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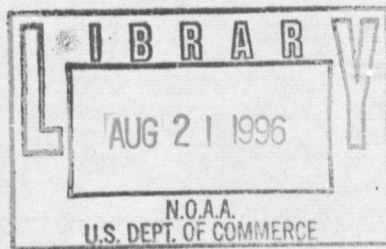
Coast and Geodetic Survey

Robert F. A. Studds, *Director*

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PLANE COORDINATE PROJECTION TABLES
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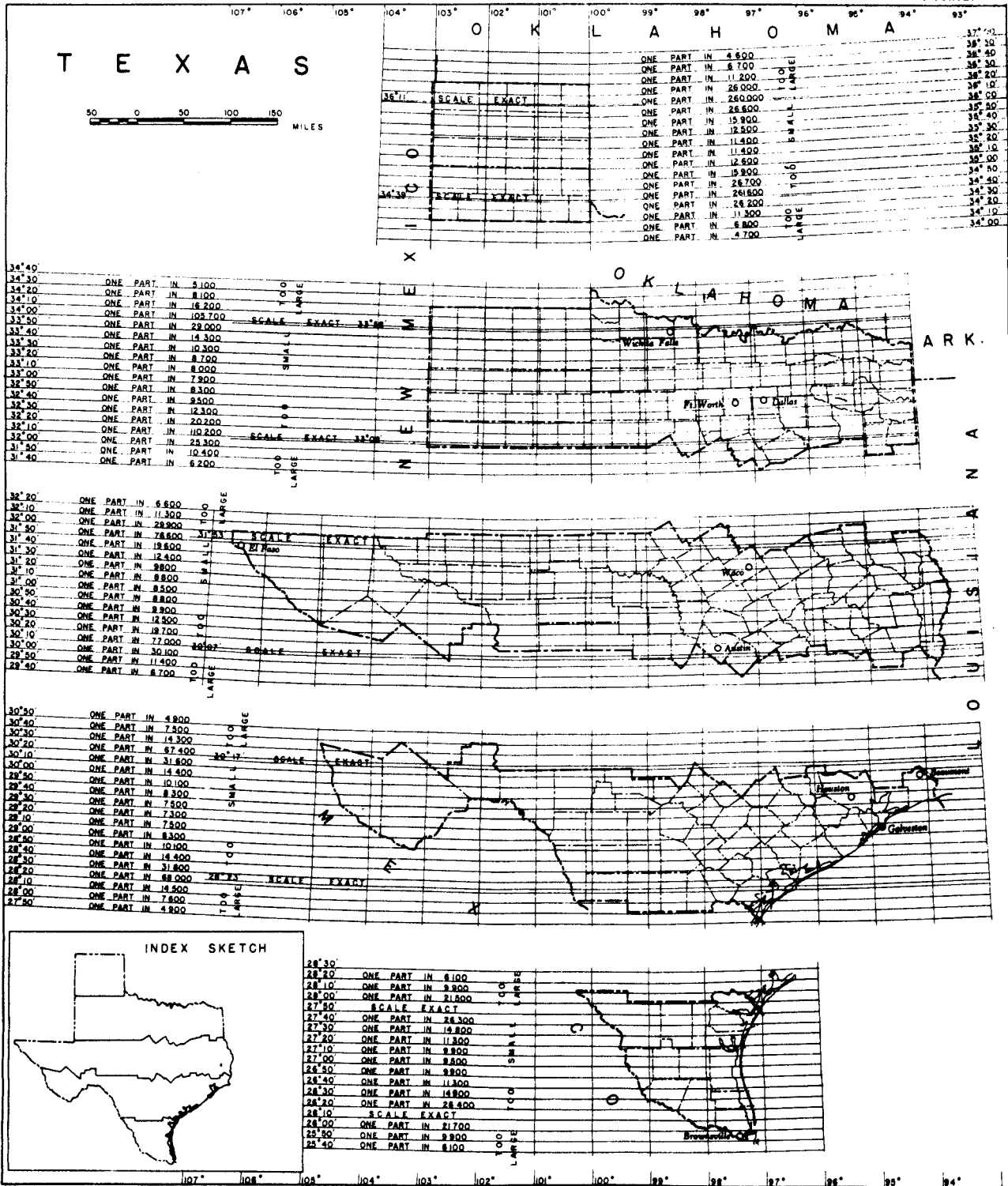
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U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



STATE PLANE-COORDINATE ZONES AND SCALE FACTORS

FEB 9 1951 X3669

Foreword

The plane coordinate system used in this State is based on the Lambert conformal conic projection with two standard parallels for each zone. The tables in this publication are to be used for the conversion of geographic positions to plane coordinates or plane coordinates to geographic positions. The constants of the projection are listed with the tables.

The methods of computation have been designed for machine calculation using tables of natural trigonometric functions. A table of these functions has been published by the Coast and Geodetic Survey to ten decimal places with ten-second intervals for 0° to 6° in Special Publication No. 246 and is sold for a nominal sum by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D.C.

The formulas and sample computations which follow show the general methods for computing either type of coordinates.

Plane Coordinates from Geographic Positions

$$x = R \sin \theta + C$$
$$y = R_b - R \cos \theta$$

Grid azimuth = geodetic azimuth - θ + second term

where

R is the radius for the latitude of the station,

R_b is a constant for a zone,

θ is the mapping angle for the longitude of the station,

and

C is the value of x assigned to the Central Meridian for a zone.

The second term for the reduction of geodetic to grid azimuths may be neglected for most work. However, for lines five miles or more in length, if the same degree of accuracy is desired as is obtained by geographic computations, this term should be evaluated and used.

$$\text{Second term} = \frac{x_2 - x_1}{2 \rho_0^2 \sin 1''} \left(y_1 - y_0 + \frac{y_2 - y_1}{3} \right)$$

Geographic Positions from Plane Coordinates

The formulas show the method of computing R and θ from which the latitude and longitude may be obtained.

$$x' = x - C$$

$$\tan \theta = x' \div (R_b - y)$$

$$R = (R_b - y) \div \cos \theta$$

$$\Delta \lambda = \theta \div l$$

$$\lambda = \text{Central Meridian} - \Delta \lambda$$

where

R , R_b , θ , and C are the same as previously defined

and

l is a constant for a zone.

PLANE COORDINATES ON LAMBERT PROJECTION

(Condensed form for calculating-machine computation)

$X = R \sin \theta + C$
 $C = 2,000,000.00$

$Y = R_b - R \cos \theta$
 $R_b = 29,972,959.94$

State-Zone Texas - North
Grid Az. = Geod. Az. - θ

Station	Latitude	R	$\sin \theta$	X
	Longitude	θ	$\cos \theta$	Y
1 Shelby 1934	34 43 39.249	29,708,153.74	0.01329 20100	1,605,118.92
	102 48 50.949	- 0 45 41.7546	0.99991 16574	267,430.70
	Grid azimuth to azimuth mark			195 59 19
2 Dial 1935	34 39 35.684	29,732,777.17	0.00959 12124	2,285,173.38
	100 33 06.303	+ 0 32 58.3599	0.99995 40033	241,550.38
	Grid azimuth to azimuth mark			100 42 42
3				
	Grid azimuth to azimuth mark			0 1 "
4				
	Grid azimuth to azimuth mark			0 1 "
5				
	Grid azimuth to azimuth mark			0 1 "
6				
	Grid azimuth to azimuth mark			0 1 "
7				
	Grid azimuth to azimuth mark			0 1 "
8				
	Grid azimuth to azimuth mark			0 1 "
9				
	Grid azimuth to azimuth mark			0 1 "
10				
	Grid azimuth to azimuth mark			0 1 "
11				
	Grid azimuth to azimuth mark			0 1 "
12				
	Grid azimuth to azimuth mark			0 1 "

GEODETIC POSITIONS FROM LAMBERT COORDINATES
(CALCULATING MACHINE COMPUTATION)

STATE - ZONE Texas - North $l = 0.57953 58654$

Station Robinson, 1935

C	- 2,000,000.00	R_b	29,972,959.94
X	2,357,989.58	Y	- 159,773.05
$X' = X - C$	+ 357,989.58	$R_b - Y$	29,813,186.89
$\tan \theta = X' \div (R_b - Y)$	+ 0.01200 77596	θ	+ 2476.6592
θ	+ 0 41' 16.6592"	$\Delta \lambda = \theta \div l$	+ 4273.522
$\cos \theta$	0.99992 79147	$\Delta \lambda$	+ 1 11' 13.522"
$R = (R_b - Y) \div \cos \theta$	29,815,336.14	Central Meridian	101 30 00.000
ϕ	34 25' 59.054"	$\lambda = \text{C.M.} - \Delta \lambda$	100 18' 46.478"

Station Burks, 1934

C	- 2,000,000.00	R_b	29,972,959.94
X	1,676,343.84	Y	- 306,977.60
$X' = X - C$	- 323,656.16	$R_b - Y$	29,665,982.34
$\tan \theta = X' \div (R_b - Y)$	- 0.01091 00099	θ	- 2250.2618
θ	- 0 37' 30.2618"	$\Delta \lambda = \theta \div l$	- 3882.869
$\cos \theta$	0.99994 04911	$\Delta \lambda$	- 1 04' 42.869"
$R = (R_b - Y) \div \cos \theta$	29,667,747.84	Central Meridian	101 30 00.000
ϕ	34 50' 18.929"	$\lambda = \text{C.M.} - \Delta \lambda$	102 34' 42.869"

Station

C	-	R_b	
X		Y	-
$X' = X - C$		$R_b - Y$	
$\tan \theta = X' \div (R_b - Y)$		θ	"
θ	"	$\Delta \lambda = \theta \div l$	"
$\cos \theta$		$\Delta \lambda$	"
$R = (R_b - Y) \div \cos \theta$		Central Meridian	"
ϕ	"	$\lambda = \text{C.M.} - \Delta \lambda$	"

Station

C	-	R_b	
X		Y	-
$X' = X - C$		$R_b - Y$	
$\tan \theta = X' \div (R_b - Y)$		θ	"
θ	"	$\Delta \lambda = \theta \div l$	"
$\cos \theta$		$\Delta \lambda$	"
$R = (R_b - Y) \div \cos \theta$		Central Meridian	"
ϕ	"	$\lambda = \text{C.M.} - \Delta \lambda$	"

Constants for Texas zones

Constant	Zone	
	North	North Central
C	2,000,000.00	2,000,000.00
Central Meridian	101° 30' 00!000	97° 30' 00!000
R _b	29,972,959.94	32,691,654.54
y ₀	516,052.65	503,844.96
l	0.57953 58654	0.54539 44146
$\frac{1}{2\rho_0^2 \sin 1''}$	2.360 x 10 ⁻¹⁰	2.362 x 10 ⁻¹⁰
log $\frac{1}{2\rho_0^2 \sin 1''}$	0.373 0025 - 10	0.373 2288 - 10
log l	9.76308 03181 - 10	9.73671 06860 - 10
log K	7.63475 78652	7.65172 89823

Constant	Zone
	Central
C	2,000,000.00
Central Meridian	100° 20' 00!000
R _b	35,337,121.23
y ₀	485,417.77
l	0.51505 88857
$\frac{1}{2\rho_0^2 \sin 1''}$	2.363 x 10 ⁻¹⁰
log $\frac{1}{2\rho_0^2 \sin 1''}$	0.373 4182 - 10
log l	9.71185 68921 - 10
log K	7.66885 39642

Constants for Texas zones - continued

Constant	Zone	
	South Central	South
C	2,000,000.00	2,000,000.00
Central Meridian	99° 00' 00" 000	98° 30' 00" 000
R_b	37,807,440.38	41,576,762.39
y_0	545,931.18	485,012.85
l	0.48991 26408	0.45400 68519
$\frac{1}{2\rho_0^2 \sin 1''}$	2.364×10^{-10}	2.365×10^{-10}
$\log \frac{1}{2\rho_0^2 \sin 1''}$	0.373 5671 - 10	0.373 7666 - 10
$\log l$	9.69011 86453 - 10	9.65706 24073 - 10
$\log K$	7.68458 56608	7.70971 09848

Lambert Projection for Texas (North)

Table I

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
34° 00'	29,972,959.94	0	101.10683	+928.7	1.0002138
01	29,966,893.53	6,066.41	101.10633	+898.1	1.0002068
02	29,960,827.15	12,132.79	101.10583	+867.8	1.0001998
03	29,954,760.80	18,199.14	101.10550	+837.8	1.0001929
04	29,948,694.47	24,265.47	101.10500	+808.3	1.0001861
05	29,942,628.17	30,331.77	101.10467	+779.0	1.0001794
34° 06'	29,936,561.89	36,398.05	101.10433	+750.2	1.0001727
07	29,930,495.63	42,464.31	101.10400	+721.7	1.0001662
08	29,924,429.39	48,530.55	101.10350	+693.5	1.0001597
09	29,918,363.18	54,596.76	101.10317	+665.8	1.0001533
10	29,912,296.99	60,662.95	101.10283	+638.3	1.0001470
34° 11'	29,906,230.82	66,729.12	101.10250	+611.3	1.0001408
12	29,900,164.67	72,795.27	101.10217	+584.6	1.0001346
13	29,894,098.54	78,861.40	101.10183	+558.2	1.0001285
14	29,888,032.43	84,927.51	101.10150	+532.2	1.0001225
15	29,881,966.34	90,993.60	101.10100	+506.6	1.0001166
34° 16'	29,875,900.28	97,059.66	101.10083	+481.4	1.0001108
17	29,869,834.23	103,125.71	101.10067	+456.5	1.0001051
18	29,863,768.19	109,191.75	101.10033	+431.9	1.0000994
19	29,857,702.17	115,257.77	101.10000	+407.7	1.0000939
20	29,851,636.17	121,323.77	101.09967	+383.9	1.0000884
34° 21'	29,845,570.19	127,389.75	101.09950	+360.5	1.0000830
22	29,839,504.22	133,455.72	101.09917	+337.4	1.0000777
23	29,833,438.27	139,521.67	101.09900	+314.6	1.0000724
24	29,827,372.33	145,587.61	101.09867	+292.2	1.0000673
25	29,821,306.41	151,653.53	101.09850	+270.2	1.0000622
34° 26'	29,815,240.50	157,719.44	101.09833	+248.6	1.0000572
27	29,809,174.60	163,785.34	101.09800	+227.3	1.0000523
28	29,803,108.72	169,851.22	101.09783	+206.4	1.0000475
29	29,797,042.85	175,917.09	101.09767	+185.8	1.0000428
30	29,790,976.99	181,982.95	101.09750	+165.6	1.0000381
34° 31'	29,784,911.14	188,048.80	101.09733	+145.7	1.0000335
32	29,778,845.30	194,114.64	101.09717	+126.2	1.0000291
33	29,772,779.47	200,180.47	101.09683	+107.1	1.0000247
34	29,766,713.66	206,246.28	101.09683	+ 88.3	1.0000203
35	29,760,647.85	212,312.09	101.09667	+ 69.9	1.0000161

Lambert Projection for Texas (North)

Table I (Cont'd)

