 90 30 0.00000	6416219.385 m -0 21 10.03791	-0.0061572786 0.9999810438	560493.550 m 115870.235 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_.)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E. R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	640000.000 m 120000.000 m	40000.000 m 6411967.993 m	6412092.7581 m 0 21 26.73213	44 54 43.6882 89 29 36.3396

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WISCONSIN CENTRAL

Lat	R (meters)	tab diff.	k
43° 50'	6531967.993	30.86681	1.00010479
43 51	6530115.984	30.86674	1.00009960
43 52	6528263.980	30.86667	1.00009450
43 53	6526411.980	30.86661	1.00008947
43 54	6524559.983	30.86655	1.00008453
43 55	6522707.990	30.86649	1.00007968
43 56	6520856.001	30.86643	1.00007490
43 57	6519004.015	30.86638	1.00007021
43 58	6517152.032	30.86633	1.00006561
43 59	6515300.052	30.86628	1.00006108
44 0	6513448.075	30.86624	1.00005664
44 1	6511596.101	30.86619	1.00005228
44 2	6509744.129	30.86615	1.00004801
44 3	6507892.160	30.86612	1.00004381
44 4	6506040.193	30.86608	1.00003970
44 5	6504188.228	30.86605	1.00003568
44 6	6502336.265	30.86602	1.00003174
44 7	6500484.304	30.86599	1.00002788
44 8	6498632.344	30.86597	1.00002410
44 9	6496780.386	30.86594	1.00002041
44 10	6494928.429	30.86592	1.00001680
44 11	6493076.474	30.86591	1.00001327
44 12	6491224.520	30.86589	1.00000983
44 13	6489372.566	30.86588	1.00000647
44 14	6487520.613	30.86587	1.00000319
44 15	6485668.661	30.86586	1.00000000
44 16	6483816.709	30.86586	0.99999689
44 17	6481964.757	30.86586	0.99999386
44 18	6480112.806	30.86586	0.99999092
44 19	6478260.854	30.86586	0.99998806
44 20	6476408.902	30.86587	0.99998529
44 21	6474556.950	30.86588	0.99998260
44 22	6472704.998	30.86589	0.99997999
44 23	6470853.044	30.86590	0.99997746
44 24	6469001.090	30.86592	0.99997502
44 25	6467149.135	30.86594	0.99997267
44 26	6465297.179	30.86596	0.99997039
44 27	6463445.221	30.86598	0.99996820
44 28	6461593.262	30.86601	0.99996610
44 29	6459741.301	30.86604	0.99996407

Lambert conformal conic projection tables
WISCONSIN CENTRAL

Lat	R (meters)	tab diff.	k
44° 30'	6457889.339	30.86607	0.99996213
44 31	6456037.375	30.86611	0.99996028
44 32	6454185.408	30.86614	0.99995851
44 33	6452333.440	30.86618	0.99995682
44 34	6450481.469	30.86623	0.99995522
44 35	6448629.495	30.86627	0.99995370
44 36	6446777.519	30.86632	0.99995226
44 37	6444925.540	30.86637	0.99995091
44 38	6443073.558	30.86642	0.99994964
44 39	6441221.573	30.86648	0.99994846
44 40	6439369.584	30.86653	0.99994736
44 41	6437517.592	30.86659	0.99994634
44 42	6435665.596	30.86666	0.99994541
44 43	6433813.597	30.86672	0.99994456
44 44	6431961.594	30.86679	0.99994380
44 45	6430109.586	30.86686	0.99994312
44 46	6428257.575	30.86693	0.99994252
44 47	6426405.559	30.86701	0.99994201
44 48	6424553.538	30.86709	0.99994158
44 49	6422701.513	30.86717	0.99994124
44 50	6420849.482	30.86725	0.99994098
44 51	6418997.447	30.86734	0.99994081
44 52	6417145.407	30.86743	0.99994072
44 53	6415293.361	30.86752	0.99994071
44 54	6413441.310	30.86762	0.99994079
44 55	6411589.253	30.86771	0.99994095
44 56	6409737.190	30.86781	0.99994120
44 57	6407885.121	30.86791	0.99994153
44 58	6406033.047	30.86802	0.99994195
44 59	6404180.966	30.86813	0.99994245
45 0	6402328.878	30.86824	0.99994303
45 1	6400476.784	30.86835	0.99994370
45 2	6398624.683	30.86846	0.99994446
45 3	6396772.575	30.86858	0.99994530
45 4	6394920.460	30.86870	0.99994622
45 5	6393068.338	30.86882	0.99994723
45 6	6391216.209	30.86895	0.99994832
45 7	6389364.072	30.86908	0.99994950
45 8	6387511.928	30.86921	0.99995076
45 9	6385659.775	30.86934	0.99995211

Lambert conformal conic projection tables
WISCONSIN CENTRAL

Lat	R (meters)	tab diff.	k
45° 10'	6383807.615	30.86948	0.99995354
45 11	6381955.446	30.86962	0.99995505
45 12	6380103.269	30.86976	0.99995665
45 13	6378251.084	30.86990	0.99995834
45 14	6376398.890	30.87005	0.99996011
45 15	6374546.687	30.87020	0.99996197
45 16	6372694.475	30.87035	0.99996391
45 17	6370842.254	30.87050	0.99996593
45 18	6368990.024	30.87066	0.99996804
45 19	6367137.784	30.87082	0.99997024
45 20	6365285.535	30.87098	0.99997252
45 21	6363433.276	30.87115	0.99997488
45 22	6361581.008	30.87131	0.99997733
45 23	6359728.729	30.87148	0.99997987
45 24	6357876.440	30.87166	0.99998249
45 25	6356024.141	30.87183	0.99998519
45 26	6354171.831	30.87201	0.99998799
45 27	6352319.510	30.87219	0.99999086
45 28	6350467.179	30.87237	0.99999382
45 29	6348614.837	30.87256	0.99999687
45 30	6346762.483	30.87275	1.00000000
45 31	6344910.118	30.87294	1.00000322
45 32	6343057.742	30.87313	1.00000652
45 33	6341205.354	30.87333	1.00000991
45 34	6339352.954	30.87353	1.00001338
45 35	6337500.543	30.87373	1.00001694
45 36	6335648.119	30.87393	1.00002058
45 37	6333795.683	30.87414	1.00002431
45 38	6331943.234	30.87435	1.00002813
45 39	6330090.773	30.87456	1.00003203
45 40	6328238.300	30.87478	1.00003601
45 41	6326385.813	30.87499	1.00004008
45 42	6324533.314	30.87521	1.00004424
45 43	6322680.801	30.87544	1.00004848
45 44	6320828.274	30.37566	1.00005281
45 45	6318975.735	30.87589	1.00005722
45 46	6317123.181	30.87612	1.00006172
45 47	6315270.614	30.87635	1.00006631
45 48	6313418.033	30.87659	1.00007098
45 49	6311565.437	30.87683	1.00007574

Lambert conformal conic projection tables
WISCONSIN CENTRAL

Lat	R (meters)	tab diff.	k
45° 50'	6309712.827	30.87707	1.00008058
45 51	6307860.203	30.87731	1.00008551
45 52	6306007.564	30.87756	1.00009052
45 53	6304154.911	30.87781	1.00009562
45 54	6302302.242	30.87806	1.00010081
45 55	6300449.558	30.87832	1.00010608
45 56	6298596.859	30.87857	1.00011144
45 57	6296744.145	30.87883	1.00011688
45 58	6294891.415	30.87910	1.00012241
45 59	6293038.669	30.87936	1.00012803
46 0	6291185.907	30.87963	1.00013373

Lambert conformal conic projection with two standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WISCONSIN NORTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 45° 10' (latitude of grid origin)
λ_{CM} = 90 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 45 34 (southern standard parallel)
ϕ_n = 46 46 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.721370788571 = \sin(\phi_o)$
K = 11788334.3169 m (mapping radius at the equator)
R_b = 6244929.5105 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\ \sin(\phi_o)$ (γ is the meridional convergence)
$E = R\ \sin(\gamma) + E_o$ (R from table)
$N = R_b - R\ \cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	$\sin(\gamma)$ $\cos(\gamma)$	E N
sample 1	46 10 0.00000 90 30 0.00000	6133785.162 m -0 21 38.46742	-0.0062951061 0.9999801856	561387.172 m 111265.885 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	640000.000 m 120000.000 m	40000.000 m 6124929.510 m	6125060.1229 m 0 22 27.03182	46 14 42.5942 89 28 52.6776

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WISCONSIN NORTH

Lat	R (meters)	tab diff.	k
45° 10'	6244929.510	30.87379	1.00009659
45 11	6243077.083	30.87373	1.00009161
45 12	6241224.659	30.87367	1.00008671
45 13	6239372.239	30.87361	1.00008190
45 14	6237519.822	30.87356	1.00007717
45 15	6235667.408	30.87351	1.00007252
45 16	6233814.998	30.87346	1.00006795
45 17	6231962.590	30.87341	1.00006347
45 18	6230110.185	30.87337	1.00005907
45 19	6228257.783	30.87333	1.00005476
45 20	6226405.384	30.87329	1.00005052
45 21	6224552.986	30.87325	1.00004637
45 22	6222700.591	30.87322	1.00004231
45 23	6220848.198	30.87319	1.00003832
45 24	6218995.807	30.87316	1.00003442
45 25	6217143.417	30.87313	1.00003061
45 26	6215291.030	30.87311	1.00002687
45 27	6213438.643	30.87309	1.00002322
45 28	6211586.258	30.87307	1.00001965
45 29	6209733.874	30.87305	1.00001617
45 30	6207881.490	30.87304	1.00001277
45 31	6206029.108	30.87303	1.00000945
45 32	6204176.726	30.87302	1.00000622
45 33	6202324.345	30.87302	1.00000307
45 34	6200471.964	30.87301	1.0000000
45 35	6198619.583	30.87301	0.99999702
45 36	6196767.202	30.87302	0.99999412
45 37	6194914.821	30.87302	0.99999130
45 38	6193062.440	30.87303	0.99998857
45 39	6191210.059	30.87304	0.99998592
45 40	6189357.676	30.87305	0.99998335
45 41	6187505.293	30.87306	0.99998087
45 42	6185652.909	30.87308	0.99997847
45 43	6183800.524	30.87310	0.99997615
45 44	6181948.138	30.87313	0.99997392
45 45	6180095.751	30.87315	0.99997177
45 46	6178243.362	30.87318	0.99996971
45 47	6176390.971	30.87321	0.99996773
45 48	6174538.578	30.87324	0.99996583
45 49	6172686.184	30.87328	0.99996402

Lambert conformal conic projection tables
WISCONSIN NORTH

Lat	R (meters)	tab diff.	k
45° 50'	6170833.787	30.87332	0.99996229
45 51	6168981.388	30.87336	0.99996065
45 52	6167128.987	30.87340	0.99995908
45 53	6165276.582	30.87345	0.99995761
45 54	6163424.176	30.87350	0.99995621
45 55	6161571.766	30.87355	0.99995490
45 56	6159719.353	30.87360	0.99995368
45 57	6157866.937	30.87366	0.99995254
45 58	6156014.517	30.87372	0.99995148
45 59	6154162.094	30.87378	0.99995050
46 0	6152309.668	30.87384	0.99994961
46 1	6150457.237	30.87391	0.99994881
46 2	6148604.802	30.87398	0.99994809
46 3	6146752.364	30.87405	0.99994745
46 4	6144899.921	30.87413	0.99994690
46 5	6143047.473	30.87420	0.99994643
46 6	6141195.021	30.87428	0.99994604
46 7	6139342.564	30.87437	0.99994574
46 8	6137490.102	30.87445	0.99994553
46 9	6135637.635	30.87454	0.99994539
46 10	6133785.162	30.87463	0.99994535
46 11	6131932.685	30.87472	0.99994538
46 12	6130080.201	30.87482	0.99994550
46 13	6128227.712	30.87492	0.99994571
46 14	6126375.218	30.87502	0.99994600
46 15	6124522.717	30.87512	0.99994637
46 16	6122670.209	30.87522	0.99994683
46 17	6120817.696	30.87533	0.99994737
46 18	6118965.176	30.87544	0.99994800
46 19	6117112.649	30.87556	0.99994871
46 20	6115260.116	30.87567	0.99994951
46 21	6113407.575	30.87579	0.99995039
46 22	6111555.028	30.87591	0.99995136
46 23	6109702.473	30.87604	0.99995241
46 24	6107849.911	30.87617	0.99995354
46 25	6105997.341	30.87630	0.99995476
46 26	6104144.763	30.87643	0.99995607
46 27	6102292.177	30.87656	0.99995746
46 28	6100439.584	30.87670	0.99995893
46 29	6098586.982	30.87684	0.99996049

Lambert conformal conic projection tables
WISCONSIN NORTH

Lat	R (meters)	tab diff.	k
46° 30'	6096734.371	30.87698	0.99996214
46 31	6094881.752	30.87713	0.99996386
46 32	6093029.125	30.87727	0.99996568
46 33	6091176.488	30.87742	0.99996758
46 34	6089323.843	30.87758	0.99996956
46 35	6087471.188	30.87773	0.99997163
46 36	6085618.524	30.87789	0.99997378
46 37	6083765.851	30.87805	0.99997602
46 38	6081913.168	30.87822	0.99997835
46 39	6080060.475	30.87838	0.99998075
46 40	6078207.772	30.87855	0.99998325
46 41	6076355.059	30.87872	0.99998583
46 42	6074502.336	30.87890	0.99998849
46 43	6072649.602	30.87907	0.99999124
46 44	6070796.858	30.87925	0.99999408
46 45	6068944.102	30.87943	0.99999699
46 46	6067091.336	30.87962	1.00000000
46 47	6065238.559	30.87980	1.00000309
46 48	6063385.771	30.87999	1.00000627
46 49	6061532.972	30.88019	1.00000953
46 50	6059680.160	30.88038	1.00001287
46 51	6057827.337	30.88058	1.00001631
46 52	6055974.503	30.88078	1.00001982
46 53	6054121.656	30.88098	1.00002343
46 54	6052268.797	30.88119	1.00002711
46 55	6050415.926	30.88140	1.00003089
46 56	6048563.042	30.88161	1.00003475
46 57	6046710.146	30.88182	1.00003869
46 58	6044857.236	30.88204	1.00004272
46 59	6043004.314	30.88226	1.00004684
47 0	6041151.379	30.88248	1.00005104
47 1	6039298.430	30.88270	1.00005533
47 2	6037445.468	30.88293	1.00005970
47 3	6035592.492	30.88316	1.00006416
47 4	6033739.503	30.88339	1.00006871
47 5	6031886.500	30.88362	1.00007334
47 6	6030033.482	30.88386	1.00007805
47 7	6028180.451	30.88410	1.00008286
47 8	6026327.405	30.88434	1.00008775
47 9	6024474.344	30.88459	1.00009272

Lambert conformal conic projection with standard parallels
Plane coordinate projection tables

DATUM: NAD 83
The projection is WISCONSIN SOUTH

Ellipsoidal constants

$a = 6378137$ m
$f = 1/298.25722210$

Defining constants

ϕ_b = 42° 0' (latitude of grid origin)
λ_{CM} = 90 0 (longitude of origin and Central Meridian, CM)
ϕ_s = 42 44 (southern standard parallel)
ϕ_n = 44 4 (northern standard parallel)
E_o = 600000.0000 m (easting coordinate of origin)
N_b = 0.0000 m (northing coordinate of origin)

Derived constants

$\ell = 0.687103235566 = \sin(\phi_o)$
K = 12012072.0457 m (mapping radius at the equator)
R_b = 6910290.1546 m (mapping radius at grid origin)

Lambert coordinates (N,E) from geodetic positions (ϕ,λ)

$\gamma = (\lambda_{CM} - \lambda)\sin(\phi_o)$ (γ is the meridional convergence)
$E = R\sin(\gamma) + E_o$ (R from table)
$N = R_b - R\cos(\gamma) + N_b$

Station	Latitude Longitude	R γ	sin(γ) cos(γ)	E N
sample 1	43 24 0.00000 90 30 0.00000	6754763.614 m -0 20 36.78582	-0.0059960710 0.9999820234	559497.958 m 155647.968 m

Geodetic positions from Lambert coordinates

$\tan(\gamma) = (E - E_o)/((R_b - (N - N_b))$
$R = (R_b - (N - N_b))/\cos(\gamma)$
$\lambda = \lambda_{CM} - \gamma/\ell$
ϕ from table using R

Station	E N	E - E_o R_b-(N - N_b)	R γ	Latitude Longitude
sample 2	650000.000 m 160000.000 m	50000.000 m 6750290.155 m	6750475.3293 m 0 25 27.79384	43 26 18.9626 89 22 56.4712