Lat.	R (feet)	y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
34° 36'	29,754,582.05	218,377.89	101.09667	+51.9	1.0000120
37	29,748,516.25	224,443.69	101.09633	+34.2	1.0000079
38	29,742,450.47	230,509.47	101.09633	+16.9	1.0000039
39	29,736,384.69	236,575.25	101.09617	0.0	1.0000000
40	29,730,318.92	242,641.02	101.09600	-16.6	0.9999962
34° 41'	29,724,253.16	248,706.78	101.09600	-32.9	0.9999924
42	29,718,187.40	254,772.54	101.09583	-48.7	0.9999888
43	29,712,121.65	260,838.29	101.09583	-64.2	0.9999852
44	29,706,055.90	266,904.04	101.09583	-79.4	0.9999817
45	29,699,990.15	272,969.79	101.09567	-94.2	0.9999783
34° 46'	29,693,924.41	279,035.53	101.09567	-108.6	0.9999750
47	29,687,858.67	285,101.27	101.09567	-122.6	0.9999718
48	29,681,792.93	291,167.01	101.09550	-136.3	0.9999686
49	29,675,727.20	297,232.74	101.09550	-149.6	0.9999656
50	29,669,661.47	303,298.47	101.09550	-162.6	0.9999626
34° 51'	29,663,595.74	309,364.20	101.09550	-175.2	0.9999597
52	29,657,530.01	315,429.93	101.09567	-187.4	0.9999568
53	29,651,464.27	321,495.67	101.09550	-199.3	0.9999541
54	29,645,398.54	327,561.40	101.09550	-210.8	0.9999515
55	29,639,332.81	333,627.13	101.09550	-222.0	0.9999489
34° 56'	29,633,267.08	339,692.86	101.09567	-232.8	0.9999464
57	29,627,201.34	345,758.60	101.09567	-243.2	0.9999440
58	29,621,135.60	351,824.34	101.09567	-253.2	0.9999417
59	29,615,069.86	357,890.08	101.09567	-262.9	0.9999395
35° 00'	29,609,004.12	363,955.82	101.09583	-272.3	0.9999373
35° 01'	29,602,938.37	370,021.57	101.09600	-281.2	0.9999353
02	29,596,872.61	376,087.33	101.09600	-289.8	0.9999333
03	29,590,806.85	382,153.09	101.09600	-298.1	0.9999314
04	29,584,741.09	388,218.85	101.09617	-306.0	0.9999295
05	29,578,675.32	394,284.62	101.09633	-313.5	0.9999278
35° 06'	29,572,609.54	400,350.40	101.09633	-320.6	0.9999262
07	29,566,543.76	406,416.18	101.09667	-327.4	0.9999246
08	29,560,477.96	412,481.98	101.09667	-333.8	0.9999231
09	29,554,412.16	418,547.78	101.09683	-339.9	0.9999217
10	29,548,346.35	424,613.59	101.09683	-345.5	0.9999204

Lambert Projection for Texas (North)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
35° 11'	29,542,280.54	430,679.40	101.09717	-350.9	0.9999192
12	29,536,214.71	436,745.23	101.09733	-355.8	0.9999181
13	29,530,148.87	442,811.07	101.09750	-360.4	0.9999170
14	29,524,083.02	448,876.92	101.09767	-364.7	0.9999160
15	29,518,017.16	454,942.78	101.09783	-368.5	0.9999151
35° 16'	29,511,951.29	461,008.65	101.09800	-372.0	0.9999143
17	29,505,885.41	467,074.53	101.09833	-375.1	0.9999136
18	29,499,820.51	473,139.43	101.09850	-377.9	0.9999130
19	29,493,753.60	479,206.34	101.09883	-380.3	0.9999124
20	29,487,687.67	485,272.27	101.09900	-382.4	0.9999119
35° 21'	29,481,621.73	491,338.21	101.09917	-384.0	0.9999116
22	29,475,555.78	497,404.16	101.09950	-385.3	0.9999113
23	29,469,489.81	503,470.13	101.09983	-386.3	0.9999111
24	29,463,423.82	509,536.12	101.10000	-386.9	0.9999109
25	29,457,357.82	515,602.12	101.10033	-387.1	0.9999109
35° 26'	29,451,291.80	521,668.14	101.10050	-386.9	0.9999109
27	29,445,225.77	527,734.17	101.10083	-386.4	0.9999110
28	29,439,159.72	533,800.22	101.10133	-385.5	0.9999112
29	29,433,093.64	539,866.30	101.10150	-384.2	0.9999115
30	29,427,027.55	545,932.39	101.10183	-382.6	0.9999119
35° 31'	29,420,961.44	551,998.50	101.10217	-380.6	0.9999124
32	29,414,895.31	558,064.63	101.10250	-378.3	0.9999129
33	29,408,829.16	564,130.78	101.10283	-375.6	0.9999135
34	29,402,762.99	570,196.95	101.10333	-372.5	0.9999142
35	29,396,696.79	576,263.15	101.10350	-369.0	0.9999150
35° 36'	29,390,630.58	582,329.36	101.10400	-365.2	0.9999159
37	29,384,564.34	588,395.60	101.10433	-361.0	0.9999169
38	29,378,498.08	594,461.86	101.10483	-356.5	0.9999179
39	29,372,431.79	600,528.15	101.10517	-351.6	0.9999190
40	29,366,365.48	606,594.46	101.10550	-346.3	0.9999203
35° 41'	29,360,299.15	612,660.79	101.10600	-340.6	0.9999216
42	29,354,232.79	618,727.15	101.10633	-334.6	0.9999230
43	29,348,166.41	624,793.53	101.10683	-328.2	0.9999244
44	29,342,100.00	630,859.94	101.10733	-321.5	0.9999260
45	29,336,033.56	636,926.38	101.10783	-314.3	0.9999276

Lambert Projection for Texas (North)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
35° 46'	29,329,967.09	642,992.85	101.10817	-306.8	0.9999294
47	29,323,900.60	649,059.34	101.10867	-299.0	0.9999312
48	29,317,834.08	655,125.86	101.10917	-290.8	0.9999330
49	29,311,767.53	661,192.41	101.10967	-282.2	0.9999350
50	29,305,700.95	667,258.99	101.11017	-273.2	0.9999371
35° 51'	29,299,634.34	673,325.60	101.11067	-263.9	0.9999392
52	29,293,567.70	679,392.24	101.11117	-254.2	0.9999415
53	29,287,501.03	685,458.91	101.11167	-244.1	0.9999438
54	29,281,434.33	691,525.61	101.11217	-233.7	0.9999462
55	29,275,367.60	697,592.34	101.11283	-222.9	0.9999487
35° 56'	29,269,300.83	703,659.11	101.11333	-211.7	0.9999513
57	29,263,234.03	709,725.91	101.11383	-200.2	0.9999539
58	29,257,167.20	715,792.74	101.11450	-188.3	0.9999566
59	29,251,100.33	721,859.61	101.11500	-176.0	0.9999595
36° 00'	29,245,033.43	727,926.51	101.11550	-163.4	0.9999624
36° 01'	29,238,966.50	733,993.44	101.11617	-150.4	0.9999654
02	29,232,899.53	740,060.41	101.11683	-137.0	0.9999685
03	29,226,832.52	746,127.42	101.11733	-123.3	0.9999716
04	29,220,765.48	752,194.46	101.11800	-109.1	0.9999749
05	29,214,698.40	758,261.54	101.11867	-94.7	0.9999782
36° 06'	29,208,631.28	764,328.66	101.11933	-79.8	0.9999816
07	29,202,564.12	770,395.82	101.11983	-64.6	0.9999851
08	29,196,496.93	776,463.01	101.12067	-49.0	0.9999887
09	29,190,429.69	782,530.25	101.12117	-33.0	0.9999924
10	29,184,362.42	788,597.52	101.12200	-16.7	0.9999962
36° 11'	29,178,295.10	794,664.84	101.12250	0.0	1.0000000
12	29,172,227.75	800,732.19	101.12333	+17.1	1.0000039
13	29,166,160.35	806,799.59	101.12383	+34.5	1.0000079
14	29,160,092.92	812,867.02	101.12467	+52.3	1.0000120
15	29,154,025.44	818,934.50	101.12550	+70.5	1.0000162
36° 16'	29,147,957.91	825,002.03	101.12600	+89.0	1.0000205
17	29,141,890.35	831,069.59	101.12683	+108.0	1.0000249
18	29,135,822.74	837,137.20	101.12767	+127.2	1.0000293
19	29,129,755.08	843,204.86	101.12833	+146.9	1.0000338
20	29,123,687.38	849,272.56	101.12900	+166.9	1.0000384

Lambert Projection for Texas (North)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
36° 21'	29,117,619.64	855,340.30	101.12983	+187.3	1.0000431
22	29,111,551.85	861,408.09	101.13067	+208.1	1.0000479
23	29,105,484.01	867,475.93	101.13133	+229.2	1.0000528
24	29,099,416.13	873,543.81	101.13217	+250.7	1.0000577
25	29,093,348.20	879,611.74	101.13300	+272.6	1.0000628
36° 26'	29,087,280.22	885,679.72	101.13383	+294.9	1.0000679
27	29,081,212.19	891,747.75	101.13467	+317.5	1.0000731
28	29,075,144.11	897,815.83	101.13533	+340.5	1.0000784
29	29,069,075.99	903,883.95	101.13633	+363.8	1.0000838
30	29,063,007.81	909,952.13	101.13717	+387.6	1.0000892
36° 31'	29,056,939.58	916,020.36	101.13783	+411.7	1.0000948
32	29,050,871.31	922,088.63	101.13883	+436.2	1.0001004
33	29,044,802.98	928,156.96	101.13967	+461.0	1.0001061
34	29,038,734.60	934,225.34	101.14067	+486.2	1.0001120
35	29,032,666.16	940,293.78	101.14150	+511.8	1.0001178
36° 36'	29,026,597.67	946,362.27	101.14233	+537.8	1.0001238
37	29,020,529.13	952,430.81	101.14317	+564.1	1.0001299
38	29,014,460.54	958,499.40	101.14417	+590.8	1.0001360
39	29,008,391.89	964,568.05	101.14517	+617.9	1.0001423
40	29,002,323.18	970,636.76	101.14600	+645.3	1.0001486
36° 41'	28,996,254.42	976,705.52	101.14700	+673.1	1.0001550
42	28,990,185.60	982,774.34	101.14783	+701.3	1.0001615
43	28,984,116.73	988,843.21	101.14883	+729.9	1.0001681
44	28,978,047.80	994,912.14	101.15000	+758.8	1.0001747
45	28,971,978.80	1,000,981.14	101.15067	+788.1	1.0001815
36° 46'	28,965,909.76	1,007,050.18	101.15183	+817.8	1.0001883
47	28,959,840.65	1,013,119.29	101.15283	+847.8	1.0001952
48	28,953,771.48	1,019,188.46	101.15383	+878.3	1.0002022
49	28,947,702.25	1,025,257.69	101.15467	+909.0	1.0002093
50	28,941,632.97	1,031,326.97		+940.2	1.0002165

Lambert Projection for Texas (North)

Table II

1" of Long. = 0^h57953587 of θ

Long.	θ			Long.	θ			Long.	θ		
99° 30'	+1° 09'	32	6582	100° 06'	+0° 48'	40	8608	100° 41'	+0° 28'	23	8354
31	+1 08	57	8861	07	+0 48	06	0886	42	+0 27	49	0633
32	+1 08	23	1139	08	+0 47	31	3165	43	+0 27	14	2911
33	+1 07	48	3418	09	+0 46	56	5443	44	+0 26	39	5190
34	+1 07	13	5696	10	+0 46	21	7722	45	+0 26	04	7468
35	+1 06	38	7975								
99° 36'	+1 06	04	0253	100° 11'	+0 45	47	0000	100° 46'	+0 25	29	9747
37	+1 05	29	2532	12	+0 45	12	2278	47	+0 24	55	2025
38	+1 04	54	4810	13	+0 44	37	4557	48	+0 24	20	4304
39	+1 04	19	7089	14	+0 44	02	6835	49	+0 23	45	6582
40	+1 03	44	9367	15	+0 43	27	9114	50	+0 23	10	8861
99° 41'	+1 03	10	1646	100° 16'	+0 42	53	1392	100° 51'	+0 22	36	1139
42	+1 02	35	3924	17	+0 42	18	3671	52	+0 22	01	3418
43	+1 02	00	6203	18	+0 41	43	5949	53	+0 21	26	5696
44	+1 01	25	8481	19	+0 41	08	8228	54	+0 20	51	7975
45	+1 00	51	0760	20	+0 40	34	0506	55	+0 20	17	0253
99° 46'	+1 00	16	3038	100° 21'	+0 39	59	2785	100° 56'	+0 19	42	2532
47	+0 59	41	5316	22	+0 39	24	5063	57	+0 19	07	4810
48	+0 59	06	7595	23	+0 38	49	7342	58	+0 18	32	7089
49	+0 58	31	9873	24	+0 38	14	9620	59	+0 17	57	9367
50	+0 57	57	2152	25	+0 37	40	1899	101° 00'	+0 17	23	1646
99° 51'	+0 57	22	4430	100° 26'	+0 37	05	4177	101° 01'	+0 16	48	3924
52	+0 56	47	6709	27	+0 36	30	6456	02	+0 16	13	6203
53	+0 56	12	8987	28	+0 35	55	8734	03	+0 15	38	8481
54	+0 55	38	1266	29	+0 35	21	1013	04	+0 15	04	0759
55	+0 55	03	3544	30	+0 34	46	3291	05	+0 14	29	3038
99° 56'	+0 54	28	5823	100° 31'	+0 34	11	5570	101° 06'	+0 13	54	5316
57	+0 53	53	8101	32	+0 33	36	7848	07	+0 13	19	7595
58	+0 53	19	0380	33	+0 33	02	0127	08	+0 12	44	9873
59	+0 52	44	2658	34	+0 32	27	2405	09	+0 12	10	2152
100° 00'	+0 52	09	4937	35	+0 31	52	4684	10	+0 11	35	4430
100° 01'	+0 51	34	7215	100° 36'	+0 31	17	6962	101° 11'	+0 11	00	6709
02	+0 50	59	9494	37	+0 30	42	9241	12	+0 10	25	8987
03	+0 50	25	1772	38	+0 30	08	1519	13	+0 09	51	1266
04	+0 49	50	4051	39	+0 29	33	3797	14	+0 09	16	3544
05	+0 49	15	6329	40	+0 28	58	6076	15	+0 08	41	5823

Lambert Projection for Texas (North)

Table II (Cont'd)