WARNING: Use sufficient significant digits for trig.functions

Lambert conformal conic projection tables
WISCONSIN SOUTH

Lat	R (meters)	tab diff.	k
42° 0'	6910290.155	30.86067	1.00022830
42 1	6908438.514	30.86055	1.00022133
42 2	6906586.881	30.86043	1.00021445
42 3	6904735.256	30.86031	1.00020764
42 4	6902883.637	30.86019	1.00020092
42 5	6901032.026	30.86008	1.00019428
42 6	6899180.421	30.85997	1.00018773
42 7	6897328.823	30.85986	1.00018125
42 8	6895477.232	30.85975	1.00017486
42 9	6893625.647	30.85965	1.00016855
42 10	6891774.068	30.85955	1.00016233
42 11	6889922.495	30.85945	1.00015618
42 12	6888070.928	30.85935	1.00015012
42 13	6886219.367	30.85926	1.00014415
42 14	6884367.811	30.85917	1.00013825
42 15	6882516.261	30.85908	1.00013244
42 16	6880664.716	30.85900	1.00012671
42 17	6878813.176	30.85891	1.00012106
42 18	6876961.641	30.85883	1.00011550
42 19	6875110.112	30.85876	1.00011002
42 20	6873258.586	30.85868	1.00010462
42 21	6871407.065	30.85861	1.00009931
42 22	6869555.549	30.85854	1.00009408
42 23	6867704.037	30.85847	1.00008893
42 24	6865852.529	30.85840	1.00008386
42 25	6864001.024	30.85834	1.00007888
42 26	6862149.524	30.85828	1.00007398
42 27	6860298.027	30.85823	1.00006916
42 28	6858446.533	30.85817	1.00006443
42 29	6856595.043	30.85812	1.00005978
42 30	6854743.556	30.85807	1.00005521
42 31	6852892.072	30.85802	1.00005073
42 32	6851040.591	30.85798	1.00004632
42 33	6849189.112	30.85794	1.00004201
42 34	6847337.636	30.85790	1.00003777
42 35	6845486.162	30.85786	1.00003362
42 36	6843634.691	30.85783	1.00002955
42 37	6841783.221	30.85779	1.00002557
42 38	6839931.753	30.85776	1.00002166
42 39	6838080.288	30.85774	1.00001784

Lambert conformal conic projection tables
WISCONSIN SOUTH

Lat	R (meters)	tab diff.	k
42°40'	6836228.823	30.85771	1.00001411
42 41	6834377.360	30.85769	1.00001046
42 42	6832525.899	30.85767	1.00000689
42 43	6830674.438	30.85766	1.00000340
42 44	6828822.979	30.85764	1.0000000
42 45	6826971.520	30.85763	0.99999668
42 46	6825120.062	30.85762	0.99999345
42 47	6823268.605	30.85762	0.99999029
42 48	6821417.148	30.85762	0.99998723
42 49	6819565.691	30.85762	0.99998424
42 50	6817714.234	30.85762	0.99998134
42 51	6815862.777	30.85762	0.99997852
42 52	6814011.319	30.85763	0.99997579
42 53	6812159.862	30.85764	0.99997314
42 54	6810308.403	30.85765	0.99997057
42 55	6808456.944	30.85767	0.99996809
42 56	6806605.484	30.85768	0.99996569
42 57	6804754.023	30.85770	0.99996337
42 58	6802902.561	30.85773	0.99996114
42 59	6801051.098	30.85775	0.99995899
43 0	6799199.633	30.85778	0.99995693
43 1	6797348.166	30.85781	0.99995494
43 2	6795496.697	30.85784	0.99995305
43 3	6793645.227	30.85788	0.99995123
43 4	6791793.754	30.85792	0.99994950
43 5	6789942.279	30.85796	0.99994786
43 6	6788090.802	30.85800	0.99994630
43 7	6786239.322	30.85805	0.99994482
43 8	6784387.839	30.85809	0.99994342
43 9	6782536.354	30.85814	0.99994211
43 10	6780684.865	30.85820	0.99994089
43 11	6778833.373	30.85825	0.99993974
43 12	6776981.878	30.85831	0.99993869
43 13	6775130.379	30.85838	0.99993771
43 14	6773278.876	30.85844	0.99993682
43 15	6771427.370	30.85851	0.99993602
43 16	6769575.860	30.85858	0.99993529
43 17	6767724.345	30.85865	0.99993466
43 18	6765872.826	30.85872	0.99993410
43 19	6764021.303	30.85880	0.99993363

Lambert conformal conic projection tables
WISCONSIN SOUTH

Lat	R (meters)	tab diff.	k
43°20'	6762169.775	30.85888	0.99993325
43 21	6760318.242	30.85896	0.99993295
43 22	6758466.705	30.85905	0.99993273
43 23	6756615.162	30.85913	0.99993260
43 24	6754763.614	30.85922	0.99993255
43 25	6752912.061	30.85932	0.99993258
43 26	6751060.502	30.85941	0.99993270
43 27	6749208.937	30.85951	0.99993291
43 28	6747357.367	30.85961	0.99993320
43 29	6745505.790	30.85971	0.99993357
43 30	6743654.207	30.85982	0.99993403
43 31	6741802.618	30.85993	0.99993457
43 32	6739951.023	30.86004	0.99993520
43 33	6738099.420	30.86015	0.99993591
43 34	6736247.811	30.86027	0.99993670
43 35	6734396.195	30.86039	0.99993758
43 36	6732544.572	30.86051	0.99993855
43 37	6730692.942	30.86063	0.99993960
43 38	6728841.304	30.86076	0.99994073
43 39	6726989.658	30.86089	0.99994195
43 40	6725138.005	30.86102	0.99994325
43 41	6723286.344	30.86115	0.99994464
43 42	6721434.674	30.86129	0.99994612
43 43	6719582.997	30.86143	0.99994767
43 44	6717731.311	30.86157	0.99994932
43 45	6715879.617	30.86172	0.99995104
43 46	6714027.914	30.86187	0.99995285
43 47	6712176.202	30.86202	0.99995475
43 48	6710324.481	30.86217	0.99995673
43 49	6708472.751	30.86232	0.99995880
43 50	6706621.011	30.86248	0.99996095
43 51	6704769.262	30.86264	0.99996319
43 52	6702917.504	30.86281	0.99996551
43 53	6701065.735	30.86297	0.99996791
43 54	6699213.957	30.86314	0.99997041
43 55	6697362.169	30.86331	0.99997298
43 56	6695510.370	30.86349	0.99997564
43 57	6693658.561	30.86366	0.99997839
43 58	6691806.741	30.86384	0.99998122
43 59	6689954.911	30.86402	0.99998414

Lambert conformal conic projection tables
WISCONSIN SOUTH

Lat	R (meters)	tab diff.	k
44° 0'	6688103.069	30.86421	0.99998714
44 1	6686251.217	30.86439	0.99999023
44 2	6684399.353	30.86458	0.99999340
44 3	6682547.478	30.86478	0.99999666
44 4	6680695.591	30.86497	1.0000000
44 5	6678843.693	30.86517	1.00000343
44 6	6676991.783	30.86537	1.00000694
44 7	6675139.861	30.86557	1.00001054
44 8	6673287.927	30.86578	1.00001422
44 9	6671435.980	30.86599	1.00001799
44 10	6669584.021	30.86620	1.00002185
44 11	6667732.049	30.86641	1.00002579
44 12	6665880.065	30.86663	1.00002982
44 13	6664028.067	30.86684	1.00003393
44 14	6662176.056	30.86707	1.00003812
44 15	6660324.033	30.86729	1.00004241
44 16	6658471.995	30.86752	1.00004677
44 17	6656619.944	30.86774	1.00005123
44 18	6654767.880	30.86798	1.00005577
44 19	6652915.801	30.86821	1.00006039
44 20	6651063.708	30.86845	1.00006510
44 21	6649211.601	30.86869	1.00006990
44 22	6647359.480	30.86893	1.00007478
44 23	6645507.344	30.86918	1.00007975
44 24	6643655.194	30.86942	1.00008480
44 25	6641803.028	30.86967	1.00008994
44 26	6639950.848	30.86993	1.00009517
44 27	6638098.652	30.87018	1.00010048
44 28	6636246.441	30.87044	1.00010588
44 29	6634394.215	30.87070	1.00011136
44 30	6632541.973	30.87097	1.00011693
44 31	6630689.715	30.87123	1.00012258
44 32	6628837.441	30.87150	1.00012832
44 33	6626985.151	30.87177	1.00013415
44 34	6625132.844	30.87205	1.00014006
44 35	6623280.521	30.87232	1.00014606
44 36	6621428.182	30.87260	1.00015215
44 37	6619575.826	30.87289	1.00015832
44 38	6617723.453	30.87317	1.00016458
44 39	6615871.062	30.87346	1.00017092

TRANSVERSE MERCATOR PROJECTION

TABLES FOR WYOMING COMPLETE

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: WYOMING EAST
ZONE CODE: 4901

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40°30' (latitude of grid origin)
λ_b = 105°10' (longitude of origin and Central Meridian, CM)
E_0 = 200000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 41°00' to φ_{max} = 45°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 41°15'23".54600
LONGITUDE: 106°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.37637550
TABULAR (I) = 83283.4156
23.54600 sec = 726.3415
SECOND DIFF = -0.0006
(I) = 84009.7565
TABULAR (II) = 3720.9848
23.54600 sec = 0.1130
(II) = 3721.0979
TABULAR (III) = 1.7572
$N = (I) + (II)p^2 + (III)p^4$ = 84536.917 m

TABULAR (IV) = 232809.0005
23.54600 sec = -23.2221
SECOND DIFF = 0.0024
(IV) = 232785.7807
TABULAR (V) = 12.1005
23.54600 sec = -0.0219
(V) = 12.0786
TABULAR (VI) = -0.0287
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -87615.508 m
$E = E_0 + E'$ = 112384.492 m

TABULAR (XII) = 6593.4582
23.54600 sec = 0.8581
(XII) = 6594.3163
TABULAR (XIII) = 2.9535
$C = (XII)p + (XIII)p^3$ = -2482".10

$q = 10^{-6} E'$ = -0.08761551
TABULAR (XVI) = 0.012303
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00003194

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.08761551$

$\varphi' = 41°15'40''.63509$

```
TABULAR  ( VII) =    2225.5392
   40.63509 sec =       0.8788
         ( VII) =    2226.4180
TABULAR  (VIII) =      33.1179
   40.63509 sec =       0.0213
         (VIII) =      33.1393
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 41°15'23''.54600$

```
TABULAR  (  IX) =   42953.6658
   40.63509 sec =       7.3960
   SECOND DIFF  =      -0.0010
         (  IX) =   42961.0608
TABULAR  (   X) =     446.0903
   40.63509 sec =       0.2907
         (   X) =     446.3810
TABULAR  (  XI) =       8.7707
   40.63509 sec =       0.0100
         (  XI) =       8.7807
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 106°12'43''.75491$

```
TABULAR  ( XIV) =   28321.3198
   40.63509 sec =      11.2394
   SECOND DIFF  =      -0.0009
         ( XIV) =   28332.5583
TABULAR  (  XV) =     408.5066
   40.63509 sec =       0.3035
         (  XV) =     408.8101
```

$C = (XIV)q - (XV)q^3 = -2482''.10$

```
TABULAR  ( XVI) =     0.012303
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00003194$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: WYOMING EAST CENTRAL
ZONE CODE: 4902

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40°30' (latitude of grid origin)
λ_b = 107°20' (longitude of origin and Central Meridian, CM)
E_0 = 400000 m (easting coordinate of grid origin)
N_b = 100000 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 41°00' to φ_{max} = 45°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 41°15'23".54600
LONGITUDE: 108°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.31637550
TABULAR (I) = 83283.4156
23.54600 sec = 726.3415
SECOND DIFF = -0.0006
(I) = 84009.7565
TABULAR (II) = 3720.9848
23.54600 sec = 0.1130
(II) = 3721.0979
TABULAR (III) = 1.7572
$N' = (I) + (II)p^2 + (III)p^4$ = 84382.232 m
$N = N_b + N'$ = 100000 + 84382.232 = 184382.232 m

TABULAR (IV) = 232809.0005
23.54600 sec = -23.2221
SECOND DIFF = 0.0024
(IV) = 232785.7807
TABULAR (V) = 12.1005
23.54600 sec = -0.0219
(V) = 12.0786
TABULAR (VI) = -0.0287
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -73648.100 m
$E = E_0 + E'$ = 326351.900 m

TABULAR (XII) = 6593.4582
23.54600 sec = 0.8581
(XII) = 6594.3163
TABULAR (XIII) = 2.9535
$C = (XII)p + (XIII)p^3$ = -2086".37

$q = 10^{-6} E'$ = -0.07364810
TABULAR (XVI) = 0.012303
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 1.00000423

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.07364810$

$\varphi' = 41°15'35''.62062$

```
TABULAR  ( VII) =    2225.5392
   35.62062 sec =       0.7704
         ( VII) =    2226.3096
TABULAR  (VIII) =      33.1179
   35.62062 sec =       0.0187
         (VIII) =      33.1366
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 41°15'23''.54600$

```
TABULAR  (  IX) =   42953.6658
   35.62062 sec =       6.4833
   SECOND DIFF  =      -0.0011
         (  IX) =   42960.1480
TABULAR  (   X) =     446.0903
   35.62062 sec =       0.2548
         (   X) =     446.3452
TABULAR  (  XI) =       8.7707
   35.62062 sec =       0.0088
         (  XI) =       8.7795
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 108°12'43''.75496$

```
TABULAR  ( XIV) =   28321.3198
   35.62062 sec =       9.8525
   SECOND DIFF  =      -0.0010
         ( XIV) =   28331.1712
TABULAR  (  XV) =     408.5066
   35.62062 sec =       0.2661
         (  XV) =     408.7726
```

$C = (XIV)q - (XV)q^3 = -2086''.37$

```
TABULAR  ( XVI) =     0.012303
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00000423$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: WYOMING WEST CENTRAL
ZONE CODE: 4903

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40°30' (latitude of grid origin)
λ_b = 108°45' (longitude of origin and Central Meridian, CM)
E_0 = 600000 m (easting coordinate of grid origin)
N_b = 0 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 41°00' to φ_{max} = 45°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 41°15'23".54600
LONGITUDE: 109°12'43".75500

$p = 10^{-4}\Delta\lambda$ = -0.16637550
TABULAR (I) = 83283.4156
23.54600 sec = 726.3415
SECOND DIFF = -0.0006
(I) = 84009.7565
TABULAR (II) = 3720.9848
23.54600 sec = 0.1130
(II) = 3721.0979
TABULAR (III) = 1.7572
$N = (I) + (II)p^2 + (III)p^4$ = 84112.761 m

TABULAR (IV) = 232809.0005
23.54600 sec = -23.2221
SECOND DIFF = 0.0024
(IV) = 232785.7807
TABULAR (V) = 12.1005
23.54600 sec = -0.0219
(V) = 12.0786
TABULAR (VI) = -0.0287
$E' = (IV)p + (V)p^3 + (VI)p^5$ = -38729.906 m
$E = E_0 + E'$ = 561270.094 m

TABULAR (XII) = 6593.4582
23.54600 sec = 0.8581
(XII) = 6594.3163
TABULAR (XIII) = 2.9535
$C = (XII)p + (XIII)p^3$ = -1097".15

$q = 10^{-6} E'$ = -0.03872991
TABULAR (XVI) = 0.012303
$k = k_0(1 + (XVI)q^2 + 0.00003q^4)$ = 0.99995595

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.03872991$

$\varphi' = 41°15'26''.88512$

```
TABULAR  ( VII) =    2225.5392
   26.88512 sec =       0.5815
         ( VII) =    2226.1207
TABULAR  (VIII) =      33.1179
   26.88512 sec =       0.0141
         (VIII) =      33.1320
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 41°15'23''.54600$

```
TABULAR  (  IX) =   42953.6658
   26.88512 sec =       4.8934
   SECOND DIFF  =      -0.0011
         (  IX) =   42958.5580
TABULAR  (   X) =     446.0903
   26.88512 sec =       0.1923
         (   X) =     446.2827
TABULAR  (  XI) =       8.7707
   26.88512 sec =       0.0066
         (  XI) =       8.7773
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 109°12'43''.75500$

```
TABULAR  ( XIV) =   28321.3198
   26.88512 sec =       7.4363
   SECOND DIFF  =      -0.0010
         ( XIV) =   28328.7550
TABULAR  (  XV) =     408.5066
   26.88512 sec =       0.2008
         (  XV) =     408.7074
```

$C = (XIV)q - (XV)q^3 = -1097''.15$

```
TABULAR  ( XVI) =     0.012303
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 0.99995595$

Transverse Mercator projection

Plane coordinate projection tables

DATUM: NAD 83
ZONE: WYOMING WEST
ZONE CODE: 4904

Ellipsoidal constants

a = 6378137 m
f = 1/298.25722210

Projection defining constants

φ_b = 40°30' (latitude of grid origin)
λ_b = 110° 5' (longitude of origin and Central Meridian, CM)
E_0 = 800000 m (easting coordinate of grid origin)
N_b = 100000 m (northing coordinate of grid origin)
k_0 = 0.999938 (scale along Central Meridian)
latitude range from φ_{min} = 41°00' to φ_{max} = 45°00'

These tables supplement NOAA Manual NOS NGS-5,
State Plane Coordinate System of 1983.
The notation used is defined in that publication.

Transverse Mercator coordinates from geodetic positions

Sample point coordinates:

LATITUDE: 41°15'23".54600
LONGITUDE: 111°12'43".75500

$p = 10^{-4}\Delta\lambda = -0.40637550$
TABULAR (I) = 83283.4156
23.54600 sec = 726.3415
SECOND DIFF = -0.0006
(I) = 84009.7565
TABULAR (II) = 3720.9848
23.54600 sec = 0.1130
(II) = 3721.0979
TABULAR (III) = 1.7572
$N' = (I) + (II)p^2 + (III)p^4 = 84624.310$ m
$N = N_b + N' = 100000 + 84624.310 = 184624.310$ m

TABULAR (IV) = 232809.0005
23.54600 sec = -23.2221
SECOND DIFF = 0.0024
(IV) = 232785.7807
TABULAR (V) = 12.1005
23.54600 sec = -0.0219
(V) = 12.0786
TABULAR (VI) = -0.0287
$E' = (IV)p + (V)p^3 + (VI)p^5 = -94599.248$ m
$E = E_0 + E' = 705400.752$ m

TABULAR (XII) = 6593.4582
23.54600 sec = 0.8581
(XII) = 6594.3163
TABULAR (XIII) = 2.9535
$C = (XII)p + (XIII)p^3 = -2679".97$

$q = 10^{-6} E' = -0.09459925$
TABULAR (XVI) = 0.012303
$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00004760$

Geodetic positions from Transverse Mercator coordinates

$q = 10^{-6} E' = -0.09459925$

$\varphi' = 41°15'43''.46815$

```
TABULAR  ( VII) =    2225.5392
   43.46815 sec =       0.9401
         ( VII) =    2226.4793
TABULAR  (VIII) =      33.1179
   43.46815 sec =       0.0228
         (VIII) =      33.1407
```

$\varphi = \varphi' - (VII)q^2 + (VIII)q^4 = 41°15'23''.54600$

```
TABULAR  (  IX) =   42953.6658
   43.46815 sec =       7.9116
   SECOND DIFF  =      -0.0009
         (  IX) =   42961.5765
TABULAR  (   X) =     446.0903
   43.46815 sec =       0.3110
         (   X) =     446.4013
TABULAR  (  XI) =       8.7707
   43.46815 sec =       0.0107
         (  XI) =       8.7814
```

$\lambda = \lambda_b - (IX)q + (X)q^3 + (XI)q^5 = 111°12'43''.75487$

```
TABULAR  ( XIV) =   28321.3198
   43.46815 sec =      12.0230
   SECOND DIFF  =      -0.0008
         ( XIV) =   28333.3420
TABULAR  (  XV) =     408.5066
   43.46815 sec =       0.3247
         (  XV) =     408.8313
```

$C = (XIV)q - (XV)q^3 = -2679''.97$

```
TABULAR  ( XVI) =     0.012303
```

$k = k_0(1 + (XVI)q^2 + 0.00003q^4) = 1.00004760$

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41° 0'	55521.0696	30.846424	3716.5142	0.005114	1.774
	233694.2407	-0.981285	12.9411	-0.000937	-0.028
41° 1'	57371.8551	30.846514	3716.8210	0.005093	1.773
	233635.3636	-0.981616	12.8849	-0.000936	-0.028
41° 2'	59222.6459	30.846603	3717.1266	0.005072	1.772
	233576.4666	-0.981947	12.8288	-0.000936	-0.028
41° 3'	61073.4421	30.846693	3717.4310	0.005051	1.771
	233517.5498	-0.982278	12.7726	-0.000935	-0.028
41° 4'	62924.2437	30.846782	3717.7340	0.005030	1.770
	233458.6131	-0.982609	12.7165	-0.000935	-0.028
41° 5'	64775.0507	30.846872	3718.0358	0.005009	1.769
	233399.6566	-0.982940	12.6604	-0.000935	-0.029
41° 6'	66625.8630	30.846962	3718.3364	0.004988	1.767
	233340.6802	-0.983270	12.6043	-0.000934	-0.029
41° 7'	68476.6807	30.847051	3718.6357	0.004967	1.766
	233281.6840	-0.983601	12.5482	-0.000934	-0.029
41° 8'	70327.5037	30.847141	3718.9337	0.004946	1.765
	233222.6679	-0.983932	12.4922	-0.000934	-0.029
41° 9'	72178.3322	30.847230	3719.2305	0.004925	1.764
	233163.6320	-0.984262	12.4361	-0.000933	-0.029
41°10'	74029.1660	30.847320	3719.5260	0.004904	1.763
	233104.5763	-0.984592	12.3801	-0.000933	-0.029
41°11'	75880.0052	30.847409	3719.8203	0.004883	1.762
	233045.5007	-0.984923	12.3242	-0.000933	-0.029
41°12'	77730.8497	30.847499	3720.1133	0.004862	1.761
	232986.4054	-0.985253	12.2682	-0.000932	-0.029
41°13'	79581.6997	30.847588	3720.4050	0.004841	1.759
	232927.2902	-0.985583	12.2123	-0.000932	-0.029
41°14'	81432.5550	30.847678	3720.6955	0.004821	1.758
	232868.1552	-0.985913	12.1564	-0.000932	-0.029
41°15'	83283.4156	30.847768	3720.9848	0.004800	1.757
	232809.0005	-0.986243	12.1005	-0.000931	-0.029
41°16'	85134.2817	30.847857	3721.2727	0.004779	1.756
	232749.8259	-0.986573	12.0446	-0.000931	-0.029
41°17'	86985.1531	30.847947	3721.5594	0.004758	1.755
	232690.6315	-0.986903	11.9888	-0.000930	-0.029
41°18'	88836.0299	30.848036	3721.8449	0.004737	1.754
	232631.4174	-0.987232	11.9329	-0.000930	-0.029
41°19'	90686.9121	30.848126	3722.1291	0.004716	1.753
	232572.1834	-0.987562	11.8771	-0.000930	-0.029

41°20'	92537.7997	30.848216	3722.4120	0.004695	1.751
	232512.9297	-0.987891	11.8213	-0.000929	-0.029
41°21'	94388.6926	30.848305	3722.6937	0.004674	1.750
	232453.6562	-0.988221	11.7656	-0.000929	-0.029

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IV)0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°22'	96239.5910	30.848395	3722.9741	0.004653	1.749
	232394.3630	-0.988550	11.7099	-0.000929	-0.029
41°23'	98090.4947	30.848485	3723.2533	0.004632	1.748
	232335.0500	-0.988879	11.6541	-0.000928	-0.029
41°24'	99941.4037	30.848574	3723.5312	0.004611	1.747
	232275.7172	-0.989209	11.5984	-0.000928	-0.029
41°25'	101792.3182	30.848664	3723.8078	0.004590	1.746
	232216.3647	-0.989538	11.5428	-0.000927	-0.029
41°26'	103643.2380	30.848754	3724.0832	0.004569	1.745
	232156.9924	-0.989867	11.4871	-0.000927	-0.029
41°27'	105494.1632	30.848843	3724.3573	0.004548	1.743
	232097.6004	-0.990196	11.4315	-0.000927	-0.029
41°28'	107345.0938	30.848933	3724.6302	0.004527	1.742
	232038.1887	-0.990525	11.3759	-0.000926	-0.029
41°29'	109196.0298	30.849023	3724.9018	0.004506	1.741
	231978.7572	-0.990853	11.3203	-0.000926	-0.029
41°30'	111046.9712	30.849112	3725.1721	0.004485	1.740
	231919.3060	-0.991182	11.2648	-0.000926	-0.029
41°31'	112897.9179	30.849202	3725.4412	0.004464	1.739
	231859.8351	-0.991511	11.2092	-0.000925	-0.029
41°32'	114748.8701	30.849292	3725.7090	0.004443	1.738
	231800.3444	-0.991839	11.1537	-0.000925	-0.029
41°33'	116599.8276	30.849382	3725.9756	0.004422	1.737
	231740.8340	-0.992168	11.0982	-0.000924	-0.029
41°34'	118450.7905	30.849471	3726.2409	0.004401	1.735
	231681.3040	-0.992496	11.0427	-0.000924	-0.029
41°35'	120301.7587	30.849561	3726.5049	0.004380	1.734
	231621.7542	-0.992825	10.9873	-0.000924	-0.029
41°36'	122152.7324	30.849651	3726.7677	0.004359	1.733
	231562.1847	-0.993153	10.9319	-0.000923	-0.029
41°37'	124003.7114	30.849740	3727.0292	0.004338	1.732
	231502.5956	-0.993481	10.8765	-0.000923	-0.029
41°38'	125854.6959	30.849830	3727.2895	0.004317	1.731
	231442.9867	-0.993809	10.8211	-0.000923	-0.029
41°39'	127705.6857	30.849920	3727.5485	0.004296	1.730
	231383.3582	-0.994137	10.7657	-0.000922	-0.029
41°40'	129556.6809	30.850010	3727.8062	0.004275	1.728
	231323.7099	-0.994465	10.7104	-0.000922	-0.029
41°41'	131407.6815	30.850100	3728.0627	0.004254	1.727
	231264.0420	-0.994793	10.6551	-0.000921	-0.029

41°42'	133258.6874	30.850189	3728.3179	0.004233	1.726
	231204.3545	-0.995120	10.5998	-0.000921	-0.029
41°43'	135109.6988	30.850279	3728.5719	0.004212	1.725
	231144.6473	-0.995448	10.5445	-0.000921	-0.029

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0025

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
41°44'	136960.7156	30.850369	3728.8246	0.004191	1.724
	231084.9204	-0.995776	10.4893	-0.000920	-0.029
41°45'	138811.7377	30.850459	3729.0760	0.004169	1.723
	231025.1738	-0.996103	10.4341	-0.000920	-0.029
41°46'	140662.7652	30.850549	3729.3262	0.004148	1.721
	230965.4076	-0.996431	10.3789	-0.000920	-0.029
41°47'	142513.7981	30.850638	3729.5751	0.004127	1.720
	230905.6218	-0.996758	10.3237	-0.000919	-0.029
41°48'	144364.8364	30.850728	3729.8227	0.004106	1.719
	230845.8163	-0.997085	10.2685	-0.000919	-0.029
41°49'	146215.8801	30.850818	3730.0691	0.004085	1.718
	230785.9912	-0.997412	10.2134	-0.000918	-0.029
41°50'	148066.9292	30.850908	3730.3142	0.004064	1.717
	230726.1465	-0.997739	10.1583	-0.000918	-0.029
41°51'	149917.9837	30.850998	3730.5581	0.004043	1.716
	230666.2821	-0.998066	10.1032	-0.000918	-0.029
41°52'	151769.0435	30.851088	3730.8007	0.004022	1.714
	230606.3982	-0.998393	10.0482	-0.000917	-0.029
41°53'	153620.1088	30.851177	3731.0420	0.004001	1.713
	230546.4946	-0.998720	9.9931	-0.000917	-0.029
41°54'	155471.1794	30.851267	3731.2821	0.003980	1.712
	230486.5714	-0.999047	9.9381	-0.000916	-0.029
41°55'	157322.2554	30.851357	3731.5209	0.003959	1.711
	230426.6285	-0.999373	9.8831	-0.000916	-0.029
41°56'	159173.3369	30.851447	3731.7585	0.003938	1.710
	230366.6661	-0.999700	9.8282	-0.000916	-0.029
41°57'	161024.4237	30.851537	3731.9948	0.003917	1.709
	230306.6841	-1.000027	9.7732	-0.000915	-0.029
41°58'	162875.5159	30.851627	3732.2298	0.003896	1.707
	230246.6825	-1.000353	9.7183	-0.000915	-0.029
41°59'	164726.6135	30.851717	3732.4635	0.003875	1.706
	230186.6614	-1.000679	9.6634	-0.000915	-0.029
42° 0'	166577.7165	30.851806	3732.6960	0.003854	1.705
	230126.6206	-1.001006	9.6085	-0.000914	-0.029
42° 1'	168428.8249	30.851896	3732.9273	0.003833	1.704
	230066.5603	-1.001332	9.5537	-0.000914	-0.029
42° 2'	170279.9387	30.851986	3733.1573	0.003812	1.703
	230006.4804	-1.001658	9.4989	-0.000913	-0.029
42° 3'	172131.0578	30.852076	3733.3860	0.003791	1.702
	229946.3809	-1.001984	9.4441	-0.000913	-0.029

42° 4'	173982.1824	30.852166	3733.6134	0.003770	1.700
	229886.2619	-1.002310	9.3893	-0.000913	-0.029
42° 5'	175833.3124	30.852256	3733.8396	0.003749	1.699
	229826.1233	-1.002636	9.3345	-0.000912	-0.029

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0014	0.0022	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42° 6'	177684.4477	30.852346	3734.0645	0.003728	1.698
	229765.9651	-1.002961	9.2798	-0.000912	-0.029
42° 7'	179535.5885	30.852436	3734.2882	0.003707	1.697
	229705.7874	-1.003287	9.2251	-0.000911	-0.029
42° 8'	181386.7347	30.852526	3734.5106	0.003686	1.696
	229645.5902	-1.003613	9.1704	-0.000911	-0.029
42° 9'	183237.8862	30.852616	3734.7317	0.003664	1.694
	229585.3735	-1.003938	9.1157	-0.000911	-0.029
42°10'	185089.0431	30.852706	3734.9516	0.003643	1.693
	229525.1372	-1.004264	9.0611	-0.000910	-0.029
42°11'	186940.2055	30.852796	3735.1702	0.003622	1.692
	229464.8814	-1.004589	9.0065	-0.000910	-0.029
42°12'	188791.3732	30.852886	3735.3875	0.003601	1.691
	229404.6060	-1.004914	8.9519	-0.000909	-0.029
42°13'	190642.5464	30.852976	3735.6036	0.003580	1.690
	229344.3112	-1.005239	8.8973	-0.000909	-0.029
42°14'	192493.7249	30.853066	3735.8184	0.003559	1.689
	229283.9968	-1.005564	8.8428	-0.000909	-0.029
42°15'	194344.9088	30.853156	3736.0320	0.003538	1.687
	229223.6630	-1.005889	8.7883	-0.000908	-0.029
42°16'	196196.0982	30.853246	3736.2443	0.003517	1.686
	229163.3096	-1.006214	8.7338	-0.000908	-0.029
42°17'	198047.2929	30.853336	3736.4553	0.003496	1.685
	229102.9367	-1.006539	8.6793	-0.000907	-0.029
42°18'	199898.4930	30.853426	3736.6650	0.003475	1.684
	229042.5444	-1.006864	8.6249	-0.000907	-0.029
42°19'	201749.6986	30.853516	3736.8735	0.003454	1.683
	228982.1325	-1.007189	8.5704	-0.000907	-0.029
42°20'	203600.9095	30.853606	3737.0808	0.003433	1.681
	228921.7012	-1.007513	8.5160	-0.000906	-0.030
42°21'	205452.1258	30.853696	3737.2867	0.003412	1.680
	228861.2504	-1.007838	8.4617	-0.000906	-0.030
42°22'	207303.3476	30.853786	3737.4914	0.003391	1.679
	228800.7802	-1.008162	8.4073	-0.000905	-0.030
42°23'	209154.5747	30.853876	3737.6949	0.003370	1.678
	228740.2904	-1.008487	8.3530	-0.000905	-0.030
42°24'	211005.8072	30.853966	3737.8971	0.003348	1.677
	228679.7812	-1.008811	8.2987	-0.000905	-0.030
42°25'	212857.0452	30.854056	3738.0980	0.003327	1.675
	228619.2526	-1.009135	8.2444	-0.000904	-0.030

42°26'	214708.2885	30.854146	3738.2976	0.003306	1.674
	228558.7045	-1.009459	8.1902	-0.000904	-0.030
42°27'	216559.5373	30.854236	3738.4960	0.003285	1.673
	228498.1369	-1.009783	8.1359	-0.000903	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0022	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°28'	218410.7914	30.854326	3738.6931	0.003264	1.672
	228437.5500	-1.010107	8.0817	-0.000903	-0.030
42°29'	220262.0509	30.854416	3738.8890	0.003243	1.671
	228376.9435	-1.010431	8.0275	-0.000903	-0.030
42°30'	222113.3159	30.854506	3739.0835	0.003222	1.669
	228316.3177	-1.010755	7.9734	-0.000902	-0.030
42°31'	223964.5863	30.854596	3739.2769	0.003201	1.668
	228255.6724	-1.011078	7.9193	-0.000902	-0.030
42°32'	225815.8620	30.854686	3739.4689	0.003180	1.667
	228195.0077	-1.011402	7.8651	-0.000901	-0.030
42°33'	227667.1432	30.854776	3739.6597	0.003159	1.666
	228134.3236	-1.011725	7.8111	-0.000901	-0.030
42°34'	229518.4297	30.854866	3739.8492	0.003138	1.665
	228073.6201	-1.012049	7.7570	-0.000901	-0.030
42°35'	231369.7217	30.854956	3740.0375	0.003117	1.663
	228012.8971	-1.012372	7.7030	-0.000900	-0.030
42°36'	233221.0191	30.855046	3740.2245	0.003095	1.662
	227952.1548	-1.012695	7.6490	-0.000900	-0.030
42°37'	235072.3219	30.855136	3740.4102	0.003074	1.661
	227891.3931	-1.013019	7.5950	-0.000899	-0.030
42°38'	236923.6300	30.855227	3740.5947	0.003053	1.660
	227830.6120	-1.013342	7.5410	-0.000899	-0.030
42°39'	238774.9436	30.855317	3740.7779	0.003032	1.659
	227769.8115	-1.013665	7.4871	-0.000899	-0.030
42°40'	240626.2626	30.855407	3740.9598	0.003011	1.657
	227708.9916	-1.013988	7.4332	-0.000898	-0.030
42°41'	242477.5870	30.855497	3741.1405	0.002990	1.656
	227648.1523	-1.014310	7.3793	-0.000898	-0.030
42°42'	244328.9168	30.855587	3741.3199	0.002969	1.655
	227587.2937	-1.014633	7.3254	-0.000897	-0.030
42°43'	246180.2521	30.855677	3741.4980	0.002948	1.654
	227526.4157	-1.014956	7.2716	-0.000897	-0.030
42°44'	248031.5927	30.855767	3741.6749	0.002927	1.653
	227465.5184	-1.015278	7.2178	-0.000896	-0.030
42°45'	249882.9387	30.855857	3741.8505	0.002906	1.651
	227404.6017	-1.015601	7.1640	-0.000896	-0.030
42°46'	251734.2902	30.855947	3742.0248	0.002885	1.650
	227343.6656	-1.015923	7.1102	-0.000896	-0.030
42°47'	253585.6470	30.856038	3742.1979	0.002863	1.649
	227282.7102	-1.016246	7.0565	-0.000895	-0.030

42°48'	255437.0093	30.856128	3742.3697	0.002842	1.648
	227221.7354	-1.016568	7.0028	-0.000895	-0.030
42°49'	257288.3769	30.856218	3742.5402	0.002821	1.646
	227160.7414	-1.016890	6.9491	-0.000894	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