1" of Long. = 0!57953587 of θ

Long.	θ	Long.	θ	Long.	θ
101° 16'	+0° 08' 06!8101	101° 51'	-0° 12' 10!2152	102° 26'	-0° 32' 27!2405
17	+0 07 32.0380	52	-0 12 44.9873	27	-0 33 02.0127
18	+0 06 57.2658	53	-0 13 19.7595	28	-0 33 36.7848
19	+0 06 22.4937	54	-0 13 54.5316	29	-0 34 11.5570
20	+0 05 47.7215	55	-0 14 29.3038	30	-0 34 46.3291
101° 21'	+0 05 12.9494	101° 56'	-0 15 04.0759	102° 31'	-0 35 21.1013
22	+0 04 38.1772	57	-0 15 38.8481	32	-0 35 55.8734
23	+0 04 03.4051	58	-0 16 13.6203	33	-0 36 30.6456
24	+0 03 28.6329	59	-0 16 48.3924	34	-0 37 05.4177
25	+0 02 53.8608	102° 00'	-0 17 23.1646	35	-0 37 40.1899
101° 26'	+0 02 19.0886	102° 01'	-0 17 57.9367	102° 36'	-0 38 14.9620
27	+0 01 44.3165	02	-0 18 32.7089	37	-0 38 49.7342
28	+0 01 09.5443	03	-0 19 07.4810	38	-0 39 24.5063
29	+0 00 34.7722	04	-0 19 42.2532	39	-0 39 59.2785
30	0 00 00.0000	05	-0 20 17.0253	40	-0 40 34.0506
101° 31'	-0 00 34.7722	102° 06'	-0 20 51.7975	102° 41'	-0 41 08.8228
32	-0 01 09.5443	07	-0 21 26.5696	42	-0 41 43.5949
33	-0 01 44.3165	08	-0 22 01.3418	43	-0 42 18.3671
34	-0 02 19.0886	09	-0 22 36.1139	44	-0 42 53.1392
35	-0 02 53.8608	10	-0 23 10.8861	45	-0 43 27.9114
101° 36'	-0 03 28.6329	102° 11'	-0 23 45.6582	102° 46'	-0 44 02.6835
37	-0 04 03.4051	12	-0 24 20.4304	47	-0 44 37.4557
38	-0 04 38.1772	13	-0 24 55.2025	48	-0 45 12.2278
39	-0 05 12.9494	14	-0 25 29.9747	49	-0 45 47.0000
40	-0 05 47.7215	15	-0 26 04.7468	50	-0 46 21.7722
101° 41'	-0 06 22.4937	102° 16'	-0 26 39.5190	102° 51'	-0 46 56.5443
42	-0 06 57.2658	17	-0 27 14.2911	52	-0 47 31.3165
43	-0 07 32.0380	18	-0 27 49.0633	53	-0 48 06.0886
44	-0 08 06.8101	19	-0 28 23.8354	54	-0 48 40.8608
45	-0 08 41.5823	20	-0 28 58.6076	55	-0 49 15.6329
101° 46'	-0 09 16.3544	102° 21'	-0 29 33.3797	102° 56'	-0 49 50.4051
47	-0 09 51.1266	22	-0 30 08.1519	57	-0 50 25.1772
48	-0 10 25.8987	23	-0 30 42.9241	58	-0 50 59.9494
49	-0 11 00.6709	24	-0 31 17.6962	59	-0 51 34.7215
50	-0 11 35.4430	25	-0 31 52.4684	103° 00'	-0 52 09.4937

Lambert Projection for Texas (North)

Table II (Cont'd)

1" of Long. = 0!57953587 of θ

Long.	θ		
103° 01'	-0° 52'	44!	2658
02	-0 53	19.0380	
03	-0 53	53.8101	
04	-0 54	28.5823	
05	-0 55	03.3544	
103° 06'	-0 55	38.1266	
07	-0 56	12.8987	
08	-0 56	47.6709	
09	-0 57	22.4430	
10	-0 57	57.2152	
103° 11'	-0 58	31.9873	
12	-0 59	06.7595	
13	-0 59	41.5316	
14	-1 00	16.3038	
15	-1 00	51.0760	
103° 16'	-1 01	25.8481	
17	-1 02	00.6203	
18	-1 02	35.3924	
19	-1 03	10.1646	
20	-1 03	44.9367	
103° 21'	-1 04	19.7089	
22	-1 04	54.4810	
23	-1 05	29.2532	
24	-1 06	04.0253	
25	-1 06	38.7975	
103° 26'	-1 07	13.5696	
27	-1 07	48.3418	
28	-1 08	23.1139	
29	-1 08	57.8861	
30	-1 09	32.6582	

Lambert Projection for Texas (North Central)

Table I

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
31° 40'	32,691,654.54	0	101.06333	+702.6	1.0001618
41	32,685,590.74	6,063.80	101.06283	+672.7	1.0001549
42	32,679,526.97	12,127.57	101.06250	+643.1	1.0001481
43	32,673,463.22	18,191.32	101.06217	+613.8	1.0001413
44	32,667,399.49	24,255.05	101.06167	+584.9	1.0001347
45	32,661,335.79	30,318.75	101.06133	+556.4	1.0001281
31° 46'	32,655,272.11	36,382.43	101.06100	+528.3	1.0001216
47	32,649,208.45	42,446.09	101.06050	+500.5	1.0001152
48	32,643,144.82	48,509.72	101.06017	+473.0	1.0001089
49	32,637,081.21	54,573.33	101.05983	+445.9	1.0001027
50	32,631,017.62	60,636.92	101.05950	+419.2	1.0000965
31° 51'	32,624,954.05	66,700.49	101.05917	+392.8	1.0000904
52	32,618,890.50	72,764.04	101.05867	+366.8	1.0000845
53	32,612,826.98	78,827.56	101.05850	+341.2	1.0000786
54	32,606,763.47	84,891.07	101.05817	+315.9	1.0000727
55	32,600,699.98	90,954.56	101.05783	+291.0	1.0000670
31° 56'	32,594,636.51	97,018.03	101.05767	+266.5	1.0000614
57	32,588,573.05	103,081.49	101.05717	+242.3	1.0000558
58	32,582,509.62	109,144.92	101.05700	+218.4	1.0000503
59	32,576,446.20	115,208.34	101.05683	+194.9	1.0000449
32° 00'	32,570,382.79	121,271.75	101.05633	+171.8	1.0000396
32° 01'	32,564,319.41	127,335.13	101.05617	+149.1	1.0000343
02	32,558,256.04	133,398.50	101.05600	+126.7	1.0000292
03	32,552,192.68	139,461.86	101.05567	+104.7	1.0000241
04	32,546,129.34	145,525.20	101.05550	+83.0	1.0000191
05	32,540,066.01	151,588.53	101.05533	+61.7	1.0000142
32° 06'	32,534,002.69	157,651.85	101.05500	+40.7	1.0000094
07	32,527,939.39	163,715.15	101.05483	+20.2	1.0000047
08	32,521,876.10	169,778.44	101.05467	0	1.0000000
09	32,515,812.82	175,841.72	101.05433	-19.9	0.9999954
10	32,509,749.56	181,904.98	101.05433	-39.4	0.9999909
32° 11'	32,503,686.30	187,968.24	101.05400	-58.6	0.9999865
12	32,497,623.06	194,031.48	101.05400	-77.3	0.9999822
13	32,491,559.82	200,094.72	101.05383	-95.8	0.9999779
14	32,485,496.59	206,157.95	101.05367	-113.8	0.9999738
15	32,479,433.37	212,221.17	101.05350	-131.5	0.9999697

Lambert Projection for Texas (North Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
32° 16'	32,473,370.16	218,284.38	101.05333	-148.8	0.9999657
17	32,467,306.96	224,347.58	101.05317	-165.8	0.9999618
18	32,461,243.77	230,410.77	101.05317	-182.4	0.9999580
19	32,455,180.58	236,473.96	101.05300	-198.6	0.9999543
20	32,449,117.40	242,537.14	101.05300	-214.5	0.9999506
32° 21'	32,443,054.22	248,600.32	101.05283	-230.0	0.9999470
22	32,436,991.05	254,663.49	101.05267	-245.2	0.9999435
23	32,430,927.89	260,726.65	101.05283	-260.0	0.9999401
24	32,424,864.72	266,789.82	101.05250	-274.4	0.9999368
25	32,418,801.57	272,852.97	101.05267	-288.4	0.9999336
32° 26'	32,412,738.41	278,916.13	101.05250	-302.1	0.9999304
27	32,406,675.26	284,979.28	101.05250	-315.5	0.9999274
28	32,400,612.11	291,042.43	101.05250	-328.5	0.9999244
29	32,394,548.96	297,105.58	101.05250	-341.1	0.9999215
30	32,388,485.81	303,168.73	101.05250	-353.3	0.9999186
32° 31'	32,382,422.66	309,231.88	101.05233	-365.2	0.9999159
32	32,376,359.52	315,295.02	101.05250	-376.7	0.9999133
33	32,370,296.37	321,358.17	101.05250	-387.9	0.9999107
34	32,364,233.22	327,421.32	101.05250	-398.7	0.9999082
35	32,358,170.07	333,484.47	101.05250	-409.1	0.9999058
32° 36'	32,352,106.92	339,547.62	101.05267	-419.2	0.9999035
37	32,346,043.76	345,610.78	101.05250	-428.9	0.9999012
38	32,339,980.61	351,673.93	101.05283	-438.2	0.9998992
39	32,333,917.44	357,737.10	101.05267	-447.2	0.9998970
40	32,327,854.28	363,800.26	101.05283	-455.8	0.9998950
32° 41'	32,321,791.11	369,863.43	101.05283	-464.0	0.9998932
42	32,315,727.94	375,926.60	101.05300	-471.9	0.9998913
43	32,309,664.76	381,989.78	101.05317	-479.4	0.9998896
44	32,303,601.57	388,052.97	101.05317	-486.6	0.9998880
45	32,297,538.38	394,116.16	101.05333	-493.4	0.9998864
32° 46'	32,291,475.18	400,179.36	101.05350	-499.9	0.9998849
47	32,285,411.97	406,242.57	101.05367	-505.9	0.9998835
48	32,279,348.75	412,305.79	101.05367	-511.6	0.9998822
49	32,273,285.53	418,369.01	101.05400	-516.9	0.9998810
50	32,267,222.29	424,432.25	101.05400	-521.9	0.9998798

Lambert Projection for Texas (North Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
32° 51'	32,261,159.05	430,495.49	101.05417	-526.5	0.9998788
52	32,255,095.80	436,558.74	101.05450	-530.7	0.9998778
53	32,249,032.53	442,622.01	101.05450	-534.6	0.9998769
54	32,242,969.26	448,685.28	101.05483	-538.1	0.9998761
55	32,236,905.97	454,748.57	101.05500	-541.2	0.9998754
32° 56'	32,230,842.67	460,811.87	101.05517	-544.0	0.9998747
57	32,224,779.36	466,875.18	101.05533	-546.4	0.9998742
58	32,218,716.04	472,938.50	101.05567	-548.5	0.9998737
59	32,212,652.70	479,001.84	101.05600	-550.1	0.9998733
33° 00'	32,206,589.34	485,065.20	101.05617	-551.4	0.9998730
33° 01'	32,200,525.97	491,128.57	101.05633	-552.4	0.9998728
02	32,194,462.59	497,191.95	101.05667	-553.0	0.9998727
03	32,188,399.19	503,255.35	101.05683	-553.2	0.9998726
04	32,182,335.78	509,318.76	101.05733	-553.0	0.9998727
05	32,176,272.34	515,382.20	101.05750	-552.5	0.9998728
33° 06'	32,170,208.89	521,445.65	101.05767	-551.7	0.9998730
07	32,164,145.43	527,509.11	101.05817	-550.4	0.9998733
08	32,158,081.94	533,572.60	101.05850	-548.8	0.9998736
09	32,152,018.43	539,636.11	101.05867	-546.8	0.9998741
10	32,145,954.91	545,699.63	101.05900	-544.5	0.9998746
33° 11'	32,139,891.37	551,763.17	101.05950	-541.8	0.9998752
12	32,133,827.80	557,826.74	101.05983	-538.7	0.9998760
13	32,127,764.21	563,890.33	101.06000	-535.3	0.9998767
14	32,121,700.61	569,953.93	101.06050	-531.4	0.9998776
15	32,115,636.98	576,017.56	101.06083	-527.3	0.9998786
33° 16'	32,109,573.33	582,081.21	101.06133	-522.7	0.9998796
17	32,103,509.65	588,144.89	101.06167	-517.8	0.9998808
18	32,097,445.95	594,208.59	101.06200	-512.6	0.9998820
19	32,091,382.23	600,272.31	101.06250	-506.9	0.9998833
20	32,085,318.48	606,336.06	101.06283	-500.9	0.9998847
33° 21'	32,079,254.71	612,399.83	101.06333	-494.5	0.9998861
22	32,073,190.91	618,463.63	101.06367	-487.8	0.9998877
23	32,067,127.09	624,527.45	101.06433	-480.7	0.9998893
24	32,061,063.23	630,591.31	101.06450	-473.2	0.9998910
25	32,054,999.36	636,655.18	101.06517	-465.4	0.9998928

Lambert Projection for Texas (North Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
33° 26'	32,048,935.45	642,719.09	101.06550	-457.1	0.9998947
27	32,042,871.52	648,783.02	101.06617	-448.6	0.9998967
28	32,036,807.55	654,846.99	101.06650	-439.6	0.9998988
29	32,030,743.56	660,910.98	101.06700	-430.3	0.9999009
30	32,024,679.54	666,975.00	101.06750	-420.6	0.9999032
33° 31'	32,018,615.49	673,039.05	101.06817	-410.6	0.9999055
32	32,012,551.40	679,103.14	101.06850	-400.2	0.9999079
33	32,006,487.29	685,167.25	101.06917	-389.4	0.9999103
34	32,000,423.14	691,231.40	101.06967	-378.2	0.9999129
35	31,994,358.96	697,295.58	101.07017	-366.7	0.9999156
33° 36'	31,988,294.75	703,359.79	101.07067	-354.8	0.9999183
37	31,982,230.51	709,424.03	101.07133	-342.6	0.9999211
38	31,976,166.23	715,488.31	101.07183	-329.9	0.9999240
39	31,970,101.92	721,552.62	101.07250	-316.9	0.9999270
40	31,964,037.57	727,616.97	101.07317	-303.6	0.9999301
33° 41'	31,957,973.18	733,681.36	101.07350	-289.8	0.9999333
42	31,951,908.77	739,745.77	101.07433	-275.7	0.9999365
43	31,945,844.31	745,810.23	101.07483	-261.3	0.9999398
44	31,939,779.82	751,874.72	101.07550	-246.4	0.9999433
45	31,933,715.29	757,939.25	101.07617	-231.2	0.9999468
33° 46'	31,927,650.72	764,003.82	101.07683	-215.7	0.9999503
47	31,921,586.11	770,068.43	101.07750	-199.7	0.9999540
48	31,915,521.46	776,133.08	101.07800	-183.4	0.9999578
49	31,909,456.78	782,197.76	101.07883	-166.7	0.9999616
50	31,903,392.05	788,262.49	101.07950	-149.7	0.9999655
33° 51'	31,897,327.28	794,327.26	101.08017	-132.3	0.9999695
52	31,891,262.47	800,392.07	101.08083	-114.5	0.9999736
53	31,885,197.62	806,456.92	101.08150	-96.3	0.9999778
54	31,879,132.73	812,521.81	101.08217	-77.8	0.9999821
55	31,873,067.80	818,586.74	101.08300	-58.9	0.9999864
33° 56'	31,867,002.82	824,651.72	101.08367	-39.6	0.9999909
57	31,860,937.80	830,716.74	101.08450	-20.0	0.9999954
58	31,854,872.73	836,781.81	101.08517	0	1.0000000
59	31,848,807.62	842,846.92	101.08600	+20.4	1.0000047
34° 00'	31,842,742.46	848,912.08	101.08667	+41.1	1.0000095