42°50'	259139.7500	30.856308	3742.7095	0.002800	1.645
	227099.7280	-1.017212	6.8954	-0.000894	-0.030
42°51'	260991.1285	30.856398	3742.8775	0.002779	1.644
	227038.6952	-1.017534	6.8418	-0.000894	-0.030
42°52'	262842.5124	30.856488	3743.0443	0.002758	1.643
	226977.6432	-1.017856	6.7882	-0.000893	-0.030
42°53'	264693.9017	30.856579	3743.2097	0.002737	1.642
	226916.5718	-1.018178	6.7346	-0.000893	-0.030
42°54'	266545.2964	30.856669	3743.3739	0.002716	1.640
	226855.4811	-1.018500	6.6810	-0.000892	-0.030
42°55'	268396.6965	30.856759	3743.5369	0.002695	1.639
	226794.3711	-1.018821	6.6275	-0.000892	-0.030
42°56'	270248.1020	30.856849	3743.6986	0.002673	1.638
	226733.2418	-1.019143	6.5740	-0.000891	-0.030
42°57'	272099.5130	30.856939	3743.8590	0.002652	1.637
	226672.0933	-1.019465	6.5205	-0.000891	-0.030
42°58'	273950.9293	30.857029	3744.0181	0.002631	1.635
	226610.9254	-1.019786	6.4670	-0.000891	-0.030
42°59'	275802.3511	30.857120	3744.1760	0.002610	1.634
	226549.7382	-1.020107	6.4136	-0.000890	-0.030
43° 0'	277653.7783	30.857210	3744.3326	0.002589	1.633
	226488.5318	-1.020428	6.3602	-0.000890	-0.030
43° 1'	279505.2109	30.857300	3744.4879	0.002568	1.632
	226427.3061	-1.020750	6.3068	-0.000889	-0.030
43° 2'	281356.6489	30.857390	3744.6420	0.002547	1.631
	226366.0611	-1.021071	6.2535	-0.000889	-0.030
43° 3'	283208.0923	30.857480	3744.7948	0.002526	1.629
	226304.7969	-1.021392	6.2001	-0.000888	-0.030
43° 4'	285059.5411	30.857571	3744.9464	0.002505	1.628
	226243.5134	-1.021713	6.1468	-0.000888	-0.030
43° 5'	286910.9953	30.857661	3745.0966	0.002483	1.627
	226182.2106	-1.022033	6.0935	-0.000888	-0.030
43° 6'	288762.4550	30.857751	3745.2456	0.002462	1.626
	226120.8886	-1.022354	6.0403	-0.000887	-0.030
43° 7'	290613.9200	30.857841	3745.3934	0.002441	1.624
	226059.5473	-1.022675	5.9870	-0.000887	-0.030
43° 8'	292465.3905	30.857931	3745.5398	0.002420	1.623
	225998.1869	-1.022995	5.9338	-0.000886	-0.030
43° 9'	294316.8664	30.858022	3745.6850	0.002399	1.622
	225936.8071	-1.023316	5.8807	-0.000886	-0.030

43°10'	296168.3477	30.858112	3745.8290	0.002378	1.621
	225875.4082	-1.023636	5.8275	-0.000885	-0.030
43°11'	298019.8344	30.858202	3745.9716	0.002357	1.620
	225813.9900	-1.023957	5.7744	-0.000885	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°12'	299871.3266	30.858292	3746.1131	0.002336	1.618
	225752.5526	-1.024277	5.7213	-0.000885	-0.030
43°13'	301722.8241	30.858383	3746.2532	0.002314	1.617
	225691.0960	-1.024597	5.6682	-0.000884	-0.030
43°14'	303574.3271	30.858473	3746.3921	0.002293	1.616
	225629.6202	-1.024917	5.6151	-0.000884	-0.030
43°15'	305425.8354	30.858563	3746.5297	0.002272	1.615
	225568.1252	-1.025237	5.5621	-0.000883	-0.030
43°16'	307277.3492	30.858653	3746.6660	0.002251	1.613
	225506.6109	-1.025557	5.5091	-0.000883	-0.030
43°17'	309128.8684	30.858744	3746.8010	0.002230	1.612
	225445.0775	-1.025877	5.4561	-0.000882	-0.030
43°18'	310980.3931	30.858834	3746.9348	0.002209	1.611
	225383.5249	-1.026196	5.4032	-0.000882	-0.030
43°19'	312831.9231	30.858924	3747.0674	0.002188	1.610
	225321.9531	-1.026516	5.3503	-0.000882	-0.030
43°20'	314683.4586	30.859014	3747.1986	0.002167	1.608
	225260.3622	-1.026836	5.2974	-0.000881	-0.030
43°21'	316534.9994	30.859105	3747.3286	0.002145	1.607
	225198.7520	-1.027155	5.2445	-0.000881	-0.030
43°22'	318386.5457	30.859195	3747.4573	0.002124	1.606
	225137.1227	-1.027474	5.1917	-0.000880	-0.030
43°23'	320238.0974	30.859285	3747.5848	0.002103	1.605
	225075.4743	-1.027794	5.1389	-0.000880	-0.030
43°24'	322089.6545	30.859376	3747.7110	0.002082	1.603
	225013.8066	-1.028113	5.0861	-0.000879	-0.030
43°25'	323941.2171	30.859466	3747.8359	0.002061	1.602
	224952.1199	-1.028432	5.0333	-0.000879	-0.030
43°26'	325792.7850	30.859556	3747.9596	0.002040	1.601
	224890.4139	-1.028751	4.9806	-0.000879	-0.030
43°27'	327644.3584	30.859646	3748.0819	0.002019	1.600
	224828.6889	-1.029070	4.9278	-0.000878	-0.030
43°28'	329495.9372	30.859737	3748.2031	0.001997	1.599
	224766.9447	-1.029389	4.8752	-0.000878	-0.030
43°29'	331347.5214	30.859827	3748.3229	0.001976	1.597
	224705.1813	-1.029708	4.8225	-0.000877	-0.030
43°30'	333199.1110	30.859917	3748.4415	0.001955	1.596
	224643.3988	-1.030026	4.7699	-0.000877	-0.030
43°31'	335050.7061	30.860008	3748.5588	0.001934	1.595
	224581.5973	-1.030345	4.7173	-0.000876	-0.030

43°32'	336902.3065	30.860098	3748.6748	0.001913	1.594
	224519.7766	-1.030664	4.6647	-0.000876	-0.030
43°33'	338753.9124	30.860188	3748.7896	0.001892	1.592
	224457.9367	-1.030982	4.6121	-0.000875	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°34'	340605.5237	30.860279	3748.9031	0.001871	1.591
	224396.0778	-1.031300	4.5596	-0.000875	-0.030
43°35'	342457.1404	30.860369	3749.0154	0.001849	1.590
	224334.1998	-1.031619	4.5071	-0.000875	-0.030
43°36'	344308.7626	30.860459	3749.1263	0.001828	1.589
	224272.3027	-1.031937	4.4546	-0.000874	-0.030
43°37'	346160.3901	30.860550	3749.2360	0.001807	1.587
	224210.3865	-1.032255	4.4022	-0.000874	-0.030
43°38'	348012.0231	30.860640	3749.3445	0.001786	1.586
	224148.4512	-1.032573	4.3497	-0.000873	-0.030
43°39'	349863.6615	30.860730	3749.4516	0.001765	1.585
	224086.4968	-1.032891	4.2973	-0.000873	-0.030
43°40'	351715.3053	30.860821	3749.5575	0.001744	1.584
	224024.5233	-1.033209	4.2450	-0.000872	-0.030
43°41'	353566.9545	30.860911	3749.6621	0.001723	1.582
	223962.5308	-1.033527	4.1926	-0.000872	-0.030
43°42'	355418.6092	30.861001	3749.7655	0.001701	1.581
	223900.5192	-1.033844	4.1403	-0.000871	-0.030
43°43'	357270.2693	30.861092	3749.8676	0.001680	1.580
	223838.4886	-1.034162	4.0880	-0.000871	-0.030
43°44'	359121.9348	30.861182	3749.9684	0.001659	1.579
	223776.4388	-1.034479	4.0358	-0.000871	-0.030
43°45'	360973.6057	30.861272	3750.0679	0.001638	1.577
	223714.3701	-1.034797	3.9835	-0.000870	-0.030
43°46'	362825.2820	30.861363	3750.1662	0.001617	1.576
	223652.2823	-1.035114	3.9313	-0.000870	-0.030
43°47'	364676.9638	30.861453	3750.2632	0.001596	1.575
	223590.1754	-1.035431	3.8791	-0.000869	-0.030
43°48'	366528.6510	30.861543	3750.3590	0.001575	1.574
	223528.0496	-1.035748	3.8270	-0.000869	-0.030
43°49'	368380.3436	30.861634	3750.4535	0.001553	1.572
	223465.9046	-1.036066	3.7749	-0.000868	-0.030
43°50'	370232.0416	30.861724	3750.5467	0.001532	1.571
	223403.7407	-1.036383	3.7228	-0.000868	-0.030
43°51'	372083.7450	30.861814	3750.6386	0.001511	1.570
	223341.5578	-1.036699	3.6707	-0.000867	-0.030
43°52'	373935.4539	30.861905	3750.7293	0.001490	1.569
	223279.3558	-1.037016	3.6186	-0.000867	-0.030
43°53'	375787.1682	30.861995	3750.8187	0.001469	1.567
	223217.1348	-1.037333	3.5666	-0.000867	-0.030

43°54'	377638.8879	30.862086	3750.9068	0.001448	1.566
	223154.8948	-1.037650	3.5146	-0.000866	-0.030
43°55'	379490.6130	30.862176	3750.9936	0.001426	1.565
	223092.6359	-1.037966	3.4627	-0.000866	-0.030

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
43°56'	381342.3436	30.862266	3751.0792	0.001405	1.564
	223030.3579	-1.038283	3.4107	-0.000865	-0.030
43°57'	383194.0796	30.862357	3751.1635	0.001384	1.562
	222968.0609	-1.038599	3.3588	-0.000865	-0.030
43°58'	385045.8210	30.862447	3751.2466	0.001363	1.561
	222905.7450	-1.038915	3.3069	-0.000864	-0.030
43°59'	386897.5678	30.862537	3751.3284	0.001342	1.560
	222843.4101	-1.039232	3.2551	-0.000864	-0.030
44° 0'	388749.3200	30.862628	3751.4089	0.001321	1.558
	222781.0562	-1.039548	3.2032	-0.000863	-0.030
44° 1'	390601.0777	30.862718	3751.4881	0.001300	1.557
	222718.6833	-1.039864	3.1514	-0.000863	-0.030
44° 2'	392452.8408	30.862809	3751.5661	0.001278	1.556
	222656.2915	-1.040180	3.0997	-0.000862	-0.030
44° 3'	394304.6093	30.862899	3751.6428	0.001257	1.555
	222593.8807	-1.040496	3.0479	-0.000862	-0.030
44° 4'	396156.3833	30.862989	3751.7182	0.001236	1.553
	222531.4509	-1.040811	2.9962	-0.000862	-0.030
44° 5'	398008.1626	30.863080	3751.7924	0.001215	1.552
	222469.0023	-1.041127	2.9445	-0.000861	-0.030
44° 6'	399859.9474	30.863170	3751.8653	0.001194	1.551
	222406.5346	-1.041443	2.8928	-0.000861	-0.030
44° 7'	401711.7376	30.863261	3751.9369	0.001173	1.550
	222344.0481	-1.041758	2.8412	-0.000860	-0.030
44° 8'	403563.5333	30.863351	3752.0073	0.001151	1.548
	222281.5426	-1.042074	2.7896	-0.000860	-0.030
44° 9'	405415.3343	30.863441	3752.0764	0.001130	1.547
	222219.0181	-1.042389	2.7380	-0.000859	-0.030
44°10'	407267.1408	30.863532	3752.1442	0.001109	1.546
	222156.4748	-1.042704	2.6865	-0.000859	-0.030
44°11'	409118.9527	30.863622	3752.2107	0.001088	1.545
	222093.9125	-1.043020	2.6349	-0.000858	-0.030
44°12'	410970.7701	30.863713	3752.2760	0.001067	1.543
	222031.3314	-1.043335	2.5834	-0.000858	-0.030
44°13'	412822.5928	30.863803	3752.3400	0.001046	1.542
	221968.7313	-1.043650	2.5320	-0.000857	-0.030
44°14'	414674.4210	30.863893	3752.4027	0.001024	1.541
	221906.1123	-1.043965	2.4805	-0.000857	-0.030
44°15'	416526.2546	30.863984	3752.4642	0.001003	1.539
	221843.4744	-1.044279	2.4291	-0.000856	-0.030

44°16'	418378.0936	30.864074	3752.5244	0.000982	1.538
	221780.8177	-1.044594	2.3777	-0.000856	-0.030
44°17'	420229.9381	30.864165	3752.5833	0.000961	1.537
	221718.1420	-1.044909	2.3264	-0.000856	-0.030

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV)	0.0000	0.0013	0.0021	0.0024

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°18'	422081.7880	30.864255	3752.6410	0.000940	1.536
	221655.4475	-1.045223	2.2750	-0.000855	-0.030
44°19'	423933.6433	30.864346	3752.6974	0.000919	1.534
	221592.7341	-1.045538	2.2237	-0.000855	-0.030
44°20'	425785.5040	30.864436	3752.7525	0.000897	1.533
	221530.0018	-1.045852	2.1724	-0.000854	-0.030
44°21'	427637.3702	30.864526	3752.8063	0.000876	1.532
	221467.2507	-1.046167	2.1212	-0.000854	-0.030
44°22'	429489.2418	30.864617	3752.8589	0.000855	1.531
	221404.4807	-1.046481	2.0700	-0.000853	-0.030
44°23'	431341.1188	30.864707	3752.9102	0.000834	1.529
	221341.6918	-1.046795	2.0188	-0.000853	-0.030
44°24'	433193.0012	30.864798	3752.9602	0.000813	1.528
	221278.8841	-1.047109	1.9676	-0.000852	-0.030
44°25'	435044.8891	30.864888	3753.0090	0.000792	1.527
	221216.0576	-1.047423	1.9165	-0.000852	-0.030
44°26'	436896.7824	30.864979	3753.0565	0.000770	1.525
	221153.2122	-1.047737	1.8654	-0.000851	-0.030
44°27'	438748.6811	30.865069	3753.1027	0.000749	1.524
	221090.3480	-1.048051	1.8143	-0.000851	-0.031
44°28'	440600.5852	30.865159	3753.1477	0.000728	1.523
	221027.4650	-1.048364	1.7632	-0.000850	-0.031
44°29'	442452.4948	30.865250	3753.1914	0.000707	1.522
	220964.5631	-1.048678	1.7122	-0.000850	-0.031
44°30'	444304.4098	30.865340	3753.2338	0.000686	1.520
	220901.6424	-1.048992	1.6612	-0.000849	-0.031
44°31'	446156.3302	30.865431	3753.2749	0.000665	1.519
	220838.7029	-1.049305	1.6102	-0.000849	-0.031
44°32'	448008.2560	30.865521	3753.3148	0.000643	1.518
	220775.7446	-1.049618	1.5593	-0.000849	-0.031
44°33'	449860.1873	30.865612	3753.3534	0.000622	1.517
	220712.7675	-1.049932	1.5084	-0.000848	-0.031
44°34'	451712.1240	30.865702	3753.3907	0.000601	1.515
	220649.7716	-1.050245	1.4575	-0.000848	-0.031
44°35'	453564.0661	30.865793	3753.4268	0.000580	1.514
	220586.7569	-1.050558	1.4066	-0.000847	-0.031
44°36'	455416.0137	30.865883	3753.4616	0.000559	1.513
	220523.7234	-1.050871	1.3558	-0.000847	-0.031
44°37'	457267.9667	30.865973	3753.4951	0.000538	1.511
	220460.6712	-1.051184	1.3050	-0.000846	-0.031

44°38'	459119.9251	30.866064	3753.5274	0.000516	1.510
	220397.6001	-1.051497	1.2542	-0.000846	-0.031
44°39'	460971.8889	30.866154	3753.5584	0.000495	1.509
	220334.5103	-1.051810	1.2035	-0.000845	-0.031

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

WYOMING Grid coordinates from geodetic coordinates

Lat	(I)/(IV)	diff.1"	(II)/(V)	diff.1"	(III)/(VI)
44°40'	462823.8582	30.866245	3753.5881	0.000474	1.508
	220271.4018	-1.052122	1.1528	-0.000845	-0.031
44°41'	464675.8329	30.866335	3753.6165	0.000453	1.506
	220208.2744	-1.052435	1.1021	-0.000844	-0.031
44°42'	466527.8130	30.866426	3753.6437	0.000432	1.505
	220145.1284	-1.052747	1.0514	-0.000844	-0.031
44°43'	468379.7985	30.866516	3753.6696	0.000411	1.504
	220081.9635	-1.053060	1.0008	-0.000843	-0.031
44°44'	470231.7895	30.866607	3753.6942	0.000389	1.502
	220018.7799	-1.053372	0.9502	-0.000843	-0.031
44°45'	472083.7859	30.866697	3753.7176	0.000368	1.501
	219955.5776	-1.053684	0.8996	-0.000842	-0.031
44°46'	473935.7877	30.866788	3753.7397	0.000347	1.500
	219892.3566	-1.053996	0.8491	-0.000842	-0.031
44°47'	475787.7950	30.866878	3753.7605	0.000326	1.499
	219829.1168	-1.054308	0.7986	-0.000841	-0.031
44°48'	477639.8077	30.866968	3753.7800	0.000305	1.497
	219765.8583	-1.054620	0.7481	-0.000841	-0.031
44°49'	479491.8258	30.867059	3753.7983	0.000283	1.496
	219702.5811	-1.054932	0.6977	-0.000840	-0.031
44°50'	481343.8493	30.867149	3753.8153	0.000262	1.495
	219639.2851	-1.055244	0.6472	-0.000840	-0.031