Lambert Projection for Texas (North Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
34° 01'	31,836,677.26	854,977.28	101.08750	+62.3	1.0000143
02	31,830,612.01	861,042.53	101.08817	+83.7	1.0000193
03	31,824,546.72	867,107.82	101.08917	+105.6	1.0000243
04	31,818,481.37	873,173.17	101.08983	+127.8	1.0000294
05	31,812,415.98	879,238.56	101.09067	+150.4	1.0000346
34° 06'	31,806,350.54	885,304.00	101.09133	+173.4	1.0000399
07	31,800,285.06	891,369.48	101.09233	+196.7	1.0000453
08	31,794,219.52	897,435.02	101.09317	+220.4	1.0000507
09	31,788,153.93	903,500.61	101.09400	+244.5	1.0000563
10	31,782,088.29	909,566.25	101.09483	+268.9	1.0000619
34° 11'	31,776,022.60	915,631.94	101.09567	+293.7	1.0000676
12	31,769,956.86	921,697.68	101.09650	+318.9	1.0000734
13	31,763,891.07	927,763.47	101.09750	+344.5	1.0000793
14	31,757,825.22	933,829.32	101.09833	+370.4	1.0000853
15	31,751,759.32	939,895.22	101.09917	+396.7	1.0000913
34° 16'	31,745,693.37	945,961.17	101.10017	+423.4	1.0000975
17	31,739,627.36	952,027.18	101.10100	+450.4	1.0001037
18	31,733,561.30	958,093.24	101.10200	+477.8	1.0001100
19	31,727,495.18	964,159.36	101.10283	+505.6	1.0001164
20	31,721,429.01	970,225.53	101.10383	+533.8	1.0001229
34° 21'	31,715,362.78	976,291.76	101.10467	+564.3	1.0001299
22	31,709,296.50	982,358.04	101.10567	+595.2	1.0001370
23	31,703,230.16	988,424.38	101.10683	+626.4	1.0001442
24	31,697,163.75	994,490.79	101.10767	+658.1	1.0001515
25	31,691,097.29	1,000,557.25	101.10850	+690.1	1.0001589
34° 26'	31,685,030.78	1,006,623.76	101.10967	+722.5	1.0001664
27	31,678,964.20	1,012,690.34	101.11067	+755.2	1.0001739
28	31,672,897.56	1,018,756.98	101.11167	+788.3	1.0001815
29	31,666,830.86	1,024,823.68	101.11267	+821.8	1.0001892
30	31,660,764.10	1,030,890.44		+855.7	1.0001970

Lambert Projection for Texas for (North Central)

Table II

1" of Long. = 0.54539441 of θ

Long.	θ	Long.	θ	Long.	θ
91° 30'	+3° 16' 20.5194	92° 06'	+2° 56' 42.4674	92° 41'	+2° 37' 37.1392
31	+3 15 47.7957	07	+2 56 09.7438	42	+2 37 04.4155
32	+3 15 15.0720	08	+2 55 37.0201	43	+2 36 31.6918
33	+3 14 42.3484	09	+2 55 04.2964	44	+2 35 58.9682
34	+3 14 09.6247	10	+2 54 31.5727	45	+2 35 26.2445
35	+3 13 36.9010				
91° 36'	+3 13 04.1774	92° 11'	+2 53 58.8491	92° 46'	+2 34 53.5208
37	+3 12 31.4537	12	+2 53 26.1254	47	+2 34 20.7972
38	+3 11 58.7300	13	+2 52 53.4018	48	+2 33 48.0735
39	+3 11 26.0064	14	+2 52 20.6781	49	+2 33 15.3498
40	+3 10 53.2827	15	+2 51 47.9544	50	+2 32 42.6262
91° 41'	+3 10 20.5590	92° 16'	+2 51 15.2308	92° 51'	+2 32 09.9025
42	+3 09 47.8354	17	+2 50 42.5071	52	+2 31 37.1788
43	+3 09 15.1117	18	+2 50 09.7834	53	+2 31 04.4552
44	+3 08 42.3880	19	+2 49 37.0598	54	+2 30 31.7315
45	+3 08 09.6644	20	+2 49 04.3361	55	+2 29 59.0078
91° 46'	+3 07 36.9407	92° 21'	+2 48 31.6124	92° 56'	+2 29 26.2842
47	+3 07 04.2171	22	+2 47 58.8888	57	+2 28 53.5605
48	+3 06 31.4934	23	+2 47 26.1651	58	+2 28 20.8368
49	+3 05 58.7697	24	+2 46 53.4415	59	+2 27 48.1132
50	+3 05 26.0461	25	+2 46 20.7178	93° 00'	+2 27 15.3895
91° 51'	+3 04 53.3224	92° 26'	+2 45 47.9941	93° 01'	+2 26 42.6659
52	+3 04 20.5987	27	+2 45 15.2705	02	+2 26 09.9422
53	+3 03 47.8751	28	+2 44 42.5468	03	+2 25 37.2185
54	+3 03 15.1514	29	+2 44 09.8231	04	+2 25 04.4949
55	+3 02 42.4277	30	+2 43 37.0995	05	+2 24 31.7712
91° 56'	+3 02 09.7041	92° 31'	+2 43 04.3758	93° 06'	+2 23 59.0475
57	+3 01 36.9804	32	+2 42 31.6521	07	+2 23 26.3239
58	+3 01 04.2567	33	+2 41 58.9285	08	+2 22 53.6002
59	+3 00 31.5331	34	+2 41 26.2048	09	+2 22 20.8765
92° 00'	+2 59 58.8094	35	+2 40 53.4811	10	+2 21 48.1529
92° 01'	+2 59 26.0857	92° 36'	+2 40 20.7575	93° 11'	+2 21 16.4292
02	+2 58 53.3621	37	+2 39 48.0338	12	+2 20 42.7055
03	+2 58 20.6384	38	+2 39 15.3101	13	+2 20 09.9819
04	+2 57 47.9148	39	+2 38 42.5865	14	+2 19 37.2582
05	+2 57 15.1911	40	+2 38 09.8628	15	+2 19 04.5345

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0.54539441 of θ

Long.	θ	Long.	θ	Long.	θ
93° 16'	+2° 18' 31.8109	93° 51'	+1° 59' 26.4826	94° 26'	+1° 40' 21.1543
17	+2 17 59.0872	52	+1 58 53.7589	27	+1 39 48.4307
18	+2 17 26.3635	53	+1 58 21.0353	28	+1 39 15.7070
19	+2 15 53.6399	54	+1 57 48.3116	29	+1 38 42.9833
20	+2 16 20.9162	55	+1 57 15.5879	30	+1 38 10.2597
93° 21'	+2 15 48.1926	93° 56'	+1 56 42.8643	94° 31'	+1 37 37.5360
22	+2 15 15.4689	57	+1 56 10.1406	32	+1 37 04.8123
23	+2 14 42.7452	58	+1 55 37.4170	33	+1 36 32.0887
24	+2 14 10.0216	59	+1 55 04.6933	34	+1 35 59.3650
25	+2 13 37.2979	94° 00'	+1 54 31.9696	35	+1 35 26.6414
93° 26'	+2 13 04.5742	94° 01'	+1 53 59.2460	94° 36'	+1 34 53.9177
27	+2 12 31.8506	02	+1 53 26.5223	37	+1 34 21.1940
28	+2 11 59.1269	03	+1 52 53.7986	38	+1 33 48.4704
29	+2 11 26.4032	04	+1 52 21.0750	39	+1 33 15.7467
30	+2 10 53.6796	05	+1 51 48.3513	40	+1 32 43.0230
93° 31'	+2 10 20.9559	94° 06'	+1 51 15.6276	94° 41'	+1 32 10.2994
32	+2 09 48.2322	07	+1 50 42.9040	42	+1 31 37.5757
33	+2 09 15.5086	08	+1 50 10.1803	43	+1 31 04.8520
34	+2 08 42.7849	09	+1 49 37.4566	44	+1 30 32.1284
35	+2 08 10.0612	10	+1 49 04.7330	45	+1 29 59.4047
93° 36'	+2 07 37.3376	94° 11'	+1 48 32.0093	94° 46'	+1 29 26.6810
37	+2 07 04.6139	12	+1 47 59.2856	47	+1 28 53.9574
38	+2 06 31.8903	13	+1 47 26.5620	48	+1 28 21.2337
39	+2 05 59.1666	14	+1 46 53.8383	49	+1 27 48.5100
40	+2 05 26.4429	15	+1 46 21.1147	50	+1 27 15.7864
93° 41'	+2 04 53.7193	94° 16'	+1 45 48.3910	94° 51'	+1 26 43.0627
42	+2 04 20.9956	17	+1 45 15.6673	52	+1 26 10.3391
43	+2 03 48.2719	18	+1 44 42.9437	53	+1 25 37.6154
44	+2 03 15.5483	19	+1 44 10.2200	54	+1 25 04.8917
45	+2 02 42.8246	20	+1 43 37.4963	55	+1 24 32.1681
93° 46'	+2 02 10.1009	94° 21'	+1 43 04.7727	94° 56'	+1 23 59.4444
47	+2 01 37.3773	22	+1 42 32.0490	57	+1 23 26.7207
48	+2 01 04.6536	23	+1 41 59.3253	58	+1 22 53.9971
49	+2 00 31.9299	24	+1 41 26.6017	59	+1 22 21.2734
50	+1 59 59.2063	25	+1 40 53.8780	95° 00'	+1 21 48.5497

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0.54539441 of θ

Long.	θ	Long.	θ	Long.	θ
95° 01'	+1° 21' 15.8261	95° 36'	+1° 02' 10.4978	96° 11'	+0° 43' 05.1695
02	+1 20 43.1024	37	+1 01 37.7741	12	+0 42 32.4459
03	+1 20 10.3787	38	+1 01 05.0505	13	+0 41 59.7222
04	+1 19 37.6551	39	+1 00 32.3268	14	+0 41 26.9985
05	+1 19 04.9314	40	+0 59 59.6031	15	+0 40 54.2749
95° 06'	+1 18 32.2077	95° 41'	+0 59 26.8795	96° 16'	+0 40 21.5512
07	+1 17 59.4841	42	+0 58 54.1558	17	+0 39 48.8275
08	+1 17 26.7604	43	+0 58 21.4321	18	+0 39 16.1039
09	+1 16 54.0367	44	+0 57 48.7085	19	+0 38 43.3802
10	+1 16 21.3131	45	+0 57 15.9848	20	+0 38 10.6565
95° 11'	+1 15 48.5894	95° 46'	+0 56 43.2611	96° 21'	+0 37 37.9329
12	+1 15 15.8658	47	+0 56 10.5375	22	+0 37 05.2092
13	+1 14 43.1421	48	+0 55 37.8138	23	+0 36 32.4855
14	+1 14 10.4184	49	+0 55 05.0902	24	+0 35 59.7619
15	+1 13 37.6948	50	+0 54 32.3665	25	+0 35 27.0382
95° 16'	+1 13 04.9711	95° 51'	+0 53 59.6428	96° 26'	+0 34 54.3146
17	+1 12 32.2474	52	+0 53 26.9192	27	+0 34 21.5909
18	+1 11 59.5238	53	+0 52 54.1955	28	+0 33 48.8672
19	+1 11 26.8001	54	+0 52 21.4718	29	+0 33 16.1436
20	+1 10 54.0764	55	+0 51 48.7482	30	+0 32 43.4199
95° 21'	+1 10 21.3528	95° 56'	+0 51 16.0245	96° 31'	+0 32 10.6962
22	+1 09 48.6291	57	+0 50 43.3008	32	+0 31 37.9726
23	+1 09 15.9054	58	+0 50 10.5772	33	+0 31 05.2489
24	+1 08 43.1818	59	+0 49 37.8535	34	+0 30 32.5252
25	+1 08 10.4581	96° 00'	+0 49 05.1298	35	+0 29 59.8016
95° 26'	+1 07 37.7344	96° 01'	+0 48 32.4062	96° 36'	+0 29 27.0779
27	+1 07 05.0108	02	+0 47 59.6825	37	+0 28 54.3542
28	+1 06 32.2871	03	+0 47 26.9588	38	+0 28 21.6306
29	+1 05 59.5635	04	+0 46 54.2352	39	+0 27 48.9069
30	+1 05 26.8398	05	+0 46 21.5115	40	+0 27 16.1832
95° 31'	+1 04 54.1161	96° 06'	+0 45 48.7878	96° 41'	+0 26 43.4596
32	+1 04 21.3925	07	+0 45 16.0642	42	+0 26 10.7359
33	+1 03 48.6688	08	+0 44 43.3405	43	+0 25 38.0122
34	+1 03 15.9451	09	+0 44 10.6169	44	+0 25 05.2886
35	+1 02 43.2215	10	+0 43 37.8932	45	+0 24 32.5649

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0.54539441 of θ

Long.	θ	Long.	θ	Long.	θ
96° 46'	+0° 23' 59.8413	97° 21'	+0° 04' 54.5130	97° 56'	-0° 14' 10.8153
47	+0 23 27.1176	22	+0 04 21.7893	57	-0 14 43.5390
48	+0 22 54.3939	23	+0 03 49.0657	58	-0 15 16.2626
49	+0 22 21.6703	24	+0 03 16.3420	59	-0 15 48.9863
50	+0 21 48.9466	25	+0 02 43.6183	98° 00'	-0 16 21.7099
96° 51'	+0 21 16.2229	97° 26'	+0 02 10.8947	98° 01'	-0 16 54.4336
52	+0 20 43.4993	27	+0 01 38.1710	02	-0 17 27.1573
53	+0 20 10.7756	28	+0 01 05.4473	03	-0 17 59.8809
54	+0 19 38.0519	29	+0 00 32.7237	04	-0 18 32.6046
55	+0 19 05.3283	30	0 00 00.0000	05	-0 19 05.3283
96° 56'	+0 18 32.6046	97° 31'	-0 00 32.7237	98° 06'	-0 19 38.0519
57	+0 17 59.8809	32	-0 01 05.4473	07	-0 20 10.7756
58	+0 17 27.1573	33	-0 01 38.1710	08	-0 20 43.4993
59	+0 16 54.4336	34	-0 02 10.8947	09	-0 21 16.2229
97° 00'	+0 16 21.7099	35	-0 02 43.6183	10	-0 21 48.9466
97° 01'	+0 15 48.9863	97° 36'	-0 03 16.3420	98° 11'	-0 22 21.6703
02	+0 15 16.2626	37	-0 03 49.0657	12	-0 22 54.3939
03	+0 14 43.5390	38	-0 04 21.7893	13	-0 23 27.1176
04	+0 14 10.8153	39	-0 04 54.5130	14	-0 23 59.8413
05	+0 13 38.0916	40	-0 05 27.2366	15	-0 24 32.5649
97° 06'	+0 13 05.3680	97° 41'	-0 05 59.9603	98° 16'	-0 25 05.2886
07	+0 12 32.6443	42	-0 06 32.6840	17	-0 25 38.0122
08	+0 11 59.9206	43	-0 07 05.4076	18	-0 26 10.7359
09	+0 11 27.1970	44	-0 07 38.1313	19	-0 26 43.4596
10	+0 10 54.4733	45	-0 08 10.8550	20	-0 27 16.1832
97° 11'	+0 10 21.7496	97° 46'	-0 08 43.5786	98° 21'	-0 27 48.9069
12	+0 09 49.0260	47	-0 09 16.3023	22	-0 28 21.6306
13	+0 09 16.3023	48	-0 09 49.0260	23	-0 28 54.3542
14	+0 08 43.5786	49	-0 10 21.7496	24	-0 29 27.0779
15	+0 08 10.8550	50	-0 10 54.4733	25	-0 29 59.8016
97° 16'	+0 07 38.1313	97° 51'	-0 11 27.1970	98° 26'	-0 30 32.5252
17	+0 07 05.4076	52	-0 11 59.9206	27	-0 31 05.2489
18	+0 06 32.6840	53	-0 12 32.6443	28	-0 31 37.9726
19	+0 05 59.9603	54	-0 13 05.3680	29	-0 32 10.6962
20	+0 05 27.2366	55	-0 13 38.0916	30	-0 32 43.4199

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0.54539441 of θ

Long.	θ	Long.	θ	Long.	θ
98° 31'	-0° 33' 16.1436	99° 06'	-0° 52' 21.4718	99° 41'	-1° 11' 26.8001
32	-0 33 48.8672	07	-0 52 54.1955	42	-1 11 59.5238
33	-0 34 21.5909	08	-0 53 26.9192	43	-1 12 32.2474
34	-0 34 54.3146	09	-0 53 59.6428	44	-1 13 04.9711
35	-0 35 27.0382	10	-0 54 32.3665	45	-1 13 37.6948
98° 36'	-0 35 59.7619	99° 11'	-0 55 05.0902	99° 46'	-1 14 10.4184
37	-0 36 32.4855	12	-0 55 37.8138	47	-1 14 43.1421
38	-0 37 05.2092	13	-0 56 10.5375	48	-1 15 15.8658
39	-0 37 37.9329	14	-0 56 43.2611	49	-1 15 48.5894
40	-0 38 10.6565	15	-0 57 15.9848	50	-1 16 21.3131
98° 41'	-0 38 43.3802	99° 16'	-0 57 48.7085	99° 51'	-1 16 54.0367
42	-0 39 16.1039	17	-0 58 21.4321	52	-1 17 26.7604
43	-0 39 48.8275	18	-0 58 54.1558	53	-1 17 59.4841
44	-0 40 21.5512	19	-0 59 26.8795	54	-1 18 32.2077
45	-0 40 54.2749	20	-0 59 59.6031	55	-1 19 04.9314
98° 46'	-0 41 26.9985	99° 21'	-1 00 32.3268	99° 56'	-1 19 37.6551
47	-0 41 59.7222	22	-1 01 05.0505	57	-1 20 10.3787
48	-0 42 32.4459	23	-1 01 37.7741	58	-1 20 43.1024
49	-0 43 05.1695	24	-1 02 10.4978	59	-1 21 15.8261
50	-0 43 37.8932	25	-1 02 43.2215	100° 00'	-1 21 48.5497
98° 51'	-0 44 10.6169	99° 26'	-1 03 15.9451	100° 01'	-1 22 21.2734
52	-0 44 43.3405	27	-1 03 48.6688	02	-1 22 53.9971
53	-0 45 16.0642	28	-1 04 21.3925	03	-1 23 26.7207
54	-0 45 48.7878	29	-1 04 54.1161	04	-1 23 59.4444
55	-0 46 21.5115	30	-1 05 26.8398	05	-1 24 32.1681
98° 56'	-0 46 54.2352	99° 31'	-1 05 59.5635	100° 06'	-1 25 04.8917
57	-0 47 26.9588	32	-1 06 32.2871	07	-1 25 37.6154
58	-0 47 59.6825	33	-1 07 05.0108	08	-1 26 10.3391
59	-0 48 32.4062	34	-1 07 37.7344	09	-1 26 43.0627
99° 00'	-0 49 05.1298	35	-1 08 10.4581	10	-1 27 15.7864
99° 01'	-0 49 37.8535	99° 36'	-1 08 43.1818	100° 11'	-1 27 48.5100
02	-0 50 10.5772	37	-1 09 15.9054	12	-1 28 21.2337
03	-0 50 43.3008	38	-1 09 48.6291	13	-1 28 53.9574
04	-0 51 16.0245	39	-1 10 21.3528	14	-1 29 26.6810
05	-0 51 48.7482	40	-1 10 54.0764	15	-1 29 59.4047

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0.54539441 of θ

Long.	θ			Long.	θ			Long.	θ		
100° 16'	-1° 30'	32.1284		100° 51'	-1° 49'	37.4566	101° 26'	-2° 08'	42.7849		
17	-1 31	04.8520		52	-1 50	10.1803	27	-2 09	15.5086		
18	-1 31	37.5757		53	-1 50	42.9040	28	-2 09	48.2322		
19	-1 32	10.2994		54	-1 51	15.6276	29	-2 10	20.9559		
20	-1 32	43.0230		55	-1 51	48.3513	30	-2 10	53.6796		
100° 21'	-1 33	15.7467		100° 56'	-1 52	21.0750	101° 31'	-2 11	26.4032		
22	-1 33	48.4704		57	-1 52	53.7986	32	-2 11	59.1269		
23	-1 34	21.1940		58	-1 53	26.5223	33	-2 12	31.8506		
24	-1 34	53.9177		59	-1 53	59.2460	34	-2 13	04.5742		
25	-1 35	26.6414		101° 00'	-1 54	31.9696	35	-2 13	37.2979		
100° 26'	-1 35	59.3650		101° 01'	-1 55	04.6933	101° 36'	-2 14	10.0216		
27	-1 36	32.0887		02	-1 55	37.4170	37	-2 14	42.7452		
28	-1 37	04.8123		03	-1 56	10.1406	38	-2 15	15.4689		
29	-1 37	37.5360		04	-1 56	42.8643	39	-2 15	48.1926		
30	-1 38	10.2597		05	-1 57	15.5879	40	-2 16	20.9162		
100° 31'	-1 38	42.9833		101° 06'	-1 57	48.3116	101° 41'	-2 16	53.6399		
32	-1 39	15.7070		07	-1 58	21.0353	42	-2 17	26.3635		
33	-1 39	48.4307		08	-1 58	53.7589	43	-2 17	59.0872		
34	-1 40	21.1543		09	-1 59	26.4826	44	-2 18	31.8109		
35	-1 40	53.8780		10	-1 59	59.2063	45	-2 19	04.5345		
100° 36'	-1 41	26.6017		101° 11'	-2 00	31.9299	101° 46'	-2 19	37.2582		
37	-1 41	59.3253		12	-2 01	04.6536	47	-2 20	09.9819		
38	-1 42	32.0490		13	-2 01	37.3773	48	-2 20	42.7055		
39	-1 43	04.7727		14	-2 02	10.1009	49	-2 21	15.4292		
40	-1 43	37.4963		15	-2 02	42.8246	50	-2 21	48.1529		
100° 41'	-1 44	10.2200		101° 16'	-2 03	15.5483	101° 51'	-2 22	20.8765		
42	-1 44	42.9437		17	-2 03	48.2719	52	-2 22	53.6002		
43	-1 45	15.6673		18	-2 04	20.9956	53	-2 23	26.3239		
44	-1 45	48.3910		19	-2 04	53.7193	54	-2 23	59.0475		
45	-1 46	21.1147		20	-2 05	26.4429	55	-2 24	31.7712		
100° 46'	-1 46	53.8383		101° 21'	-2 05	59.1666	101° 56'	-2 25	04.4949		
47	-1 47	26.5620		22	-2 06	31.8903	57	-2 25	37.2185		
48	-1 47	59.2856		23	-2 07	04.6139	58	-2 26	09.9422		
49	-1 48	32.0093		24	-2 07	37.3376	59	-2 26	42.6659		
50	-1 49	04.7330		25	-2 08	10.0612	102° 00'	-2 27	15.3895		

Lambert Projection for Texas (North Central)

Table II (Cont'd)

1" of Long. = 0^o54539441 of θ

Long.	θ	Long.	θ	Long.	θ
102° 01'	-2° 27' 48.1132	102° 36'	-2° 46' 53.4415	103° 11'	-3° 05' 58.7697
02	-2 28 20.8368	37	-2 47 26.1651	12	-3 06 31.4934
03	-2 28 53.5605	38	-2 47 58.8888	13	-3 07 04.2171
04	-2 29 26.2842	39	-2 48 31.6124	14	-3 07 36.9407
05	-2 29 59.0078	40	-2 49 04.3361	15	-3 08 09.6644
102° 06'	-2 30 31.7315	102° 41'	-2 49 37.0598	103° 16'	-3 08 42.3880
07	-2 31 04.4552	42	-2 50 09.7834	17	-3 09 15.1117
08	-2 31 37.1788	43	-2 50 42.5071	18	-3 09 47.8354
09	-2 32 09.9025	44	-2 51 15.2308	19	-3 10 20.5590
10	-2 32 42.6262	45	-2 51 47.9544	20	-3 10 53.2827
102° 11'	-2 33 15.3498	102° 46'	-2 52 20.6781	103° 21'	-3 11 26.0064
12	-2 33 48.0735	47	-2 52 53.4018	22	-3 11 58.7300
13	-2 34 20.7972	48	-2 53 26.1254	23	-3 12 31.4537
14	-2 34 53.5208	49	-2 53 58.8491	24	-3 13 04.1774
15	-2 35 26.2445	50	-2 54 31.5727	25	-3 13 36.9010
102° 16'	-2 35 58.9682	102° 51'	-2 55 04.2964	103° 26'	-3 14 09.6247
17	-2 36 31.6918	52	-2 55 37.0201	27	-3 14 42.3484
18	-2 37 04.4155	53	-2 56 09.7438	28	-3 15 15.0720
19	-2 37 37.1392	54	-2 56 42.4674	29	-3 15 47.7957
20	-2 38 09.8628	55	-2 57 15.1911	30	-3 16 20.5194
102° 21'	-2 38 42.5865	102° 56'	-2 57 47.9148		
22	-2 39 15.3101	57	-2 58 20.6384		
23	-2 39 48.0338	58	-2 58 53.3621		
24	-2 40 20.7575	59	-2 59 26.0857		
25	-2 40 53.4811	103° 00'	-2 59 58.8094		
102° 26'	-2 41 26.2048	103° 01'	-3 00 31.5331		
27	-2 41 58.9285	02	-3 01 04.2567		
28	-2 42 31.6521	03	-3 01 36.9804		
29	-2 43 04.3758	04	-3 02 09.7041		
30	-2 43 37.0995	05	-3 02 42.4277		
102° 31'	-2 44 09.8231	103° 06'	-3 03 15.1514		
32	-2 44 42.5468	07	-3 03 47.8751		
33	-2 45 15.2705	08	-3 04 20.5987		
34	-2 45 47.9941	09	-3 04 53.3224		
35	-2 46 20.7178	10	-3 05 26.0461		

Lambert Projection for Texas (Central)

Table I

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
29° 40'	35,337,121.23	0	101.03067	+653.3	1.0001504
41	35,331,059.39	6,061.84	101.03033	+624.4	1.0001438
42	35,324,997.57	12,123.66	101.03000	+595.8	1.0001372
43	35,318,935.77	18,185.46	101.02950	+567.7	1.0001307
44	35,312,874.00	24,247.23	101.02917	+539.9	1.0001243
45	35,306,812.25	30,308.98	101.02883	+512.4	1.0001180
29° 46'	35,300,750.52	36,370.71	101.02833	+485.3	1.0001117
47	35,294,688.82	42,432.41	101.02800	+458.6	1.0001056
48	35,288,627.14	48,494.09	101.02783	+432.2	1.0000995
49	35,282,565.47	54,555.76	101.02733	+406.2	1.0000935
50	35,276,503.83	60,617.40	101.02700	+380.6	1.0000876
29° 51'	35,270,442.21	66,679.02	101.02667	+355.3	1.0000818
52	35,264,380.61	72,740.62	101.02633	+330.4	1.0000761
53	35,258,319.03	78,802.20	101.02617	+305.8	1.0000704
54	35,252,257.46	84,863.77	101.02567	+281.6	1.0000648
55	35,246,195.92	90,925.31	101.02550	+257.8	1.0000594
29° 56'	35,240,134.39	96,986.84	101.02517	+234.3	1.0000539
57	35,234,072.88	103,048.35	101.02500	+211.2	1.0000486
58	35,228,011.38	109,109.85	101.02467	+188.4	1.0000434
59	35,221,949.90	115,171.33	101.02433	+166.1	1.0000382
30° 00'	35,215,888.44	121,232.79	101.02417	+144.0	1.0000332
30° 01'	35,209,826.99	127,294.24	101.02383	+122.4	1.0000282
02	35,203,765.56	133,355.67	101.02367	+101.0	1.0000233
03	35,197,704.14	139,417.09	101.02350	+80.1	1.0000184
04	35,191,642.73	145,478.50	101.02317	+59.5	1.0000137
05	35,185,581.34	151,539.89	101.02300	+39.3	1.0000090
30° 06'	35,179,519.96	157,601.27	101.02283	+19.4	1.0000045
07	35,173,458.59	163,662.64	101.02267	0.0	1.0000000
08	35,167,397.23	169,724.00	101.02250	-19.2	0.9999956
09	35,161,335.88	175,785.35	101.02217	-38.0	0.9999913
10	35,155,274.55	181,846.68	101.02217	-56.4	0.9999870
30° 11'	35,149,213.22	187,908.01	101.02200	-74.4	0.9999829
12	35,143,151.90	193,969.33	101.02183	-92.1	0.9999788
13	35,137,090.59	200,030.64	101.02167	-109.4	0.9999748
14	35,131,029.29	206,091.94	101.02150	-126.4	0.9999709
15	35,124,968.00	212,153.23	101.02133	-143.0	0.9999671

Lambert Projection for Texas (Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
30° 16'	35,118,906.72	218,214.51	101.02133	-159.2	0.9999633
17	35,112,845.44	224,275.79	101.02133	-175.1	0.9999597
18	35,106,784.16	230,337.07	101.02100	-190.6	0.9999561
19	35,100,722.90	236,398.33	101.02100	-205.8	0.9999526
20	35,094,661.64	242,459.59	101.02100	-220.6	0.9999492
30° 21'	35,088,600.38	248,520.85	101.02083	-235.0	0.9999459
22	35,082,539.13	254,582.10	101.02083	-249.0	0.9999427
23	35,076,477.88	260,643.35	101.02083	-262.7	0.9999395
24	35,070,416.63	266,704.60	101.02067	-276.1	0.9999364
25	35,064,355.39	272,765.84	101.02067	-289.0	0.9999335
30° 26'	35,058,294.15	278,827.08	101.02067	-301.6	0.9999306
27	35,052,232.91	284,888.32	101.02050	-313.9	0.9999277
28	35,046,171.68	290,949.55	101.02067	-325.8	0.9999250
29	35,040,110.44	297,010.79	101.02067	-337.3	0.9999223
30	35,034,049.20	303,072.03	101.02067	-348.4	0.9999198
30° 31'	35,027,987.96	309,133.27	101.02050	-359.2	0.9999173
32	35,021,926.73	315,194.50	101.02067	-369.6	0.9999149
33	35,015,865.49	321,255.74	101.02067	-379.7	0.9999126
34	35,009,804.25	327,316.98	101.02083	-389.4	0.9999103
35	35,003,743.00	333,378.23	101.02067	-398.7	0.9999082
30° 36'	34,997,681.76	339,439.47	101.02083	-407.7	0.9999061
37	34,991,620.51	345,500.72	101.02100	-416.3	0.9999041
38	34,985,559.25	351,561.98	101.02100	-424.5	0.9999023
39	34,979,497.99	357,623.24	101.02100	-432.4	0.9999004
40	34,973,436.73	363,684.50	101.02117	-439.9	0.9998987
30° 41'	34,967,375.46	369,745.77	101.02117	-447.1	0.9998971
42	34,961,314.19	375,807.04	101.02150	-453.9	0.9998955
43	34,955,252.90	381,868.33	101.02133	-460.3	0.9998940
44	34,949,191.62	387,929.61	101.02167	-466.3	0.9998926
45	34,943,130.32	393,990.91	101.02183	-472.0	0.9998913
30° 46'	34,937,069.01	400,052.22	101.02183	-477.4	0.9998901
47	34,931,007.70	406,113.53	101.02200	-482.3	0.9998889
48	34,924,946.38	412,174.85	101.02217	-486.9	0.9998879
49	34,918,885.05	418,236.18	101.02233	-491.1	0.9998869
50	34,912,823.71	424,297.52	101.02267	-495.0	0.9998860