44°51'	483195.8783	30.867240	3753.8310	0.000241	1.493
	219575.9705	-1.055556	0.5968	-0.000839	-0.031
44°52'	485047.9127	30.867330	3753.8455	0.000220	1.492
	219512.6371	-1.055867	0.5465	-0.000839	-0.031
44°53'	486899.9525	30.867421	3753.8587	0.000199	1.491
	219449.2851	-1.056179	0.4961	-0.000839	-0.031
44°54'	488751.9977	30.867511	3753.8706	0.000178	1.489
	219385.9143	-1.056490	0.4458	-0.000838	-0.031
44°55'	490604.0484	30.867602	3753.8813	0.000156	1.488
	219322.5249	-1.056802	0.3955	-0.000838	-0.031
44°56'	492456.1045	30.867692	3753.8907	0.000135	1.487
	219259.1168	-1.057113	0.3453	-0.000837	-0.031
44°57'	494308.1660	30.867783	3753.8988	0.000114	1.486
	219195.6900	-1.057424	0.2950	-0.000837	-0.031
44°58'	496160.2330	30.867873	3753.9056	0.000093	1.484
	219132.2446	-1.057735	0.2449	-0.000836	-0.031
44°59'	498012.3054	30.867964	3753.9112	0.000072	1.483
	219068.7805	-1.058046	0.1947	-0.000836	-0.031

45° 0'	499864.3832	30.868054	3753.9155	0.000051	1.482
	219005.2977	-1.058357	0.1446	-0.000835	-0.031

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IV) 0.0000	0.0013	0.0021	0.0023

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41° 0'	55521.0696	30.846424	2206.1527	0.021465	32.650
	42790.9561	0.179725	439.7232	0.007005	8.552
41° 1'	57371.8551	30.846514	2207.4406	0.021476	32.681
	42801.7396	0.179876	440.1435	0.007015	8.566
41° 2'	59222.6459	30.846603	2208.7292	0.021486	32.712
	42812.5322	0.180028	440.5644	0.007025	8.581
41° 3'	61073.4421	30.846693	2210.0184	0.021497	32.743
	42823.3339	0.180179	440.9860	0.007035	8.595
41° 4'	62924.2437	30.846782	2211.3082	0.021508	32.774
	42834.1446	0.180331	441.4080	0.007045	8.610
41° 5'	64775.0507	30.846872	2212.5987	0.021519	32.805
	42844.9645	0.180483	441.8307	0.007055	8.624
41° 6'	66625.8630	30.846962	2213.8898	0.021530	32.836
	42855.7935	0.180635	442.2540	0.007065	8.639
41° 7'	68476.6807	30.847051	2215.1816	0.021540	32.867
	42866.6316	0.180787	442.6779	0.007074	8.653
41° 8'	70327.5037	30.847141	2216.4740	0.021551	32.899
	42877.4788	0.180939	443.1023	0.007084	8.668
41° 9'	72178.3322	30.847230	2217.7671	0.021562	32.930
	42888.3352	0.181092	443.5274	0.007094	8.682
41°10'	74029.1660	30.847320	2219.0608	0.021573	32.961
	42899.2007	0.181245	443.9531	0.007104	8.697
41°11'	75880.0052	30.847409	2220.3552	0.021584	32.992
	42910.0754	0.181397	444.3793	0.007114	8.712
41°12'	77730.8497	30.847499	2221.6502	0.021595	33.024
	42920.9592	0.181550	444.8062	0.007124	8.726
41°13'	79581.6997	30.847588	2222.9459	0.021606	33.055
	42931.8522	0.181703	445.2336	0.007134	8.741
41°14'	81432.5550	30.847678	2224.2422	0.021617	33.086
	42942.7544	0.181856	445.6617	0.007144	8.756
41°15'	83283.4156	30.847768	2225.5392	0.021627	33.118
	42953.6658	0.182010	446.0903	0.007154	8.771
41°16'	85134.2817	30.847857	2226.8369	0.021638	33.149
	42964.5864	0.182163	446.5196	0.007164	8.785
41°17'	86985.1531	30.847947	2228.1352	0.021649	33.181
	42975.5162	0.182317	446.9494	0.007174	8.800
41°18'	88836.0299	30.848036	2229.4341	0.021660	33.212
	42986.4552	0.182471	447.3799	0.007184	8.815
41°19'	90686.9121	30.848126	2230.7337	0.021671	33.244
	42997.4034	0.182625	447.8110	0.007195	8.830

41°20'	92537.7997	30.848216	2232.0340	0.021682	33.276
	43008.3609	0.182779	448.2426	0.007205	8.845
41°21'	94388.6926	30.848305	2233.3350	0.021693	33.307
	43019.3276	0.182933	448.6749	0.007215	8.860

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX)	0.0000	-0.0006	-0.0010	-0.0012

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°22'	96239.5910	30.848395	2234.6365	0.021704	33.339
	43030.3036	0.183087	449.1078	0.007225	8.875
41°23'	98090.4947	30.848485	2235.9388	0.021715	33.371
	43041.2889	0.183242	449.5413	0.007235	8.890
41°24'	99941.4037	30.848574	2237.2417	0.021726	33.403
	43052.2834	0.183397	449.9754	0.007245	8.905
41°25'	101792.3182	30.848664	2238.5453	0.021737	33.434
	43063.2872	0.183551	450.4101	0.007256	8.920
41°26'	103643.2380	30.848754	2239.8495	0.021748	33.466
	43074.3003	0.183706	450.8455	0.007266	8.935
41°27'	105494.1632	30.848843	2241.1545	0.021760	33.498
	43085.3226	0.183862	451.2814	0.007276	8.950
41°28'	107345.0938	30.848933	2242.4600	0.021771	33.530
	43096.3543	0.184017	451.7180	0.007286	8.966
41°29'	109196.0298	30.849023	2243.7663	0.021782	33.562
	43107.3954	0.184172	452.1552	0.007297	8.981
41°30'	111046.9712	30.849112	2245.0732	0.021793	33.594
	43118.4457	0.184328	452.5929	0.007307	8.996
41°31'	112897.9179	30.849202	2246.3807	0.021804	33.626
	43129.5054	0.184484	453.0314	0.007317	9.011
41°32'	114748.8701	30.849292	2247.6890	0.021815	33.658
	43140.5744	0.184640	453.4704	0.007327	9.027
41°33'	116599.8276	30.849382	2248.9979	0.021826	33.690
	43151.6528	0.184796	453.9100	0.007338	9.042
41°34'	118450.7905	30.849471	2250.3074	0.021837	33.723
	43162.7405	0.184952	454.3503	0.007348	9.057
41°35'	120301.7587	30.849561	2251.6177	0.021849	33.755
	43173.8376	0.185108	454.7912	0.007359	9.073
41°36'	122152.7324	30.849651	2252.9286	0.021860	33.787
	43184.9441	0.185265	455.2327	0.007369	9.088
41°37'	124003.7114	30.849740	2254.2402	0.021871	33.819
	43196.0600	0.185421	455.6748	0.007379	9.104
41°38'	125854.6959	30.849830	2255.5524	0.021882	33.852
	43207.1852	0.185578	456.1176	0.007390	9.119
41°39'	127705.6857	30.849920	2256.8654	0.021893	33.884
	43218.3199	0.185735	456.5610	0.007400	9.135
41°40'	129556.6809	30.850010	2258.1790	0.021905	33.916
	43229.4640	0.185892	457.0050	0.007411	9.150
41°41'	131407.6815	30.850100	2259.4932	0.021916	33.949
	43240.6176	0.186049	457.4497	0.007421	9.166

41°42'	133258.6874	30.850189	2260.8082	0.021927	33.981
	43251.7805	0.186207	457.8949	0.007432	9.182
41°43'	135109.6988	30.850279	2262.1238	0.021938	34.014
	43262.9530	0.186364	458.3408	0.007442	9.197

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
41°44'	136960.7156	30.850369	2263.4401	0.021950	34.046
	43274.1348	0.186522	458.7874	0.007453	9.213
41°45'	138811.7377	30.850459	2264.7571	0.021961	34.079
	43285.3262	0.186680	459.2345	0.007463	9.229
41°46'	140662.7652	30.850549	2266.0748	0.021972	34.112
	43296.5270	0.186838	459.6824	0.007474	9.244
41°47'	142513.7981	30.850638	2267.3931	0.021984	34.144
	43307.7373	0.186996	460.1308	0.007485	9.260
41°48'	144364.8364	30.850728	2268.7121	0.021995	34.177
	43318.9570	0.187155	460.5799	0.007495	9.276
41°49'	146215.8801	30.850818	2270.0318	0.022006	34.210
	43330.1863	0.187313	461.0296	0.007506	9.292
41°50'	148066.9292	30.850908	2271.3522	0.022018	34.243
	43341.4251	0.187472	461.4799	0.007516	9.308
41°51'	149917.9837	30.850998	2272.6732	0.022029	34.275
	43352.6734	0.187631	461.9309	0.007527	9.324
41°52'	151769.0435	30.851088	2273.9950	0.022040	34.308
	43363.9313	0.187790	462.3825	0.007538	9.340
41°53'	153620.1088	30.851177	2275.3174	0.022052	34.341
	43375.1987	0.187949	462.8348	0.007549	9.356
41°54'	155471.1794	30.851267	2276.6405	0.022063	34.374
	43386.4756	0.188108	463.2877	0.007559	9.372
41°55'	157322.2554	30.851357	2277.9643	0.022075	34.407
	43397.7621	0.188268	463.7413	0.007570	9.388
41°56'	159173.3369	30.851447	2279.2888	0.022086	34.440
	43409.0581	0.188427	464.1955	0.007581	9.404
41°57'	161024.4237	30.851537	2280.6139	0.022097	34.473
	43420.3638	0.188587	464.6503	0.007592	9.420
41°58'	162875.5159	30.851627	2281.9398	0.022109	34.506
	43431.6790	0.188747	465.1058	0.007602	9.436
41°59'	164726.6135	30.851717	2283.2663	0.022120	34.539
	43443.0038	0.188907	465.5620	0.007613	9.452
42° 0'	166577.7165	30.851806	2284.5935	0.022132	34.573
	43454.3382	0.189067	466.0187	0.007624	9.469
42° 1'	168428.8249	30.851896	2285.9214	0.022143	34.606
	43465.6822	0.189228	466.4762	0.007635	9.485
42° 2'	170279.9387	30.851986	2287.2500	0.022155	34.639
	43477.0359	0.189388	466.9343	0.007646	9.501
42° 3'	172131.0578	30.852076	2288.5793	0.022166	34.672
	43488.3992	0.189549	467.3930	0.007657	9.517

42° 4'	173982.1824	30.852166	2289.9093	0.022178	34.706
	43499.7721	0.189710	467.8524	0.007668	9.534
42° 5'	175833.3124	30.852256	2291.2400	0.022190	34.739
	43511.1547	0.189871	468.3125	0.007678	9.550

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42° 6'	177684.4477	30.852346	2292.5714	0.022201	34.773
	43522.5469	0.190032	468.7732	0.007689	9.567
42° 7'	179535.5885	30.852436	2293.9034	0.022213	34.806
	43533.9488	0.190193	469.2345	0.007700	9.583
42° 8'	181386.7347	30.852526	2295.2362	0.022224	34.840
	43545.3604	0.190355	469.6966	0.007711	9.600
42° 9'	183237.8862	30.852616	2296.5696	0.022236	34.873
	43556.7817	0.190516	470.1593	0.007722	9.616
42°10'	185089.0431	30.852706	2297.9038	0.022247	34.907
	43568.2127	0.190678	470.6226	0.007733	9.633
42°11'	186940.2055	30.852796	2299.2386	0.022259	34.940
	43579.6534	0.190840	471.0866	0.007744	9.649
42°12'	188791.3732	30.852886	2300.5742	0.022271	34.974
	43591.1038	0.191002	471.5513	0.007756	9.666
42°13'	190642.5464	30.852976	2301.9104	0.022282	35.008
	43602.5640	0.191165	472.0166	0.007767	9.683
42°14'	192493.7249	30.853066	2303.2474	0.022294	35.042
	43614.0339	0.191327	472.4826	0.007778	9.699
42°15'	194344.9088	30.853156	2304.5850	0.022306	35.075
	43625.5135	0.191490	472.9493	0.007789	9.716
42°16'	196196.0982	30.853246	2305.9234	0.022317	35.109
	43637.0029	0.191653	473.4166	0.007800	9.733
42°17'	198047.2929	30.853336	2307.2624	0.022329	35.143
	43648.5020	0.191816	473.8846	0.007811	9.750
42°18'	199898.4930	30.853426	2308.6021	0.022341	35.177
	43660.0110	0.191979	474.3533	0.007822	9.766
42°19'	201749.6986	30.853516	2309.9426	0.022353	35.211
	43671.5297	0.192142	474.8226	0.007834	9.783
42°20'	203600.9095	30.853606	2311.2838	0.022364	35.245
	43683.0582	0.192305	475.2926	0.007845	9.800
42°21'	205452.1258	30.853696	2312.6256	0.022376	35.279
	43694.5965	0.192469	475.7633	0.007856	9.817
42°22'	207303.3476	30.853786	2313.9682	0.022388	35.313
	43706.1447	0.192633	476.2346	0.007867	9.834
42°23'	209154.5747	30.853876	2315.3114	0.022400	35.347
	43717.7026	0.192797	476.7067	0.007878	9.851
42°24'	211005.8072	30.853966	2316.6554	0.022411	35.381
	43729.2705	0.192961	477.1794	0.007890	9.868
42°25'	212857.0452	30.854056	2318.0001	0.022423	35.416
	43740.8481	0.193125	477.6528	0.007901	9.885

42°26'	214708.2885	30.854146	2319.3455	0.022435	35.450
	43752.4356	0.193290	478.1268	0.007912	9.903
42°27'	216559.5373	30.854236	2320.6916	0.022447	35.484
	43764.0330	0.193454	478.6016	0.007924	9.920

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°28'	218410.7914	30.854326	2322.0384	0.022459	35.519
	43775.6402	0.193619	479.0770	0.007935	9.937
42°29'	220262.0509	30.854416	2323.3860	0.022471	35.553
	43787.2574	0.193784	479.5531	0.007947	9.954
42°30'	222113.3159	30.854506	2324.7342	0.022483	35.587
	43798.8844	0.193949	480.0299	0.007958	9.971
42°31'	223964.5863	30.854596	2326.0831	0.022494	35.622
	43810.5213	0.194114	480.5074	0.007969	9.989
42°32'	225815.8620	30.854686	2327.4328	0.022506	35.656
	43822.1682	0.194280	480.9856	0.007981	10.006
42°33'	227667.1432	30.854776	2328.7832	0.022518	35.691
	43833.8249	0.194445	481.4644	0.007992	10.023
42°34'	229518.4297	30.854866	2330.1343	0.022530	35.726
	43845.4916	0.194611	481.9440	0.008004	10.041
42°35'	231369.7217	30.854956	2331.4861	0.022542	35.760
	43857.1683	0.194777	482.4242	0.008015	10.058
42°36'	233221.0191	30.855046	2332.8386	0.022554	35.795
	43868.8549	0.194943	482.9051	0.008027	10.076
42°37'	235072.3219	30.855136	2334.1919	0.022566	35.830
	43880.5515	0.195109	483.3867	0.008038	10.093
42°38'	236923.6300	30.855227	2335.5458	0.022578	35.864
	43892.2580	0.195275	483.8690	0.008050	10.111
42°39'	238774.9436	30.855317	2336.9005	0.022590	35.899
	43903.9745	0.195442	484.3520	0.008062	10.129
42°40'	240626.2626	30.855407	2338.2559	0.022602	35.934
	43915.7010	0.195609	484.8357	0.008073	10.146
42°41'	242477.5870	30.855497	2339.6120	0.022614	35.969
	43927.4376	0.195776	485.3201	0.008085	10.164
42°42'	244328.9168	30.855587	2340.9689	0.022626	36.004
	43939.1841	0.195943	485.8052	0.008097	10.182
42°43'	246180.2521	30.855677	2342.3264	0.022638	36.039
	43950.9407	0.196110	486.2910	0.008108	10.199
42°44'	248031.5927	30.855767	2343.6847	0.022650	36.074
	43962.7073	0.196277	486.7775	0.008120	10.217
42°45'	249882.9387	30.855857	2345.0438	0.022662	36.109
	43974.4839	0.196445	487.2647	0.008132	10.235
42°46'	251734.2902	30.855947	2346.4035	0.022674	36.144
	43986.2706	0.196613	487.7526	0.008143	10.253
42°47'	253585.6470	30.856038	2347.7640	0.022687	36.179
	43998.0674	0.196781	488.2412	0.008155	10.271

42°48'	255437.0093	30.856128	2349.1251	0.022699	36.215
	44009.8742	0.196949	488.7305	0.008167	10.289
42°49'	257288.3769	30.856218	2350.4871	0.022711	36.250
	44021.6912	0.197117	489.2205	0.008179	10.307

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
42°50'	259139.7500	30.856308	2351.8497	0.022723	36.285
	44033.5182	0.197285	489.7112	0.008191	10.325
42°51'	260991.1285	30.856398	2353.2131	0.022735	36.320