Lambert Projection for Texas (Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
30° 51'	34,906,762.35	430,358.88	101.02267	-498.5	0.9998852
52	34,900,700.99	436,420.24	101.02283	-501.7	0.9998845
53	34,894,639.62	442,481.61	101.02317	-504.4	0.9998839
54	34,888,578.23	448,543.00	101.02333	-506.8	0.9998833
55	34,882,516.83	454,604.40	101.02350	-508.9	0.9998828
30° 56'	34,876,455.42	460,665.81	101.02383	-510.5	0.9998825
57	34,870,393.99	466,727.24	101.02400	-511.9	0.9998822
58	34,864,332.55	472,788.68	101.02433	-512.8	0.9998819
59	34,858,271.09	478,850.14	101.02450	-513.4	0.9998818
31° 00'	34,852,209.62	484,911.61	101.02483	-513.6	0.9998817
31° 01'	34,846,148.13	490,973.10	101.02500	-513.4	0.9998818
02	34,840,086.63	497,034.60	101.02533	-512.9	0.9998819
03	34,834,025.11	503,096.12	101.02567	-512.0	0.9998821
04	34,827,963.57	509,157.66	101.02583	-510.8	0.9998824
05	34,821,902.02	515,219.21	101.02633	-509.2	0.9998828
31° 06'	34,815,840.44	521,280.79	101.02650	-507.2	0.9998832
07	34,809,778.85	527,342.38	101.02683	-504.8	0.9998838
08	34,803,717.24	533,403.99	101.02717	-502.1	0.9998844
09	34,797,655.61	539,465.62	101.02767	-499.0	0.9998851
10	34,791,593.95	545,527.28	101.02783	-495.6	0.9998859
31° 11'	34,785,532.28	551,588.95	101.02817	-491.8	0.9998868
12	34,779,470.59	557,650.64	101.02867	-487.6	0.9998877
13	34,773,408.87	563,712.36	101.02900	-483.1	0.9998888
14	34,767,347.13	569,774.10	101.02933	-478.1	0.9998899
15	34,761,285.37	575,835.86	101.02983	-472.9	0.9998911
31° 16'	34,755,223.58	581,897.65	101.03017	-467.2	0.9998924
17	34,749,161.77	587,959.46	101.03050	-461.2	0.9998938
18	34,743,099.94	594,021.29	101.03100	-454.8	0.9998953
19	34,737,038.08	600,083.15	101.03150	-448.1	0.9998968
20	34,730,976.19	606,145.04	101.03183	-441.0	0.9998985
31° 21'	34,724,914.28	612,206.95	101.03233	-433.5	0.9999002
22	34,718,852.34	618,268.89	101.03267	-425.7	0.9999020
23	34,712,790.38	624,330.85	101.03333	-417.4	0.9999039
24	34,706,728.38	630,392.85	101.03367	-408.9	0.9999058
25	34,700,666.36	636,454.87	101.03417	-399.9	0.9999079

Lambert Projection for Texas (Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
31° 26'	34,694,604.31	642,516.92	101.03467	-390.6	0.9999101
27	34,688,542.23	648,579.00	101.03500	-380.9	0.9999123
28	34,682,480.13	654,641.10	101.03567	-370.9	0.9999146
29	34,676,417.99	660,703.24	101.03617	-360.4	0.9999170
30	34,670,355.82	666,765.41	101.03667	-349.7	0.9999195
31° 31'	34,664,293.62	672,827.61	101.03733	-338.5	0.9999221
32	34,658,231.38	678,889.85	101.03767	-327.0	0.9999247
33	34,652,169.12	684,952.11	101.03833	-315.1	0.9999274
34	34,646,106.82	691,014.41	101.03883	-302.8	0.9999303
35	34,640,044.49	697,076.74	101.03950	-290.2	0.9999332
31° 36'	34,633,982.12	703,139.11	101.04000	-277.2	0.9999362
37	34,627,919.72	709,201.51	101.04050	-263.9	0.9999392
38	34,621,857.29	715,263.94	101.04117	-250.1	0.9999424
39	34,615,794.82	721,326.41	101.04183	-236.0	0.9999457
40	34,609,732.31	727,388.92	101.04233	-221.6	0.9999490
31° 41'	34,603,669.77	733,451.46	101.04300	-206.7	0.9999524
42	34,597,607.19	739,514.04	101.04367	-191.5	0.9999559
43	34,591,544.57	745,576.66	101.04417	-176.0	0.9999595
44	34,585,481.92	751,639.31	101.04483	-160.0	0.9999632
45	34,579,419.23	757,702.00	101.04567	-143.7	0.9999669
31° 46'	34,573,356.49	763,764.74	101.04617	-127.1	0.9999707
47	34,567,293.72	769,827.51	101.04683	-110.0	0.9999747
48	34,561,230.91	775,890.32	101.04750	-92.6	0.9999787
49	34,555,168.06	781,953.17	101.04833	-74.8	0.9999828
50	34,549,105.16	788,016.07	101.04883	-56.7	0.9999869
31° 51'	34,543,042.23	794,079.00	101.04967	-38.1	0.9999912
52	34,536,979.25	800,141.98	101.05033	-19.3	0.9999956
53	34,530,916.23	806,205.00	101.05100	0.0	1.0000000
54	34,524,853.17	812,268.06	101.05183	+19.6	1.0000045
55	34,518,790.06	818,331.17	101.05250	+39.6	1.0000091
31° 56'	34,512,726.91	824,394.32	101.05333	+60.0	1.0000138
57	34,506,663.71	830,457.52	101.05400	+80.7	1.0000186
58	34,500,600.47	836,520.76	101.05433	+101.8	1.0000234
59	34,494,537.18	842,584.05	101.05550	+123.3	1.0000284
32° 00'	34,488,473.85	848,647.38	101.05650	+145.2	1.0000334

Lambert Projection for Texas (Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7 th place of logs	Scale expressed as a ratio
32° 01'	34,482,410.46	854,710.77	101.05700	+167.4	1.0000385
02	34,476,347.04	860,774.19	101.05800	+190.0	1.0000437
03	34,470,283.56	866,837.67	101.05883	+212.9	1.0000490
04	34,464,220.03	872,901.20	101.05950	+236.2	1.0000544
05	34,458,156.46	878,964.77	101.06033	+259.9	1.0000598
32° 06'	34,452,092.84	885,028.39	101.06133	+284.0	1.0000654
07	34,446,029.16	891,092.07	101.06200	+308.4	1.0000710
08	34,439,965.44	897,155.79	101.06283	+333.2	1.0000767
09	34,433,901.67	903,219.56	101.06383	+358.4	1.0000825
10	34,427,837.84	909,283.39	101.06467	+383.9	1.0000884
32° 11'	34,421,773.96	915,347.27	101.06550	+409.8	1.0000944
12	34,415,710.03	921,411.20	101.06633	+436.1	1.0001004
13	34,409,646.05	927,475.18	101.06733	+462.8	1.0001066
14	34,403,582.01	933,539.22	101.06817	+489.8	1.0001128
15	34,397,517.92	939,603.31	101.06917	+517.2	1.0001191
32° 16'	34,391,453.77	945,667.46	101.07000	+545.0	1.0001255
17	34,385,389.57	951,731.66	101.07100	+573.1	1.0001320
18	34,379,325.31	957,795.92	101.07183	+601.6	1.0001385
19	34,373,261.00	963,860.23	101.07283	+630.5	1.0001452
20	34,367,196.63	969,924.60	101.07383	+659.7	1.0001519
32° 21'	34,361,132.20	975,989.03	101.07483	+689.4	1.0001587
22	34,355,067.71	982,053.52	101.07567	+719.3	1.0001656
23	34,349,003.17	988,118.06	101.07683	+749.7	1.0001726
24	34,342,938.56	994,182.67	101.07767	+780.4	1.0001797
25	34,336,873.90	1,000,247.33	101.07867	+811.5	1.0001869
32° 26'	34,330,809.18	1,006,312.05	101.07967	+843.0	1.0001941
27	34,324,744.40	1,012,376.83	101.08083	+874.9	1.0002015
28	34,318,679.55	1,018,441.68	101.08167	+907.1	1.0002089
29	34,312,614.65	1,024,506.58	101.08283	+939.7	1.0002164
30	34,306,549.68	1,030,571.55	101.08383	+972.6	1.0002239
32° 31'	34,300,484.65	1,036,636.58	101.08483	+1006.0	1.0002316
32	34,294,419.56	1,042,701.67	101.08600	+1039.7	1.0002394
33	34,288,354.40	1,048,766.83	101.08700	+1073.8	1.0002473
34	34,282,289.18	1,054,832.05	101.08817	+1108.2	1.0002552
35	34,276,223.89	1,060,897.34	101.08917	+1143.0	1.0002632

Lambert Projection for Texas (Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
32° 36'	34,270,158.54	1,066,962.69	101.09017	+1178.2	1.0002713
37	34,264,093.13	1,073,028.10	101.09150	+1213.8	1.0002795
38	34,258,027.64	1,079,093.59	101.09233	+1249.7	1.0002878
39	34,251,962.10	1,085,159.13	101.09367	+1286.0	1.0002961
40	34,245,896.48	1,091,224.75		+1332.7	1.0003069

Lambert Projection for Texas (Central)

Table II (Cont'd)

1" of Long. = 0.51505889

Long.	e			Long.	e			Long.	e		
95° 06'	+2°	41'	43.7094	95° 41'	+2°	23'	42.0857	96° 16'	+2°	05'	40.4621
07	+2	41	12.8059	42	+2	23	11.1822	17	+2	05	09.5586
08	+2	40	41.9023	43	+2	22	40.2787	18	+2	04	38.6550
09	+2	40	10.9988	44	+2	22	09.3751	19	+2	04	07.7515
10	+2	39	40.0953	45	+2	21	38.4716	20	+2	03	36.8480
95° 11'	+2	39	09.1917	95° 46'	+2	21	07.5681	96° 21'	+2	03	05.9444
12	+2	38	38.2882	47	+2	20	36.6645	22	+2	02	35.0409
13	+2	38	07.3847	48	+2	20	05.7610	23	+2	02	04.1374
14	+2	37	36.4811	49	+2	19	34.8575	24	+2	01	33.2338
15	+2	37	05.5776	50	+2	19	03.9539	25	+2	01	02.3303
95° 16'	+2	36	34.6741	95° 51'	+2	18	33.0504	96° 26'	+2	00	31.4268
17	+2	36	03.7705	52	+2	18	02.1469	27	+2	00	00.5232
18	+2	35	32.8670	53	+2	17	31.2433	28	+1	59	29.6197
19	+2	35	01.9635	54	+2	17	00.3398	29	+1	58	58.7162
20	+2	34	31.0599	55	+2	16	29.4363	30	+1	58	27.8126
95° 21'	+2	34	00.1564	95° 56'	+2	15	58.5327	96° 31'	+1	57	56.9091
22	+2	33	29.2529	57	+2	15	27.6292	32	+1	57	26.0056
23	+2	32	58.3493	58	+2	14	56.7257	33	+1	56	55.1020
24	+2	32	27.4458	59	+2	14	25.8221	34	+1	56	24.1985
25	+2	31	56.5423	96° 00	+2	13	54.9186	35	+1	55	53.2950
95° 26'	+2	31	25.6387	96° 01'	+2	13	24.0151	96° 36'	+1	55	22.3914
27	+2	30	54.7352	02	+2	12	53.1116	37	+1	54	51.4879
28	+2	30	23.8317	03	+2	12	22.2080	38	+1	54	20.5844
29	+2	29	52.9281	04	+2	11	51.3045	39	+1	53	49.6808
30	+2	29	22.0246	05	+2	11	20.4010	40	+1	53	18.7773
95° 31'	+2	28	51.1211	96° 06'	+2	10	49.4974	96° 41'	+1	52	47.8738
32	+2	28	20.2175	07	+2	10	18.5939	42	+1	52	16.9702
33	+2	27	49.3140	08	+2	09	47.6904	43	+1	51	46.0667
34	+2	27	18.4105	09	+2	09	16.7868	44	+1	51	15.1632
35	+2	26	47.5069	10	+2	08	45.8833	45	+1	50	44.2596
95° 36'	+2	26	16.6034	96° 11'	+2	08	14.9798	96° 46'	+1	50	13.3561
37	+2	25	45.6999	12	+2	07	44.0762	47	+1	49	42.4526
38	+2	25	14.7963	13	+2	07	13.1727	48	+1	49	11.5490
39	+2	24	43.8928	14	+2	06	42.2692	49	+1	48	40.6455
40	+2	24	12.9893	15	+2	06	11.3656	50	+1	48	09.7420

Lambert Projection for Texas (Central)

Table II (Cont'd)

1" of Long. = 0.51505889

Long.	e			Long.	e			Long.	e		
96° 51'	+1°	47'	38.8384	97° 26'	+1°	29'	37.2148	98° 01'	+1°	11'	35.5911
52	+1	47	07.9349	27	+1	29	06.3112	02	+1	11	04.6876
53	+1	46	37.0314	28	+1	28	35.4077	03	+1	10	33.7840
54	+1	46	06.1278	29	+1	28	04.5042	04	+1	10	02.8805
55	+1	45	35.2243	30	+1	27	33.6006	05	+1	09	31.9770
96° 56'	+1	45	04.3208	97° 31'	+1	27	02.6971	98° 06'	+1	09	01.0734
57	+1	44	33.4172	32	+1	26	31.7936	07	+1	08	30.1699
58	+1	44	02.5137	33	+1	26	00.8900	08	+1	07	59.2664
59	+1	43	31.6102	34	+1	25	29.9865	09	+1	07	28.3628
97° 00	+1	43	00.7066	35	+1	24	59.0830	10	+1	06	57.4593
97° 01'	+1	42	29.8031	97° 36'	+1	24	28.1794	98° 11'	+1	06	26.5558
02	+1	41	58.8996	37	+1	23	57.2759	12	+1	05	55.6522
03	+1	41	27.9960	38	+1	23	26.3724	13	+1	05	24.7487
04	+1	40	57.0925	39	+1	22	55.4688	14	+1	04	53.8452
05	+1	40	26.1890	40	+1	22	24.5653	15	+1	04	22.9416
97° 06'	+1	39	55.2854	97° 41'	+1	21	53.6618	98° 16'	+1	03	52.0381
07	+1	39	24.3819	42	+1	21	22.7582	17	+1	03	21.1346
08	+1	38	53.4784	43	+1	20	51.8547	18	+1	02	50.2310
09	+1	38	22.5748	44	+1	20	20.9512	19	+1	02	19.3275
10	+1	37	51.6713	45	+1	19	50.0476	20	+1	01	48.4240
97° 11'	+1	37	20.7678	97° 46'	+1	19	19.1441	98° 21'	+1	01	17.5204
12	+1	36	49.8642	47	+1	18	48.2406	22	+1	00	46.6169
13	+1	36	18.9607	48	+1	18	17.3370	23	+1	00	15.7134
14	+1	35	48.0572	49	+1	17	46.4335	24	+0	59	44.8098
15	+1	35	17.1536	50	+1	17	15.5300	25	+0	59	13.9063
97° 16'	+1	34	46.2501	97° 51'	+1	16	44.6264	98° 26'	+0	58	43.0028
17	+1	34	15.3466	52	+1	16	13.7229	27	+0	58	12.0992
18	+1	33	44.4430	53	+1	15	42.8194	28	+0	57	41.1957
19	+1	33	13.5395	54	+1	15	11.9158	29	+0	57	10.2922
20	+1	32	42.6360	55	+1	14	41.0123	30	+0	56	39.3886
97° 21'	+1	32	11.7324	97° 56'	+1	14	10.1088	98° 31'	+0	56	08.4851
22	+1	31	40.8289	57	+1	13	39.2052	32	+0	55	37.5816
23	+1	31	09.9254	58	+1	13	08.3017	33	+0	55	06.6780
24	+1	30	39.0218	59	+1	12	37.3982	34	+0	54	35.7745
25	+1	30	08.1183	98° 00	+1	12	06.4946	35	+0	54	04.8710

Lambert Projection for Texas (Central)

Table II (Cont'd)

1" of Long. = 0.51505889

Long.	e			Long.	e			Long.	e		
98° 36'	+0°	53'	33.9674	99° 11'	+0°	35'	32.3438	99° 46'	+0°	17'	30.7201
37	+0	53	03.0639	12	+0	35	01.4403	47	+0	16	59.8166
38	+0	52	32.1604	13	+0	34	30.5367	48	+0	16	28.9131
39	+0	52	01.2568	14	+0	33	59.6332	49	+0	15	58.0095
40	+0	51	30.3533	15	+0	33	28.7297	50	+0	15	27.1060
98° 41'	+0	50	59.4498	99° 16'	+0	32	57.8261	99° 51'	+0	14	56.2025
42	+0	50	28.5462	17	+0	32	26.9226	52	+0	14	25.2989
43	+0	49	57.6427	18	+0	31	56.0191	53	+0	13	54.3954
44	+0	49	26.7392	19	+0	31	25.1155	54	+0	13	23.4919
45	+0	48	55.8356	20	+0	30	54.2120	55	+0	12	52.5883
98° 46'	+0	48	24.9321	99° 21'	+0	30	23.3085	99° 56'	+0	12	21.6848
47	+0	47	54.0286	22	+0	29	52.4049	57	+0	11	50.7813
48	+0	47	23.1250	23	+0	29	21.5014	58	+0	11	19.8777
49	+0	46	52.2215	24	+0	28	50.5979	59	+0	10	48.9742
50	+0	46	21.3180	25	+0	28	19.6943	100° 00	+0	10	18.0707
98° 51'	+0	45	50.4144	99° 26'	+0	27	48.7908	100° 01'	+0	09	47.1671
52	+0	45	19.5109	27	+0	27	17.8873	02	+0	09	16.2636
53	+0	44	48.6074	28	+0	26	46.9837	03	+0	08	45.3601
54	+0	44	17.7039	29	+0	26	16.0802	04	+0	08	14.4565
55	+0	43	46.8003	30	+0	25	45.1767	05	+0	07	43.5530
98° 56'	+0	43	15.8968	99° 31'	+0	25	14.2731	100° 06'	+0	07	12.6495
57	+0	42	44.9933	32	+0	24	43.3696	07	+0	06	41.7459
58	+0	42	14.0897	33	+0	24	12.4661	08	+0	06	10.8424
59	+0	41	43.1862	34	+0	23	41.5625	09	+0	05	39.9389
99° 00	+0	41	12.2827	35	+0	23	10.6590	10	+0	05	09.0353
99° 01'	+0	40	41.3791	99° 36'	+0	22	39.7555	100° 11'	+0	04	38.1318
02	+0	40	10.4756	37	+0	22	08.8519	12	+0	04	07.2283
03	+0	39	39.5721	38	+0	21	37.9484	13	+0	03	36.3247
04	+0	39	08.6685	39	+0	21	07.0449	14	+0	03	05.4212
05	+0	38	37.7650	40	+0	20	36.1413	15	+0	02	34.5177
99° 06'	+0	38	06.8615	99° 41'	+0	20	05.2378	100° 16'	+0	02	03.6141
07	+0	37	35.9579	42	+0	19	34.3343	17	+0	01	32.7106
08	+0	37	05.0544	43	+0	19	03.4307	18	+0	01	01.8071
09	+0	36	34.1509	44	+0	18	32.5272	19	+0	00	30.9035
10	+0	36	03.2473	45	+0	18	01.6237	20	0	00	00.0000

Lambert Projection for Texas (Central)

Table II (Cont'd)

1" of Long. = 0.51505889

Long.	θ			Long.	θ			Long.	θ		
100° 21'	-0°	00'	30.9035	100° 56'	-0°	18'	32.5272	101° 31'	-0°	36'	34.1509
22	-0	01	01.8071	57	-0	19	03.4307	32	-0	37	05.0544
23	-0	01	32.7106	58	-0	19	34.3343	33	-0	37	35.9579
24	-0	02	03.6141	59	-0	20	05.2378	34	-0	38	06.8615
25	-0	02	34.5177	101° 00	-0	20	36.1413	35	-0	38	37.7650
100° 26'	-0	03	05.4212	101° 01'	-0	21	07.0449	101° 36'	-0	39	08.6685
27	-0	03	36.3247	02	-0	21	37.9484	37	-0	39	39.5721
28	-0	04	07.2283	03	-0	22	08.8519	38	-0	40	10.4756
29	-0	04	38.1318	04	-0	22	39.7555	39	-0	40	41.3791
30	-0	05	09.0353	05	-0	23	10.6590	40	-0	41	12.2827
100° 31'	-0	05	39.9389	101° 06'	-0	23	41.5625	101° 41'	-0	41	43.1862
32	-0	06	10.8424	07	-0	24	12.4661	42	-0	42	14.0897
33	-0	06	41.7459	08	-0	24	43.3696	43	-0	42	44.9933
34	-0	07	12.6495	09	-0	25	14.2731	44	-0	43	15.8968
35	-0	07	43.5530	10	-0	25	45.1767	45	-0	43	46.8003
100° 36'	-0	08	14.4565	101° 11'	-0	26	16.0802	101° 46'	-0	44	17.7039
37	-0	08	45.3601	12	-0	26	46.9837	47	-0	44	48.6074
38	-0	09	16.2636	13	-0	27	17.8873	48	-0	45	19.5109
39	-0	09	47.1671	14	-0	27	48.7908	49	-0	45	50.4144
40	-0	10	18.0707	15	-0	28	19.6943	50	-0	46	21.3180
100° 41'	-0	10	48.9742	101° 16'	-0	28	50.5979	101° 51'	-0	46	52.2215
42	-0	11	19.8777	17	-0	29	21.5014	52	-0	47	23.1250
43	-0	11	50.7813	18	-0	29	52.4049	53	-0	47	54.0286
44	-0	12	21.6848	19	-0	30	23.3085	54	-0	48	24.9321
45	-0	12	52.5883	20	-0	30	54.2120	55	-0	48	55.8356
100° 46'	-0	13	23.4919	101° 21'	-0	31	25.1155	101° 56'	-0	49	26.7392
47	-0	13	54.3954	22	-0	31	56.0191	57	-0	49	57.6427
48	-0	14	25.2989	23	-0	32	26.9226	58	-0	50	28.5462
49	-0	14	56.2025	24	-0	32	57.8261	59	-0	50	59.4498
50	-0	15	27.1060	25	-0	33	28.7297	102° 00	-0	51	30.3533
100° 51'	-0	15	58.0095	101° 26'	-0	33	59.6332	102° 01'	-0	52	01.2568
52	-0	16	28.9131	27	-0	34	30.5367	02	-0	52	32.1604
53	-0	16	59.8166	28	-0	35	01.4403	03	-0	53	03.0639
54	-0	17	30.7201	29	-0	35	32.3438	04	-0	53	33.9674
55	-0	18	01.6237	30	-0	36	03.2473	05	-0	54	04.8710

Lambert Projection for Texas(Central)

Table II (Cont'd)

1" of Long. = 0!51505889

Long.	e			Long.	e			Long.	e		
102° 06'	-0°	54'	35!7745	102° 41'	-1°	12'	37!3982	103° 16'	-1°	30'	39!0218
07	-0	55	06.6780	42	-1	13	08.3017	17	-1	31	09.9254
08	-0	55	37.5816	43	-1	13	39.2052	18	-1	31	40.8289
09	-0	56	08.4851	44	-1	14	10.1088	19	-1	32	11.7324
10	-0	56	39.3886	45	-1	14	41.0123	20	-1	32	42.6360
102° 11'	-0	57	10.2922	102° 46'	-1	15	11.9158	103° 21'	-1	33	13.5395
12	-0	57	41.1957	47	-1	15	42.8194	22	-1	33	44.4430
13	-0	58	12.0992	48	-1	16	13.7229	23	-1	34	15.3466
14	-0	58	43.0028	49	-1	16	44.6264	24	-1	34	46.2501
15	-0	59	13.9063	50	-1	17	15.5300	25	-1	35	17.1536
102° 16'	-0	59	44.8098	102° 51'	-1	17	46.4335	103° 26'	-1	35	48.0572
17	-1	00	15.7134	52	-1	18	17.3370	27	-1	36	18.9607
18	-1	00	46.6169	53	-1	18	48.2406	28	-1	36	49.8642
19	-1	01	17.5204	54	-1	19	19.1441	29	-1	37	20.7678
20	-1	01	48.4240	55'	-1	19	50.0476	30	-1	37	51.6713
102° 21'	-1	02	19.3275	102° 56'	-1	20	20.9512	103° 31'	-1	38	22.5748
22	-1	02	50.2310	57	-1	20	51.8547	32	-1	38	53.4784
23	-1	03	21.1346	58	-1	21	22.7582	33	-1	39	24.3819
24	-1	03	52.0381	59	-1	21	53.6618	34	-1	39	55.2854
25	-1	04	22.9416	103° 00'	-1	22	24.5653	35	-1	40	26.1890
102° 26'	-1	04	53.8452	103° 01'	-1	22	55.4688	103° 36'	-1	40	57.0925
27	-1	05	24.7487	02	-1	23	26.3724	37	-1	41	27.9960
28	-1	05	55.6522	03	-1	23	57.2759	38	-1	41	58.8996
29	-1	06	26.5558	04	-1	24	28.1794	39	-1	42	29.8031
30	-1	06	57.4593	05	-1	24	59.0830	40	-1	43	00.7066
102° 31'	-1	07	28.3628	103° 06'	-1	25	29.9865	103° 41'	-1	43	31.6102
32	-1	07	59.2664	07	-1	26	00.8900	42	-1	44	02.5137
33	-1	08	30.1699	08	-1	26	31.7936	43	-1	44	33.4172
34	-1	09	01.0734	09	-1	27	02.6971	44	-1	45	04.3208
35	-1	09	31.9770	10	-1	27	33.6006	45	-1	45	35.2243
102° 36'	-1	10	02.8805	103° 11'	-1	28	04.5042	103° 46'	-1	46	06.1278
37	-1	10	33.7840	12	-1	28	35.4077	47	-1	46	37.0314
38	-1	11	04.6876	13	-1	29	06.3112	48	-1	47	07.9349
39	-1	11	35.5911	14	-1	29	37.2148	49	-1	47	38.8384
40	-1	12	06.4946	15	-1	30	08.1183	50	-1	48	09.7420

Lambert Projection for Texas (Central)

Table II (Cont'd)

1" of Long. = 0!51505889

Long.	e			Long.	e			Long.	e		
103° 51'	-1°	48'	40!6455	104° 26'	-2°	06'	42!2692	105° 01'	-2°	24'	43!8928
52	-1	49	11.5490	27	-2	07	13.1727	02	-2	25	14.7963
53	-1	49	42.4526	28	-2	07	44.0762	03	-2	25	45.6999
54	-1	50	13.3561	29	-2	08	14.9798	04	-2	26	16.6034
55	-1	50	44.2596	30	-2	08	45.8833	05	-2	26	47.5069
103° 56'	-1	51	15.1632	104° 31'	-2	09	16.7868	105° 06'	-2	27	18.4105
57	-1	51	46.0667	32	-2	09	47.6904	07	-2	27	49.3140
58	-1	52	16.9702	33	-2	10	18.5939	08	-2	28	20.2175
59	-1	52	47.8738	34	-2	10	49.4974	09	-2	28	51.1211
104° 00	-1	53	18.7773	35	-2	11	20.4010	10	-2	29	22.0246
104° 01'	-1	53	49.6808	104° 36'	-2	11	51.3045	105° 11'	-2	29	52.9281
02	-1	54	20.5844	37	-2	12	22.2080	12	-2	30	23.8317
03	-1	54	51.4879	38	-2	12	53.1116	13	-2	30	54.7352
04	-1	55	22.3914	39	-2	13	24.0151	14	-2	31	25.6387
05	-1	55	53.2950	40	-2	13	54.9186	15	-2	31	56.5423
104° 06'	-1	56	24.1985	104° 41'	-2	14	25.8221	105° 16'	-2	32	27.4458
07	-1	56	55.1020	42	-2	14	56.7257	17	-2	32	58.3493
08	-1	57	26.0056	43	-2	15	27.6292	18	-2	33	29.2529
09	-1	57	56.9091	44	-2	15	58.5327	19	-2	34	00.1564
10	-1	58	27.8126	45	-2	16	29.4363	20	-2	34	31.0599
104° 11'	-1	58	58.7162	104° 46'	-2	17	00.3398	105° 21'	-2	35	01.9635
12	-1	59	29.6197	47	-2	17	31.2433	22	-2	35	32.8670
13	-2	00	00.5232	48	-2	18	02.1469	23	-2	36	03.7705
14	-2	00	31.4268	49	-2	18	33.0504	24	-2	36	34.6741
15	-2	01	02.3303	50	-2	19	03.9539	25	-2	37	05.5776
104° 16'	-2	01	33.2338	104° 51'	-2	19	34.8575	105° 26'	-2	37	36.4811
17	-2	02	04.1374	52	-2	20	05.7610	27	-2	38	07.3847
18	-2	02	35.0409	53	-2	20	36.6645	28	-2	38	38.2882
19	-2	03	05.9444	54	-2	21	07.5681	29	-2	39	09.1917
20	-2	03	36.8480	55	-2	21	38.4716	30	-2	39	40.0953
104° 21'	-2	04	07.7515	104° 56'	-2	22	09.3751	105° 31'	-2	40	10.9988
22	-2	04	38.6550	57	-2	22	40.2787	32	-2	40	41.9023
23	-2	05	09.5586	58	-2	23	11.1822	33	-2	41	12.8059
24	-2	05	40.4621	59	-2	23	42.0857	34	-2	41	43.7094
25	-2	06	11.3656	105° 00	-2	24	12.9893	35	-2	42	14.6129