	44045.3553	0.197454	490.2026	0.008202	10.343
42°52'	262842.5124	30.856488	2354.5772	0.022747	36.356
	44057.2026	0.197623	490.6948	0.008214	10.361
42°53'	264693.9017	30.856579	2355.9420	0.022759	36.391
	44069.0599	0.197792	491.1876	0.008226	10.379
42°54'	266545.2964	30.856669	2357.3076	0.022772	36.427
	44080.9274	0.197961	491.6812	0.008238	10.397
42°55'	268396.6965	30.856759	2358.6739	0.022784	36.462
	44092.8051	0.198130	492.1755	0.008250	10.416
42°56'	270248.1020	30.856849	2360.0409	0.022796	36.498
	44104.6929	0.198300	492.6705	0.008262	10.434
42°57'	272099.5130	30.856939	2361.4087	0.022808	36.533
	44116.5909	0.198469	493.1662	0.008274	10.452
42°58'	273950.9293	30.857029	2362.7772	0.022821	36.569
	44128.4990	0.198639	493.6626	0.008286	10.470
42°59'	275802.3511	30.857120	2364.1464	0.022833	36.605
	44140.4174	0.198809	494.1598	0.008298	10.489
43° 0'	277653.7783	30.857210	2365.5164	0.022845	36.640
	44152.3459	0.198979	494.6576	0.008310	10.507
43° 1'	279505.2109	30.857300	2366.8871	0.022858	36.676
	44164.2847	0.199149	495.1562	0.008322	10.526
43° 2'	281356.6489	30.857390	2368.2586	0.022870	36.712
	44176.2336	0.199320	495.6555	0.008334	10.544
43° 3'	283208.0923	30.857480	2369.6308	0.022882	36.748
	44188.1928	0.199491	496.1556	0.008346	10.563
43° 4'	285059.5411	30.857571	2371.0037	0.022894	36.784
	44200.1623	0.199661	496.6563	0.008358	10.581
43° 5'	286910.9953	30.857661	2372.3774	0.022907	36.820
	44212.1419	0.199832	497.1578	0.008370	10.600
43° 6'	288762.4550	30.857751	2373.7518	0.022919	36.856
	44224.1319	0.200004	497.6601	0.008382	10.618
43° 7'	290613.9200	30.857841	2375.1269	0.022932	36.892
	44236.1321	0.200175	498.1630	0.008395	10.637
43° 8'	292465.3905	30.857931	2376.5028	0.022944	36.928
	44248.1426	0.200346	498.6667	0.008407	10.656
43° 9'	294316.8664	30.858022	2377.8795	0.022956	36.964
	44260.1634	0.200518	499.1711	0.008419	10.675

43°10'	296168.3477	30.858112	2379.2569	0.022969	37.000
	44272.1945	0.200690	499.6762	0.008431	10.693
43°11'	298019.8344	30.858202	2380.6350	0.022981	37.037
	44284.2359	0.200862	500.1821	0.008444	10.712

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°12'	299871.3266	30.858292	2382.0139	0.022994	37.073
	44296.2876	0.201034	500.6887	0.008456	10.731
43°13'	301722.8241	30.858383	2383.3935	0.023006	37.109
	44308.3497	0.201207	501.1961	0.008468	10.750
43°14'	303574.3271	30.858473	2384.7739	0.023019	37.146
	44320.4221	0.201379	501.7042	0.008481	10.769
43°15'	305425.8354	30.858563	2386.1550	0.023031	37.182
	44332.5048	0.201552	502.2130	0.008493	10.788
43°16'	307277.3492	30.858653	2387.5369	0.023044	37.218
	44344.5980	0.201725	502.7226	0.008505	10.807
43°17'	309128.8684	30.858744	2388.9195	0.023056	37.255
	44356.7015	0.201898	503.2329	0.008518	10.826
43°18'	310980.3931	30.858834	2390.3029	0.023069	37.291
	44368.8153	0.202071	503.7440	0.008530	10.845
43°19'	312831.9231	30.858924	2391.6870	0.023081	37.328
	44380.9396	0.202245	504.2558	0.008542	10.865
43°20'	314683.4586	30.859014	2393.0719	0.023094	37.365
	44393.0743	0.202418	504.7683	0.008555	10.884
43°21'	316534.9994	30.859105	2394.4575	0.023107	37.401
	44405.2194	0.202592	505.2816	0.008567	10.903
43°22'	318386.5457	30.859195	2395.8439	0.023119	37.438
	44417.3750	0.202766	505.7957	0.008580	10.922
43°23'	320238.0974	30.859285	2397.2310	0.023132	37.475
	44429.5409	0.202940	506.3104	0.008592	10.942
43°24'	322089.6545	30.859376	2398.6189	0.023144	37.512
	44441.7174	0.203115	506.8260	0.008605	10.961
43°25'	323941.2171	30.859466	2400.0076	0.023157	37.549
	44453.9043	0.203289	507.3423	0.008618	10.981
43°26'	325792.7850	30.859556	2401.3970	0.023170	37.586
	44466.1016	0.203464	507.8594	0.008630	11.000
43°27'	327644.3584	30.859646	2402.7872	0.023182	37.623
	44478.3095	0.203639	508.3772	0.008643	11.019
43°28'	329495.9372	30.859737	2404.1781	0.023195	37.660
	44490.5278	0.203814	508.8957	0.008655	11.039
43°29'	331347.5214	30.859827	2405.5698	0.023208	37.697
	44502.7566	0.203989	509.4151	0.008668	11.059
43°30'	333199.1110	30.859917	2406.9623	0.023220	37.734
	44514.9960	0.204165	509.9352	0.008681	11.078
43°31'	335050.7061	30.860008	2408.3555	0.023233	37.771
	44527.2459	0.204340	510.4560	0.008694	11.098

43°32'	336902.3065	30.860098	2409.7495	0.023246	37.808
	44539.5063	0.204516	510.9776	0.008706	11.118
43°33'	338753.9124	30.860188	2411.1443	0.023259	37.845
	44551.7773	0.204692	511.5000	0.008719	11.137

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°34'	340605.5237	30.860279	2412.5398	0.023271	37.883
	44564.0588	0.204868	512.0231	0.008732	11.157
43°35'	342457.1404	30.860369	2413.9361	0.023284	37.920
	44576.3509	0.205044	512.5470	0.008745	11.177
43°36'	344308.7626	30.860459	2415.3331	0.023297	37.957
	44588.6535	0.205221	513.0717	0.008757	11.197
43°37'	346160.3901	30.860550	2416.7310	0.023310	37.995
	44600.9668	0.205398	513.5971	0.008770	11.217
43°38'	348012.0231	30.860640	2418.1296	0.023323	38.032
	44613.2906	0.205575	514.1234	0.008783	11.237
43°39'	349863.6615	30.860730	2419.5289	0.023336	38.070
	44625.6251	0.205752	514.6504	0.008796	11.257
43°40'	351715.3053	30.860821	2420.9290	0.023348	38.108
	44637.9702	0.205929	515.1781	0.008809	11.277
43°41'	353566.9545	30.860911	2422.3300	0.023361	38.145
	44650.3259	0.206106	515.7066	0.008822	11.297
43°42'	355418.6092	30.861001	2423.7316	0.023374	38.183
	44662.6923	0.206284	516.2360	0.008835	11.317
43°43'	357270.2693	30.861092	2425.1341	0.023387	38.221
	44675.0694	0.206462	516.7660	0.008848	11.337
43°44'	359121.9348	30.861182	2426.5373	0.023400	38.258
	44687.4571	0.206640	517.2969	0.008861	11.358
43°45'	360973.6057	30.861272	2427.9413	0.023413	38.296
	44699.8554	0.206818	517.8286	0.008874	11.378
43°46'	362825.2820	30.861363	2429.3461	0.023426	38.334
	44712.2645	0.206996	518.3610	0.008887	11.398
43°47'	364676.9638	30.861453	2430.7516	0.023439	38.372
	44724.6843	0.207175	518.8942	0.008900	11.419
43°48'	366528.6510	30.861543	2432.1580	0.023452	38.410
	44737.1147	0.207353	519.4282	0.008913	11.439
43°49'	368380.3436	30.861634	2433.5651	0.023465	38.448
	44749.5559	0.207532	519.9630	0.008926	11.459
43°50'	370232.0416	30.861724	2434.9730	0.023478	38.486
	44762.0079	0.207711	520.4986	0.008939	11.480
43°51'	372083.7450	30.861814	2436.3816	0.023491	38.524
	44774.4705	0.207891	521.0349	0.008952	11.501
43°52'	373935.4539	30.861905	2437.7911	0.023504	38.562
	44786.9440	0.208070	521.5721	0.008966	11.521
43°53'	375787.1682	30.861995	2439.2013	0.023517	38.601
	44799.4282	0.208250	522.1100	0.008979	11.542

43°54'	377638.8879	30.862086	2440.6123	0.023530	38.639
	44811.9232	0.208429	522.6487	0.008992	11.562
43°55'	379490.6130	30.862176	2442.0241	0.023543	38.677
	44824.4289	0.208609	523.1883	0.009005	11.583

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
43°56'	381342.3436	30.862266	2443.4367	0.023556	38.716
	44836.9455	0.208790	523.7286	0.009019	11.604
43°57'	383194.0796	30.862357	2444.8501	0.023569	38.754
	44849.4729	0.208970	524.2697	0.009032	11.625
43°58'	385045.8210	30.862447	2446.2643	0.023582	38.792
	44862.0111	0.209151	524.8116	0.009045	11.646
43°59'	386897.5678	30.862537	2447.6792	0.023596	38.831
	44874.5601	0.209331	525.3544	0.009059	11.666
44° 0'	388749.3200	30.862628	2449.0949	0.023609	38.870
	44887.1200	0.209512	525.8979	0.009072	11.687
44° 1'	390601.0777	30.862718	2450.5115	0.023622	38.908
	44899.6907	0.209693	526.4422	0.009086	11.708
44° 2'	392452.8408	30.862809	2451.9288	0.023635	38.947
	44912.2723	0.209875	526.9873	0.009099	11.729
44° 3'	394304.6093	30.862899	2453.3469	0.023648	38.986
	44924.8648	0.210056	527.5333	0.009112	11.751
44° 4'	396156.3833	30.862989	2454.7658	0.023662	39.024
	44937.4682	0.210238	528.0800	0.009126	11.772
44° 5'	398008.1626	30.863080	2456.1855	0.023675	39.063
	44950.0825	0.210420	528.6276	0.009139	11.793
44° 6'	399859.9474	30.863170	2457.6060	0.023688	39.102
	44962.7077	0.210602	529.1759	0.009153	11.814
44° 7'	401711.7376	30.863261	2459.0272	0.023701	39.141
	44975.3438	0.210784	529.7251	0.009166	11.835
44° 8'	403563.5333	30.863351	2460.4493	0.023715	39.180
	44987.9908	0.210967	530.2751	0.009180	11.857
44° 9'	405415.3343	30.863441	2461.8722	0.023728	39.219
	45000.6488	0.211149	530.8259	0.009194	11.878
44°10'	407267.1408	30.863532	2463.2959	0.023741	39.258
	45013.3178	0.211332	531.3775	0.009207	11.899
44°11'	409118.9527	30.863622	2464.7203	0.023755	39.297
	45025.9977	0.211515	531.9300	0.009221	11.921
44°12'	410970.7701	30.863713	2466.1456	0.023768	39.336
	45038.6886	0.211698	532.4832	0.009235	11.942
44°13'	412822.5928	30.863803	2467.5717	0.023781	39.375
	45051.3905	0.211882	533.0373	0.009248	11.964
44°14'	414674.4210	30.863893	2468.9986	0.023795	39.415
	45064.1034	0.212065	533.5922	0.009262	11.986
44°15'	416526.2546	30.863984	2470.4262	0.023808	39.454
	45076.8274	0.212249	534.1479	0.009276	12.007

44°16'	418378.0936	30.864074	2471.8547	0.023821	39.493
	45089.5623	0.212433	534.7045	0.009290	12.029
44°17'	420229.9381	30.864165	2473.2840	0.023835	39.533
	45102.3083	0.212617	535.2618	0.009303	12.051

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(IX)0.0000	-0.0008	-0.0012	-0.0014

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°18'	422081.7880	30.864255	2474.7141	0.023848	39.572
	45115.0654	0.212802	535.8200	0.009317	12.072
44°19'	423933.6433	30.864346	2476.1450	0.023862	39.612
	45127.8335	0.212986	536.3791	0.009331	12.094
44°20'	425785.5040	30.864436	2477.5767	0.023875	39.651
	45140.6126	0.213171	536.9389	0.009345	12.116
44°21'	427637.3702	30.864526	2479.0092	0.023889	39.691
	45153.4029	0.213356	537.4996	0.009359	12.138
44°22'	429489.2418	30.864617	2480.4425	0.023902	39.731
	45166.2043	0.213541	538.0612	0.009373	12.160
44°23'	431341.1188	30.864707	2481.8767	0.023916	39.770
	45179.0167	0.213727	538.6235	0.009387	12.182
44°24'	433193.0012	30.864798	2483.3116	0.023929	39.810
	45191.8403	0.213912	539.1867	0.009401	12.204
44°25'	435044.8891	30.864888	2484.7474	0.023943	39.850
	45204.6751	0.214098	539.7508	0.009415	12.226
44°26'	436896.7824	30.864979	2486.1839	0.023956	39.890
	45217.5209	0.214284	540.3157	0.009429	12.248
44°27'	438748.6811	30.865069	2487.6213	0.023970	39.930
	45230.3779	0.214470	540.8814	0.009443	12.271
44°28'	440600.5852	30.865159	2489.0595	0.023984	39.970
	45243.2461	0.214656	541.4480	0.009457	12.293
44°29'	442452.4948	30.865250	2490.4985	0.023997	40.010
	45256.1255	0.214843	542.0154	0.009471	12.315
44°30'	444304.4098	30.865340	2491.9383	0.024011	40.050
	45269.0161	0.215029	542.5836	0.009485	12.338
44°31'	446156.3302	30.865431	2493.3790	0.024024	40.090
	45281.9178	0.215216	543.1527	0.009499	12.360
44°32'	448008.2560	30.865521	2494.8205	0.024038	40.130
	45294.8308	0.215403	543.7227	0.009513	12.383
44°33'	449860.1873	30.865612	2496.2627	0.024052	40.171
	45307.7550	0.215591	544.2935	0.009528	12.405
44°34'	451712.1240	30.865702	2497.7058	0.024065	40.211
	45320.6905	0.215778	544.8652	0.009542	12.428
44°35'	453564.0661	30.865793	2499.1498	0.024079	40.251
	45333.6372	0.215966	545.4377	0.009556	12.450
44°36'	455416.0137	30.865883	2500.5945	0.024093	40.292
	45346.5951	0.216154	546.0111	0.009570	12.473
44°37'	457267.9667	30.865973	2502.0401	0.024107	40.332
	45359.5643	0.216342	546.5853	0.009585	12.496

44°38'	459119.9251	30.866064	2503.4865	0.024120	40.373
	45372.5449	0.216530	547.1604	0.009599	12.518
44°39'	460971.8889	30.866154	2504.9337	0.024134	40.413
	45385.5367	0.216719	547.7363	0.009613	12.541

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

WYOMING Geodetic coordinates from grid coordinates

Lat	(I)/(IX)	diff.1"	(VII)/(X)	diff.1"	(VIII)/(XI)
44°40'	462823.8582	30.866245	2506.3817	0.024148	40.454
	45398.5398	0.216907	548.3131	0.009628	12.564
44°41'	464675.8329	30.866335	2507.8306	0.024162	40.495
	45411.5542	0.217096	548.8908	0.009642	12.587
44°42'	466527.8130	30.866426	2509.2803	0.024176	40.535
	45424.5800	0.217285	549.4693	0.009657	12.610
44°43'	468379.7985	30.866516	2510.7308	0.024189	40.576
	45437.6172	0.217475	550.0487	0.009671	12.633
44°44'	470231.7895	30.866607	2512.1822	0.024203	40.617
	45450.6656	0.217664	550.6290	0.009686	12.656
44°45'	472083.7859	30.866697	2513.6344	0.024217	40.658
	45463.7255	0.217854	551.2101	0.009700	12.679
44°46'	473935.7877	30.866788	2515.0874	0.024231	40.699
	45476.7967	0.218044	551.7922	0.009715	12.702
44°47'	475787.7950	30.866878	2516.5413	0.024245	40.740
	45489.8794	0.218234	552.3750	0.009729	12.726
44°48'	477639.8077	30.866968	2517.9960	0.024259	40.781
	45502.9734	0.218424	552.9588	0.009744	12.749
44°49'	479491.8258	30.867059	2519.4515	0.024273	40.822
	45516.0788	0.218615	553.5434	0.009759	12.772
44°50'	481343.8493	30.867149	2520.9079	0.024287	40.863
	45529.1957	0.218805	554.1290	0.009773	12.796
44°51'	483195.8783	30.867240	2522.3651	0.024301	40.904
	45542.3240	0.218996	554.7154	0.009788	12.819
44°52'	485047.9127	30.867330	2523.8231	0.024315	40.946
	45555.4638	0.219187	555.3026	0.009803	12.842
44°53'	486899.9525	30.867421	2525.2820	0.024329	40.987
	45568.6151	0.219379	555.8908	0.009817	12.866
44°54'	488751.9977	30.867511	2526.7417	0.024343	41.028
	45581.7778	0.219570	556.4798	0.009832	12.890
44°55'	490604.0484	30.867602	2528.2022	0.024357	41.070
	45594.9520	0.219762	557.0698	0.009847	12.913
44°56'	492456.1045	30.867692	2529.6636	0.024371	41.111
	45608.1377	0.219954	557.6606	0.009862	12.937
44°57'	494308.1660	30.867783	2531.1259	0.024385	41.153
	45621.3350	0.220146	558.2523	0.009877	12.961
44°58'	496160.2330	30.867873	2532.5889	0.024399	41.195
	45634.5437	0.220338	558.8449	0.009891	12.984
44°59'	498012.3054	30.867964	2534.0529	0.024413	41.236
	45647.7640	0.220531	559.4384	0.009906	13.008

45° 0'	499864.3832	30.868054	2535.5176	0.024427	41.278
	45660.9959	0.220724	560.0328	0.009921	13.032

Second difference corrections:

	00"	10"	20"	30"	00"	10"	20"	30"
	60"	50"	40"	30"	60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(IX) 0.0000	-0.0008	-0.0013	-0.0014

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41° 0'	55521.0696	30.846424	6560.5903	0.036585	2.962	
			28073.3931	0.274499	401.855	0.012304
41° 1'	57371.8551	30.846514	6562.7854	0.036575	2.961	
			28089.8631	0.274638	402.294	0.012304
41° 2'	59222.6459	30.846603	6564.9799	0.036566	2.960	
			28106.3413	0.274777	402.734	0.012304
41° 3'	61073.4421	30.846693	6567.1739	0.036557	2.960	
			28122.8279	0.274916	403.175	0.012304
41° 4'	62924.2437	30.846782	6569.3673	0.036548	2.959	
			28139.3229	0.275055	403.616	0.012304
41° 5'	64775.0507	30.846872	6571.5602	0.036538	2.959	
			28155.8261	0.275194	404.058	0.012304
41° 6'	66625.8630	30.846962	6573.7525	0.036529	2.958	
			28172.3378	0.275333	404.500	0.012304
41° 7'	68476.6807	30.847051	6575.9442	0.036520	2.958	
			28188.8578	0.275473	404.943	0.012304
41° 8'	70327.5037	30.847141	6578.1354	0.036511	2.957	
			28205.3861	0.275612	405.386	0.012304
41° 9'	72178.3322	30.847230	6580.3260	0.036501	2.957	
			28221.9229	0.275752	405.830	0.012304
41°10'	74029.1660	30.847320	6582.5161	0.036492	2.956	
			28238.4680	0.275892	406.275	0.012304
41°11'	75880.0052	30.847409	6584.7056	0.036483	2.956	
			28255.0215	0.276032	406.720	0.012304
41°12'	77730.8497	30.847499	6586.8946	0.036473	2.955	
			28271.5834	0.276173	407.166	0.012303
41°13'	79581.6997	30.847588	6589.0830	0.036464	2.955	
			28288.1538	0.276313	407.612	0.012303
41°14'	81432.5550	30.847678	6591.2709	0.036455	2.954	
			28304.7326	0.276454	408.059	0.012303
41°15'	83283.4156	30.847768	6593.4582	0.036446	2.954	
			28321.3198	0.276594	408.507	0.012303
41°16'	85134.2817	30.847857	6595.6449	0.036436	2.953	
			28337.9154	0.276735	408.955	0.012303
41°17'	86985.1531	30.847947	6597.8311	0.036427	2.952	
			28354.5196	0.276876	409.403	0.012303
41°18'	88836.0299	30.848036	6600.0167	0.036418	2.952	
			28371.1321	0.277017	409.853	0.012303
41°19'	90686.9121	30.848126	6602.2017	0.036408	2.951	
			28387.7532	0.277159	410.303	0.012303

41°20'	92537.7997	30.848216	6604.3862	0.036399	2.951	
			28404.3827	0.277300	410.753	0.012303
41°21'	94388.6926	30.848305	6606.5702	0.036390	2.950	
			28421.0207	0.277442	411.204	0.012303

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.0009	-0.0011

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°22'	96239.5910	30.848395	6608.7536	0.036380	2.950	
			28437.6672	0.277584	411.656	0.012303
41°23'	98090.4947	30.848485	6610.9364	0.036371	2.949	
			28454.3223	0.277726	412.109	0.012303
41°24'	99941.4037	30.848574	6613.1187	0.036362	2.949	
			28470.9858	0.277868	412.561	0.012303
41°25'	101792.3182	30.848664	6615.3004	0.036352	2.948	
			28487.6579	0.278010	413.015	0.012303
41°26'	103643.2380	30.848754	6617.4815	0.036343	2.947	
			28504.3385	0.278153	413.469	0.012303
41°27'	105494.1632	30.848843	6619.6621	0.036334	2.947	
			28521.0277	0.278295	413.924	0.012303
41°28'	107345.0938	30.848933	6621.8421	0.036324	2.946	
			28537.7254	0.278438	414.379	0.012303
41°29'	109196.0298	30.849023	6624.0216	0.036315	2.946	
			28554.4317	0.278581	414.835	0.012303
41°30'	111046.9712	30.849112	6626.2005	0.036306	2.945	
			28571.1466	0.278724	415.292	0.012303
41°31'	112897.9179	30.849202	6628.3788	0.036296	2.945	
			28587.8700	0.278867	415.749	0.012303
41°32'	114748.8701	30.849292	6630.5566	0.036287	2.944	
			28604.6021	0.279011	416.207	0.012303
41°33'	116599.8276	30.849382	6632.7338	0.036278	2.944	
			28621.3427	0.279154	416.665	0.012302
41°34'	118450.7905	30.849471	6634.9105	0.036268	2.943	
			28638.0920	0.279298	417.124	0.012302
41°35'	120301.7587	30.849561	6637.0866	0.036259	2.942	
			28654.8499	0.279442	417.584	0.012302
41°36'	122152.7324	30.849651	6639.2621	0.036250	2.942	
			28671.6164	0.279586	418.044	0.012302
41°37'	124003.7114	30.849740	6641.4371	0.036240	2.941	
			28688.3915	0.279730	418.505	0.012302
41°38'	125854.6959	30.849830	6643.6115	0.036231	2.941	
			28705.1753	0.279875	418.967	0.012302
41°39'	127705.6857	30.849920	6645.7854	0.036221	2.940	
			28721.9678	0.280019	419.429	0.012302
41°40'	129556.6809	30.850010	6647.9587	0.036212	2.939	
			28738.7690	0.280164	419.891	0.012302
41°41'	131407.6815	30.850100	6650.1314	0.036203	2.939	
			28755.5788	0.280309	420.355	0.012302

41°42'	133258.6874	30.850189	6652.3035	0.036193	2.938	
			28772.3973	0.280454	420.819	0.012302
41°43'	135109.6988	30.850279	6654.4751	0.036184	2.938	
			28789.2245	0.280599	421.283	0.012302

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
41°44'	136960.7156	30.850369	6656.6462	0.036175	2.937	
			28806.0605	0.280744	421.749	0.012302
41°45'	138811.7377	30.850459	6658.8167	0.036165	2.937	
			28822.9051	0.280890	422.214	0.012302
41°46'	140662.7652	30.850549	6660.9866	0.036156	2.936	
			28839.7585	0.281035	422.681	0.012302
41°47'	142513.7981	30.850638	6663.1559	0.036146	2.935	
			28856.6206	0.281181	423.148	0.012302
41°48'	144364.8364	30.850728	6665.3247	0.036137	2.935	
			28873.4914	0.281327	423.616	0.012302
41°49'	146215.8801	30.850818	6667.4929	0.036128	2.934	
			28890.3711	0.281473	424.084	0.012302
41°50'	148066.9292	30.850908	6669.6606	0.036118	2.934	
			28907.2594	0.281619	424.553	0.012302
41°51'	149917.9837	30.850998	6671.8277	0.036109	2.933	
			28924.1566	0.281766	425.023	0.012302
41°52'	151769.0435	30.851088	6673.9942	0.036099	2.932	
			28941.0626	0.281912	425.493	0.012302
41°53'	153620.1088	30.851177	6676.1602	0.036090	2.932	
			28957.9773	0.282059	425.964	0.012302
41°54'	155471.1794	30.851267	6678.3256	0.036081	2.931	
			28974.9009	0.282206	426.435	0.012301
41°55'	157322.2554	30.851357	6680.4904	0.036071	2.931	
			28991.8332	0.282353	426.908	0.012301
41°56'	159173.3369	30.851447	6682.6547	0.036062	2.930	
			29008.7744	0.282501	427.380	0.012301
41°57'	161024.4237	30.851537	6684.8184	0.036052	2.929	
			29025.7245	0.282648	427.854	0.012301
41°58'	162875.5159	30.851627	6686.9815	0.036043	2.929	
			29042.6833	0.282796	428.328	0.012301
41°59'	164726.6135	30.851717	6689.1441	0.036033	2.928	
			29059.6511	0.282943	428.803	0.012301
42° 0'	166577.7165	30.851806	6691.3061	0.036024	2.928	
			29076.6277	0.283091	429.278	0.012301
42° 1'	168428.8249	30.851896	6693.4675	0.036015	2.927	
			29093.6131	0.283239	429.754	0.012301
42° 2'	170279.9387	30.851986	6695.6284	0.036005	2.926	
			29110.6075	0.283388	430.231	0.012301
42° 3'	172131.0578	30.852076	6697.7887	0.035996	2.926	
			29127.6108	0.283536	430.708	0.012301

42° 4'	173982.1824	30.852166	6699.9484	0.035986	2.925	
			29144.6229	0.283685	431.186	0.012301
42° 5'	175833.3124	30.852256	6702.1076	0.035977	2.925	
			29161.6440	0.283833	431.664	0.012301

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0006	-0.001	-0.0011

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42° 6'	177684.4477	30.852346	6704.2662	0.035967	2.924	
			29178.6740	0.283982	432.144	0.012301
42° 7'	179535.5885	30.852436	6706.4242	0.035958	2.923	
			29195.7129	0.284131	432.623	0.012301
42° 8'	181386.7347	30.852526	6708.5817	0.035948	2.923	
			29212.7608	0.284281	433.104	0.012301
42° 9'	183237.8862	30.852616	6710.7386	0.035939	2.922	
			29229.8176	0.284430	433.585	0.012301
42°10'	185089.0431	30.852706	6712.8949	0.035929	2.922	
			29246.8834	0.284580	434.067	0.012301
42°11'	186940.2055	30.852796	6715.0507	0.035920	2.921	
			29263.9582	0.284729	434.549	0.012301
42°12'	188791.3732	30.852886	6717.2059	0.035910	2.920	
			29281.0420	0.284879	435.033	0.012301
42°13'	190642.5464	30.852976	6719.3605	0.035901	2.920	
			29298.1347	0.285029	435.516	0.012301
42°14'	192493.7249	30.853066	6721.5146	0.035892	2.919	
			29315.2365	0.285179	436.001	0.012300
42°15'	194344.9088	30.853156	6723.6681	0.035882	2.918	
			29332.3472	0.285330	436.486	0.012300
42°16'	196196.0982	30.853246	6725.8210	0.035873	2.918	
			29349.4670	0.285480	436.972	0.012300
42°17'	198047.2929	30.853336	6727.9734	0.035863	2.917	
			29366.5958	0.285631	437.458	0.012300
42°18'	199898.4930	30.853426	6730.1251	0.035854	2.917	
			29383.7337	0.285782	437.945	0.012300
42°19'	201749.6986	30.853516	6732.2763	0.035844	2.916	
			29400.8807	0.285933	438.433	0.012300
42°20'	203600.9095	30.853606	6734.4270	0.035835	2.915	
			29418.0366	0.286084	438.921	0.012300
42°21'	205452.1258	30.853696	6736.5771	0.035825	2.915	
			29435.2017	0.286236	439.411	0.012300
42°22'	207303.3476	30.853786	6738.7266	0.035816	2.914	
			29452.3759	0.286387	439.900	0.012300
42°23'	209154.5747	30.853876	6740.8755	0.035806	2.913	
			29469.5591	0.286539	440.391	0.012300
42°24'	211005.8072	30.853966	6743.0239	0.035797	2.913	
			29486.7515	0.286691	440.882	0.012300
42°25'	212857.0452	30.854056	6745.1717	0.035787	2.912	
			29503.9529	0.286843	441.374	0.012300

42°26'	214708.2885	30.854146	6747.3189	0.035778	2.911	
			29521.1635	0.286996	441.866	0.012300
42°27'	216559.5373	30.854236	6749.4655	0.035768	2.911	
			29538.3833	0.287148	442.359	0.012300

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0006	-0.0010	-0.0011

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°28'	218410.7914	30.854326	6751.6116	0.035759	2.910	
			29555.6122	0.287301	442.853	0.012300
42°29'	220262.0509	30.854416	6753.7571	0.035749	2.910	
			29572.8502	0.287453	443.347	0.012300
42°30'	222113.3159	30.854506	6755.9021	0.035739	2.909	
			29590.0974	0.287606	443.843	0.012300
42°31'	223964.5863	30.854596	6758.0464	0.035730	2.908	
			29607.3538	0.287759	444.338	0.012300
42°32'	225815.8620	30.854686	6760.1902	0.035720	2.908	
			29624.6193	0.287913	444.835	0.012300
42°33'	227667.1432	30.854776	6762.3335	0.035711	2.907	
			29641.8941	0.288066	445.332	0.012300
42°34'	229518.4297	30.854866	6764.4761	0.035701	2.906	
			29659.1781	0.288220	445.830	0.012300
42°35'	231369.7217	30.854956	6766.6182	0.035692	2.906	
			29676.4713	0.288374	446.328	0.012299
42°36'	233221.0191	30.855046	6768.7597	0.035682	2.905	
			29693.7737	0.288528	446.828	0.012299
42°37'	235072.3219	30.855136	6770.9006	0.035673	2.904	
			29711.0853	0.288682	447.328	0.012299
42°38'	236923.6300	30.855227	6773.0410	0.035663	2.904	
			29728.4063	0.288836	447.828	0.012299
42°39'	238774.9436	30.855317	6775.1808	0.035654	2.903	
			29745.7364	0.288991	448.329	0.012299
42°40'	240626.2626	30.855407	6777.3200	0.035644	2.902	
			29763.0759	0.289145	448.831	0.012299
42°41'	242477.5870	30.855497	6779.4586	0.035634	2.902	
			29780.4246	0.289300	449.334	0.012299
42°42'	244328.9168	30.855587	6781.5967	0.035625	2.901	
			29797.7826	0.289455	449.837	0.012299
42°43'	246180.2521	30.855677	6783.7342	0.035615	2.900	
			29815.1499	0.289610	450.341	0.012299
42°44'	248031.5927	30.855767	6785.8711	0.035606	2.900	
			29832.5265	0.289766	450.846	0.012299
42°45'	249882.9387	30.855857	6788.0075	0.035596	2.899	
			29849.9125	0.289921	451.352	0.012299
42°46'	251734.2902	30.855947	6790.1432	0.035587	2.898	
			29867.3078	0.290077	451.858	0.012299
42°47'	253585.6470	30.856038	6792.2784	0.035577	2.898	
			29884.7124	0.290233	452.365	0.012299

42°48'	255437.0093	30.856128	6794.4130	0.035567	2.897	
			29902.1263	0.290389	452.872	0.012299
42°49'	257288.3769	30.856218	6796.5471	0.035558	2.896	
			29919.5497	0.290545	453.380	0.012299

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0010	-0.0012

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
42°50'	259139.7500	30.856308	6798.6806	0.035548	2.896	
			29936.9824	0.290702	453.889	0.012299
42°51'	260991.1285	30.856398	6800.8135	0.035539	2.895	
			29954.4245	0.290858	454.399	0.012299
42°52'	262842.5124	30.856488	6802.9458	0.035529	2.894	
			29971.8760	0.291015	454.909	0.012299
42°53'	264693.9017	30.856579	6805.0775	0.035519	2.894	
			29989.3369	0.291172	455.420	0.012299
42°54'	266545.2964	30.856669	6807.2087	0.035510	2.893	
			30006.8072	0.291329	455.932	0.012299
42°55'	268396.6965	30.856759	6809.3393	0.035500	2.892	
			30024.2870	0.291486	456.444	0.012299
42°56'	270248.1020	30.856849	6811.4693	0.035491	2.892	
			30041.7762	0.291644	456.957	0.012298
42°57'	272099.5130	30.856939	6813.5987	0.035481	2.891	
			30059.2748	0.291802	457.471	0.012298
42°58'	273950.9293	30.857029	6815.7276	0.035471	2.890	
			30076.7829	0.291959	457.986	0.012298
42°59'	275802.3511	30.857120	6817.8559	0.035462	2.890	
			30094.3005	0.292117	458.501	0.012298
43° 0'	277653.7783	30.857210	6819.9836	0.035452	2.889	
			30111.8275	0.292276	459.017	0.012298
43° 1'	279505.2109	30.857300	6822.1107	0.035443	2.888	
			30129.3640	0.292434	459.534	0.012298
43° 2'	281356.6489	30.857390	6824.2373	0.035433	2.888	
			30146.9101	0.292593	460.051	0.012298
43° 3'	283208.0923	30.857480	6826.3633	0.035423	2.887	
			30164.4656	0.292751	460.569	0.012298
43° 4'	285059.5411	30.857571	6828.4887	0.035414	2.886	
			30182.0307	0.292910	461.088	0.012298
43° 5'	286910.9953	30.857661	6830.6135	0.035404	2.886	
			30199.6053	0.293069	461.608	0.012298
43° 6'	288762.4550	30.857751	6832.7377	0.035394	2.885	
			30217.1895	0.293229	462.128	0.012298
43° 7'	290613.9200	30.857841	6834.8614	0.035385	2.884	
			30234.7832	0.293388	462.649	0.012298
43° 8'	292465.3905	30.857931	6836.9845	0.035375	2.884	
			30252.3865	0.293548	463.171	0.012298
43° 9'	294316.8664	30.858022	6839.1070	0.035366	2.883	
			30269.9993	0.293707	463.693	0.012298

43°10'	296168.3477	30.858112	6841.2289	0.035356	2.882	
			30287.6218	0.293867	464.217	0.012298
43°11'	298019.8344	30.858202	6843.3503	0.035346	2.881	
			30305.2538	0.294028	464.741	0.012298

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°12'	299871.3266	30.858292	6845.4711	0.035337	2.881	
			30322.8955	0.294188	465.265	0.012298
43°13'	301722.8241	30.858383	6847.5913	0.035327	2.880	
			30340.5468	0.294349	465.791	0.012298
43°14'	303574.3271	30.858473	6849.7109	0.035317	2.879	
			30358.2077	0.294509	466.317	0.012298
43°15'	305425.8354	30.858563	6851.8299	0.035308	2.879	
			30375.8782	0.294670	466.844	0.012298
43°16'	307277.3492	30.858653	6853.9484	0.035298	2.878	
			30393.5584	0.294831	467.371	0.012298
43°17'	309128.8684	30.858744	6856.0662	0.035288	2.877	
			30411.2483	0.294992	467.899	0.012297
43°18'	310980.3931	30.858834	6858.1835	0.035279	2.877	
			30428.9479	0.295154	468.429	0.012297
43°19'	312831.9231	30.858924	6860.3002	0.035269	2.876	
			30446.6571	0.295316	468.958	0.012297
43°20'	314683.4586	30.859014	6862.4164	0.035259	2.875	
			30464.3760	0.295477	469.489	0.012297
43°21'	316534.9994	30.859105	6864.5319	0.035250	2.874	
			30482.1047	0.295639	470.020	0.012297
43°22'	318386.5457	30.859195	6866.6469	0.035240	2.874	
			30499.8430	0.295802	470.552	0.012297
43°23'	320238.0974	30.859285	6868.7613	0.035230	2.873	
			30517.5911	0.295964	471.085	0.012297
43°24'	322089.6545	30.859376	6870.8751	0.035220	2.872	
			30535.3490	0.296126	471.618	0.012297
43°25'	323941.2171	30.859466	6872.9883	0.035211	2.872	
			30553.1166	0.296289	472.153	0.012297
43°26'	325792.7850	30.859556	6875.1010	0.035201	2.871	
			30570.8939	0.296452	472.688	0.012297
43°27'	327644.3584	30.859646	6877.2131	0.035191	2.870	
			30588.6810	0.296615	473.223	0.012297
43°28'	329495.9372	30.859737	6879.3245	0.035182	2.869	
			30606.4779	0.296779	473.760	0.012297
43°29'	331347.5214	30.859827	6881.4354	0.035172	2.869	
			30624.2847	0.296942	474.297	0.012297
43°30'	333199.1110	30.859917	6883.5458	0.035162	2.868	
			30642.1012	0.297106	474.835	0.012297
43°31'	335050.7061	30.860008	6885.6555	0.035153	2.867	
			30659.9275	0.297270	475.374	0.012297

43°32'	336902.3065	30.860098	6887.7646	0.035143	2.867	
			30677.7637	0.297434	475.913	0.012297
43°33'	338753.9124	30.860188	6889.8732	0.035133	2.866	
			30695.6097	0.297598	476.454	0.012297

Second difference corrections:

	00"	10"	20"	30"		00"	10"	20"	30"
	60"	50"	40"	30"		60"	50"	40"	30"
(I)	0.0000	-0.0004	-0.0006	-0.0007	(XIV)	0.0000	-0.0007	-0.0011	-0.0012

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°34'	340605.5237	30.860279	6891.9812	0.035123	2.865	
			30713.4656	0.297762	476.995	0.012297
43°35'	342457.1404	30.860369	6894.0886	0.035114	2.864	
			30731.3313	0.297927	477.536	0.012297
43°36'	344308.7626	30.860459	6896.1954	0.035104	2.864	
			30749.2069	0.298092	478.079	0.012297
43°37'	346160.3901	30.860550	6898.3017	0.035094	2.863	
			30767.0924	0.298257	478.622	0.012297
43°38'	348012.0231	30.860640	6900.4073	0.035085	2.862	
			30784.9878	0.298422	479.166	0.012296
43°39'	349863.6615	30.860730	6902.5124	0.035075	2.861	
			30802.8931	0.298587	479.711	0.012296
43°40'	351715.3053	30.860821	6904.6169	0.035065	2.861	
			30820.8083	0.298753	480.257	0.012296
43°41'	353566.9545	30.860911	6906.7208	0.035055	2.860	
			30838.7335	0.298918	480.803	0.012296
43°42'	355418.6092	30.861001	6908.8241	0.035046	2.859	
			30856.6686	0.299084	481.350	0.012296
43°43'	357270.2693	30.861092	6910.9268	0.035036	2.858	
			30874.6136	0.299250	481.898	0.012296
43°44'	359121.9348	30.861182	6913.0290	0.035026	2.858	
			30892.5686	0.299417	482.447	0.012296
43°45'	360973.6057	30.861272	6915.1306	0.035016	2.857	
			30910.5336	0.299583	482.996	0.012296
43°46'	362825.2820	30.861363	6917.2315	0.035007	2.856	
			30928.5086	0.299750	483.547	0.012296
43°47'	364676.9638	30.861453	6919.3319	0.034997	2.856	
			30946.4936	0.299917	484.098	0.012296
43°48'	366528.6510	30.861543	6921.4317	0.034987	2.855	
			30964.4886	0.300084	484.649	0.012296
43°49'	368380.3436	30.861634	6923.5310	0.034977	2.854	
			30982.4936	0.300251	485.202	0.012296
43°50'	370232.0416	30.861724	6925.6296	0.034968	2.853	
			31000.5087	0.300418	485.755	0.012296
43°51'	372083.7450	30.861814	6927.7276	0.034958	2.853	
			31018.5338	0.300586	486.309	0.012296
43°52'	373935.4539	30.861905	6929.8251	0.034948	2.852	
			31036.5689	0.300754	486.864	0.012296
43°53'	375787.1682	30.861995	6931.9220	0.034938	2.851	
			31054.6141	0.300922	487.420	0.012296

43°54'	377638.8879	30.862086	6934.0183	0.034928	2.850	
			31072.6694	0.301090	487.977	0.012296
43°55'	379490.6130	30.862176	6936.1140	0.034919	2.850	
			31090.7348	0.301258	488.534	0.012296

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0011	-0.0013

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
43°56'	381342.3436	30.862266	6938.2091	0.034909	2.849	
			31108.8103	0.301427	489.092	0.012296
43°57'	383194.0796	30.862357	6940.3036	0.034899	2.848	
			31126.8960	0.301596	489.651	0.012296
43°58'	385045.8210	30.862447	6942.3976	0.034889	2.847	
			31144.9917	0.301765	490.210	0.012296
43°59'	386897.5678	30.862537	6944.4909	0.034879	2.847	
			31163.0976	0.301934	490.771	0.012295
44° 0'	388749.3200	30.862628	6946.5837	0.034870	2.846	
			31181.2136	0.302103	491.332	0.012295
44° 1'	390601.0777	30.862718	6948.6759	0.034860	2.845	
			31199.3398	0.302273	491.894	0.012295
44° 2'	392452.8408	30.862809	6950.7675	0.034850	2.844	
			31217.4762	0.302443	492.457	0.012295
44° 3'	394304.6093	30.862899	6952.8585	0.034840	2.843	
			31235.6227	0.302613	493.021	0.012295
44° 4'	396156.3833	30.862989	6954.9489	0.034830	2.843	
			31253.7795	0.302783	493.585	0.012295
44° 5'	398008.1626	30.863080	6957.0387	0.034821	2.842	
			31271.9465	0.302953	494.150	0.012295
44° 6'	399859.9474	30.863170	6959.1280	0.034811	2.841	
			31290.1236	0.303124	494.716	0.012295
44° 7'	401711.7376	30.863261	6961.2166	0.034801	2.840	
			31308.3110	0.303294	495.283	0.012295
44° 8'	403563.5333	30.863351	6963.3047	0.034791	2.840	
			31326.5087	0.303465	495.851	0.012295
44° 9'	405415.3343	30.863441	6965.3921	0.034781	2.839	
			31344.7166	0.303636	496.419	0.012295
44°10'	407267.1408	30.863532	6967.4790	0.034772	2.838	
			31362.9348	0.303808	496.988	0.012295
44°11'	409118.9527	30.863622	6969.5653	0.034762	2.837	
			31381.1632	0.303979	497.558	0.012295
44°12'	410970.7701	30.863713	6971.6510	0.034752	2.837	
			31399.4020	0.304151	498.129	0.012295
44°13'	412822.5928	30.863803	6973.7361	0.034742	2.836	
			31417.6510	0.304323	498.701	0.012295
44°14'	414674.4210	30.863893	6975.8207	0.034732	2.835	
			31435.9104	0.304495	499.274	0.012295
44°15'	416526.2546	30.863984	6977.9046	0.034722	2.834	
			31454.1801	0.304667	499.847	0.012295

44°16'	418378.0936	30.864074	6979.9879	0.034713	2.833	
			31472.4601	0.304840	500.421	0.012295
44°17'	420229.9381	30.864165	6982.0707	0.034703	2.833	
			31490.7505	0.305012	500.996	0.012295

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°18'	422081.7880	30.864255	6984.1529	0.034693	2.832	
			31509.0512	0.305185	501.572	0.012295
44°19'	423933.6433	30.864346	6986.2344	0.034683	2.831	
			31527.3624	0.305358	502.148	0.012295
44°20'	425785.5040	30.864436	6988.3154	0.034673	2.830	
			31545.6839	0.305532	502.726	0.012294
44°21'	427637.3702	30.864526	6990.3958	0.034663	2.830	
			31564.0158	0.305705	503.304	0.012294
44°22'	429489.2418	30.864617	6992.4756	0.034653	2.829	
			31582.3581	0.305879	503.883	0.012294
44°23'	431341.1188	30.864707	6994.5548	0.034644	2.828	
			31600.7108	0.306053	504.463	0.012294
44°24'	433193.0012	30.864798	6996.6334	0.034634	2.827	
			31619.0740	0.306227	505.044	0.012294
44°25'	435044.8891	30.864888	6998.7114	0.034624	2.826	
			31637.4476	0.306401	505.625	0.012294
44°26'	436896.7824	30.864979	7000.7889	0.034614	2.826	
			31655.8316	0.306576	506.208	0.012294
44°27'	438748.6811	30.865069	7002.8657	0.034604	2.825	
			31674.2262	0.306750	506.791	0.012294
44°28'	440600.5852	30.865159	7004.9419	0.034594	2.824	
			31692.6312	0.306925	507.375	0.012294
44°29'	442452.4948	30.865250	7007.0176	0.034584	2.823	
			31711.0467	0.307100	507.960	0.012294
44°30'	444304.4098	30.865340	7009.0926	0.034574	2.822	
			31729.4727	0.307276	508.546	0.012294
44°31'	446156.3302	30.865431	7011.1671	0.034565	2.822	
			31747.9093	0.307451	509.132	0.012294
44°32'	448008.2560	30.865521	7013.2410	0.034555	2.821	
			31766.3564	0.307627	509.720	0.012294
44°33'	449860.1873	30.865612	7015.3143	0.034545	2.820	
			31784.8140	0.307803	510.308	0.012294
44°34'	451712.1240	30.865702	7017.3869	0.034535	2.819	
			31803.2821	0.307979	510.897	0.012294
44°35'	453564.0661	30.865793	7019.4590	0.034525	2.818	
			31821.7609	0.308155	511.487	0.012294
44°36'	455416.0137	30.865883	7021.5305	0.034515	2.818	
			31840.2502	0.308332	512.078	0.012294
44°37'	457267.9667	30.865973	7023.6014	0.034505	2.817	
			31858.7501	0.308509	512.670	0.012294

44°38'	459119.9251	30.866064	7025.6717	0.034495	2.816	
			31877.2606	0.308685	513.262	0.012294
44°39'	460971.8889	30.866154	7027.7415	0.034485	2.815	
			31895.7818	0.308863	513.856	0.012294

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0012	-0.0013

Transverse Mercator projection tables

WYOMING Convergence, Scale Factor, (t-T)

Lat	(I)	diff.1"	(XII)/(XIV)	diff.1"	(XIII)/(XV)	/(XVI)
44°40'	462823.8582	30.866245	7029.8106	0.034475	2.814	
			31914.3135	0.309040	514.450	0.012293
44°41'	464675.8329	30.866335	7031.8791	0.034465	2.814	
			31932.8559	0.309218	515.045	0.012293
44°42'	466527.8130	30.866426	7033.9470	0.034456	2.813	
			31951.4090	0.309395	515.641	0.012293
44°43'	468379.7985	30.866516	7036.0144	0.034446	2.812	
			31969.9727	0.309573	516.238	0.012293
44°44'	470231.7895	30.866607	7038.0811	0.034436	2.811	
			31988.5471	0.309751	516.836	0.012293
44°45'	472083.7859	30.866697	7040.1472	0.034426	2.810	
			32007.1322	0.309930	517.434	0.012293
44°46'	473935.7877	30.866788	7042.2128	0.034416	2.810	
			32025.7280	0.310108	518.033	0.012293
44°47'	475787.7950	30.866878	7044.2777	0.034406	2.809	
			32044.3345	0.310287	518.634	0.012293
44°48'	477639.8077	30.866968	7046.3421	0.034396	2.808	
			32062.9517	0.310466	519.235	0.012293
44°49'	479491.8258	30.867059	7048.4059	0.034386	2.807	
			32081.5797	0.310645	519.837	0.012293
44°50'	481343.8493	30.867149	7050.4690	0.034376	2.806	
			32100.2184	0.310825	520.440	0.012293
44°51'	483195.8783	30.867240	7052.5316	0.034366	2.806	
			32118.8679	0.311005	521.044	0.012293
44°52'	485047.9127	30.867330	7054.5936	0.034356	2.805	
			32137.5282	0.311184	521.648	0.012293
44°53'	486899.9525	30.867421	7056.6549	0.034346	2.804	
			32156.1992	0.311364	522.254	0.012293
44°54'	488751.9977	30.867511	7058.7157	0.034336	2.803	
			32174.8811	0.311545	522.860	0.012293
44°55'	490604.0484	30.867602	7060.7759	0.034326	2.802	
			32193.5738	0.311725	523.467	0.012293
44°56'	492456.1045	30.867692	7062.8355	0.034316	2.801	
			32212.2773	0.311906	524.075	0.012293
44°57'	494308.1660	30.867783	7064.8944	0.034306	2.801	
			32230.9916	0.312087	524.685	0.012293
44°58'	496160.2330	30.867873	7066.9528	0.034296	2.800	
			32249.7168	0.312268	525.294	0.012293
44°59'	498012.3054	30.867964	7069.0106	0.034286	2.799	
			32268.4529	0.312449	525.905	0.012293

45° 0'	499864.3832	30.868054	7071.0678	0.034277	2.798		
			32287.1998	0.312631	526.517	0.012293	

Second difference corrections:

00"	10"	20"	30"	00"	10"	20"	30"
60"	50"	40"	30"	60"	50"	40"	30"
(I)0.0000	-0.0004	-0.0006	-0.0007	(XIV)0.0000	-0.0007	-0.0012	-0.0013