Lambert Projection for Texas(Central)

Table II (Cont'd)

1" of Long. = 0!51505889

Long.	θ		Long.	θ	
105° 36'	-2° 42'	45!5165	106° 11'	-3° 00'	47!1401
37	-2 43	16.4200	12	-3 01	18.0437
38	-2 43	47.3235	13	-3 01	48.9472
39	-2 44	18.2271	14	-3 02	19.8507
40	-2 44	49.1306	15	-3 02	50.7543
105° 41'	-2 45	20.0341	106° 16'	-3 03	21.6578
42	-2 45	50.9377	17	-3 03	52.5613
43	-2 46	21.8412	18	-3 04	23.4649
44	-2 46	52.7447	19	-3 04	54.3684
45	-2 47	23.6483	20	-3 05	25.2719
105° 46'	-2 47	54.5518	106° 21'	-3 05	56.1755
47	-2 48	25.4553	22	-3 06	27.0790
48	-2 48	56.3589	23	-3 06	57.9825
49	-2 49	27.2624	24	-3 07	28.8861
50	-2 49	58.1659	25	-3 07	59.7896
105° 51'	-2 50	29.0695	106° 26'	-3 08	30.6931
52	-2 50	59.9730	27	-3 09	01.5967
53	-2 51	30.8765	28	-3 09	32.5002
54	-2 52	01.7801	29	-3 10	03.4037
55	-2 52	32.6836	30	-3 10	34.3073
105° 56'	-2 53	03.5871	106° 31'	-3 11	05.2108
57	-2 53	34.4907	32	-3 11	36.1143
58	-2 54	05.3942	33	-3 12	07.0179
59	-2 54	36.2977	34	-3 12	37.9214
106° 00	-2 55	07.2013	35	-3 13	08.8249
106° 01'	-2 55	38.1043	106° 36'	-3 13	39.7285
02	-2 56	09.0083	37	-3 14	10.6320
03	-2 56	39.9119	38	-3 14	41.5355
04	-2 57	10.8154	39	-3 15	12.4391
05	-2 57	41.7189	40	-3 15	43.3426
106° 06'	-2 58	12.6225	106° 41'	-3 16	14.2461
07	-2 58	43.5260	42	-3 16	45.1497
08	-2 59	14.4295	43	-3 17	16.0532
09	-2 59	45.3331	44	-3 17	46.9567
10	-3 00	16.2366	45	-3 18	17.8603

Lambert Projection for Texas (South Central)

Table I

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
27° 50'	37,807,440.38	0	101.00817	+883.0	1.0002033
51	37,801,379.89	6,060.49	101.00783	+849.6	1.0001956
52	37,795,319.42	12,120.96	101.00733	+817.4	1.0001882
53	37,789,258.98	18,181.40	101.00683	+785.6	1.0001809
54	37,783,198.57	24,241.81	101.00633	+754.2	1.0001737
55	37,777,138.19	30,302.19	101.00583	+723.2	1.0001665
27° 56'	37,771,077.84	36,362.54	101.00533	+692.5	1.0001594
57	37,765,017.52	42,422.86	101.00500	+662.1	1.0001524
58	37,758,957.22	48,483.16	101.00450	+632.1	1.0001455
59	37,752,896.95	54,543.43	101.00400	+602.5	1.0001387
28° 00'	37,746,836.71	60,603.67	101.00367	+573.3	1.0001320
28° 01'	37,740,776.49	66,663.89	101.00317	+544.4	1.0001254
02	37,734,716.30	72,724.08	101.00283	+515.8	1.0001188
03	37,728,656.13	78,784.25	101.00250	+487.6	1.0001123
04	37,722,595.98	84,844.40	101.00200	+459.8	1.0001059
05	37,716,535.86	90,904.52	101.00167	+432.4	1.0000996
28° 06'	37,710,475.76	96,964.62	101.00117	+405.3	1.0000933
07	37,704,415.69	103,024.69	101.00083	+378.5	1.0000872
08	37,698,355.64	109,084.74	101.00050	+352.2	1.0000811
09	37,692,295.61	115,144.77	101.00017	+326.2	1.0000751
10	37,686,235.60	121,204.78	100.99983	+300.5	1.0000692
28° 11'	37,680,175.61	127,264.77	100.99950	+275.2	1.0000634
12	37,674,115.64	133,324.74	100.99900	+250.3	1.0000576
13	37,668,055.70	139,384.68	100.99883	+225.7	1.0000520
14	37,661,995.77	145,444.61	100.99867	+201.5	1.0000464
15	37,655,935.85	151,504.53	100.99817	+177.7	1.0000409
28° 16'	37,649,875.96	157,564.42	100.99783	+154.2	1.0000355
17	37,643,816.09	163,624.29	100.99767	+131.0	1.0000302
18	37,637,756.23	169,684.15	100.99733	+108.3	1.0000249
19	37,631,696.39	175,743.99	100.99717	+85.9	1.0000198
20	37,625,636.56	181,803.82	100.99683	+63.9	1.0000147
28° 21'	37,619,576.75	187,863.63	100.99667	+42.2	1.0000097
22	37,613,516.95	193,923.43	100.99633	+20.6	1.0000047
23	37,607,457.17	199,983.21	100.99600	0.0	1.0000000
24	37,601,397.41	206,042.97	100.99600	-20.7	0.9999953
25	37,595,337.65	212,102.73	100.99567	-40.9	0.9999906

Lambert Projection for Texas (South Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
28° 26'	37,589,277.91	218,162.47	100.99550	-60.8	0.9999860
27	37,583,218.18	224,222.20	100.99517	-80.3	0.9999815
28	37,577,158.47	230,281.91	100.99517	-99.4	0.9999771
29	37,571,098.76	236,341.62	100.99483	-118.2	0.9999728
30	37,565,039.07	242,401.31	100.99483	-136.6	0.9999686
28° 31'	37,558,979.38	248,461.00	100.99450	-154.6	0.9999644
32	37,552,919.71	254,520.67	100.99433	-172.3	0.9999603
33	37,546,860.05	260,580.33	100.99433	-189.7	0.9999563
34	37,540,800.39	266,639.99	100.99417	-206.6	0.9999524
35	37,534,740.74	272,699.64	100.99400	-223.2	0.9999486
28° 36'	37,528,681.10	278,759.28	100.99383	-239.5	0.9999449
37	37,522,621.47	284,818.91	100.99367	-255.4	0.9999412
38	37,516,561.85	290,878.53	100.99367	-270.9	0.9999376
39	37,510,502.23	296,938.15	100.99350	-286.0	0.9999341
40	37,504,442.62	302,997.76	100.99350	-300.8	0.9999307
28° 41'	37,498,383.01	309,057.37	100.99333	-315.2	0.9999274
42	37,492,323.41	315,116.97	100.99333	-329.3	0.9999242
43	37,486,263.81	321,176.57	100.99317	-343.0	0.9999210
44	37,480,204.22	327,236.16	100.99333	-356.3	0.9999180
45	37,474,144.62	333,295.76	100.99317	-369.3	0.9999150
28° 46'	37,468,085.03	339,355.35	100.99317	-381.9	0.9999121
47	37,462,025.44	345,414.94	100.99300	-394.2	0.9999092
48	37,455,965.86	351,474.52	100.99300	-406.0	0.9999065
49	37,449,906.28	357,534.10	100.99317	-417.5	0.9999039
50	37,443,846.69	363,593.69	100.99300	-428.7	0.9999013
28° 51'	37,437,787.11	369,653.27	100.99300	-439.5	0.9998988
52	37,431,727.53	375,712.85	100.99317	-449.9	0.9998964
53	37,425,667.94	381,772.44	100.99300	-460.0	0.9998941
54	37,419,608.36	387,832.02	100.99317	-469.7	0.9998918
55	37,413,548.77	393,891.61	100.99317	-479.0	0.9998897
28° 56'	37,407,489.18	399,951.20	100.99317	-488.0	0.9998876
57	37,401,429.59	406,010.79	100.99333	-496.6	0.9998857
58	37,395,369.99	412,070.39	100.99333	-504.8	0.9998838
59	37,389,310.39	418,129.99	100.99333	-512.7	0.9998820
29° 00'	37,383,250.79	424,189.59	100.99350	-520.2	0.9998802

Lambert Projection for Texas (South Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
29° 01'	37,377,191.18	430,249.20	100.99367	-527.4	0.9998786
02	37,371,131.56	436,308.82	100.99367	-534.2	0.9998770
03	37,365,071.94	442,368.44	100.99383	-540.6	0.9998755
04	37,359,012.31	448,428.07	100.99383	-546.6	0.9998741
05	37,352,952.68	454,487.70	100.99400	-552.3	0.9998728
29° 06'	37,346,893.04	460,547.34	100.99417	-557.7	0.9998716
07	37,340,833.39	466,606.99	100.99433	-562.6	0.9998705
08	37,334,773.73	472,666.65	100.99450	-567.2	0.9998694
09	37,328,714.06	478,726.32	100.99467	-571.5	0.9998684
10	37,322,654.38	484,786.00	100.99467	-575.3	0.9998675
29° 11'	37,316,594.70	490,845.68	100.99500	-578.8	0.9998667
12	37,310,535.00	496,905.38	100.99517	-582.0	0.9998660
13	37,304,475.29	502,965.09	100.99533	-584.7	0.9998654
14	37,298,415.57	509,024.81	100.99550	-587.1	0.9998648
15	37,292,355.84	515,084.54	100.99583	-589.2	0.9998643
29° 16'	37,286,296.09	521,144.29	100.99600	-590.9	0.9998639
17	37,280,236.33	527,204.05	100.99617	-592.2	0.9998636
18	37,274,176.56	533,263.82	100.99650	-593.1	0.9998634
19	37,268,116.77	539,323.61	100.99667	-593.7	0.9998633
20	37,262,056.97	545,383.41	100.99700	-593.9	0.9998632
29° 21'	37,255,997.15	551,443.23	100.99717	-593.8	0.9998633
22	37,249,937.32	557,503.06	100.99750	-593.3	0.9998634
23	37,243,877.47	563,562.91	100.99767	-592.4	0.9998636
24	37,237,817.61	569,622.77	100.99817	-591.1	0.9998639
25	37,231,757.72	575,682.66	100.99833	-589.5	0.9998643
29° 26'	37,225,697.82	581,742.56	100.99867	-587.5	0.9998647
27	37,219,637.90	587,802.48	100.99900	-585.2	0.9998653
28	37,213,577.96	593,862.42	100.99933	-582.5	0.9998659
29	37,207,518.00	599,922.38	100.99950	-579.4	0.9998666
30	37,201,458.03	605,982.35	101.00000	-576.0	0.9998674
29° 31'	37,195,398.03	612,042.35	101.00033	-572.2	0.9998682
32	37,189,338.01	618,102.37	101.00067	-568.0	0.9998692
33	37,183,277.97	624,162.41	101.00100	-563.4	0.9998703
34	37,177,217.91	630,222.47	101.00150	-558.5	0.9998714
35	37,171,157.82	636,282.56	101.00167	-553.3	0.9998726

Lambert Projection for Texas (South Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
29° 36'	37,165,097.72	642,342.66	101.00233	-547.6	0.9998739
37	37,159,037.58	648,402.80	101.00250	-541.6	0.9998753
38	37,152,977.43	654,462.95	101.00300	-535.2	0.9998768
39	37,146,917.25	660,523.13	101.00350	-528.5	0.9998783
40	37,140,857.04	666,583.34	101.00383	-521.4	0.9998800
29° 41'	37,134,796.81	672,643.57	101.00417	-513.9	0.9998817
42	37,128,736.56	678,703.82	101.00483	-506.1	0.9998835
43	37,122,676.27	684,764.11	101.00517	-497.9	0.9998854
44	37,116,615.96	690,824.42	101.00567	-489.3	0.9998873
45	37,110,555.62	696,884.76	101.00600	-480.3	0.9998894
29° 46'	37,104,495.26	702,945.12	101.00667	-471.0	0.9998916
47	37,098,434.86	709,005.52	101.00700	-461.4	0.9998938
48	37,092,374.44	715,065.94	101.00767	-451.3	0.9998961
49	37,086,313.98	721,126.40	101.00800	-440.9	0.9998985
50	37,080,253.50	727,186.88	101.00867	-430.1	0.9999010
29° 51'	37,074,192.98	733,247.40	101.00900	-419.0	0.9999035
52	37,068,132.44	739,307.94	101.00967	-407.5	0.9999062
53	37,062,071.86	745,368.52	101.01017	-395.6	0.9999089
54	37,056,011.25	751,429.13	101.01067	-383.3	0.9999117
55	37,049,950.61	757,489.77	101.01133	-370.7	0.9999146
29° 56'	37,043,889.93	763,550.45	101.01183	-357.7	0.9999176
57	37,037,829.22	769,611.16	101.01250	-344.4	0.9999207
58	37,031,768.47	775,671.91	101.01300	-330.7	0.9999239
59	37,025,707.69	781,732.69	101.01350	-316.6	0.9999271
30° 00'	37,019,646.88	787,793.50	101.01417	-302.1	0.9999304
30° 01'	37,013,586.03	793,854.35	101.01483	-287.3	0.9999338
02	37,007,525.14	799,915.24	101.01533	-272.1	0.9999373
03	37,001,464.22	805,976.16	101.01617	-256.5	0.9999409
04	36,995,403.25	812,037.13	101.01667	-240.6	0.9999446
05	36,989,342.25	818,098.13	101.01717	-224.3	0.9999484
30° 06'	36,983,281.22	824,159.16	101.01800	-207.6	0.9999522
07	36,977,220.14	830,220.24	101.01867	-190.6	0.9999561
08	36,971,159.02	836,281.36	101.01933	-173.2	0.9999601
09	36,965,097.86	842,342.52	101.02000	-155.4	0.9999642
10	36,959,036.66	848,403.72	101.02067	-137.3	0.9999684

Lambert Projection for Texas (South Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
30° 11'	36,952,975.42	854,464.96	101.02133	-118.8	0.9999726
12	36,946,914.14	860,526.24	101.02200	-99.9	0.9999770
13	36,940,852.82	866,587.56	101.02283	-80.7	0.9999814
14	36,934,791.45	872,648.93	101.02350	-61.0	0.9999860
15	36,928,730.04	878,710.34	101.02417	-41.0	0.9999906
30° 16'	36,922,668.59	884,771.79	101.02500	-20.7	0.9999952
17	36,916,607.09	890,833.29	101.02567	0.0	1.0000000
18	36,910,545.55	896,894.83	101.02650	+21.1	1.0000048
19	36,904,483.96	902,956.42	101.02717	+42.6	1.0000098
20	36,898,422.33	909,018.05	101.02800	+64.4	1.0000148
30° 21'	36,892,360.65	915,079.73	101.02883	+86.6	1.0000199
22	36,886,298.92	921,141.46	101.02950	+109.1	1.0000251
23	36,880,237.15	927,203.23	101.03033	+132.1	1.0000304
24	36,874,175.33	933,265.05	101.03117	+155.4	1.0000358
25	36,868,113.46	939,326.92	101.03200	+179.1	1.0000412
30° 26'	36,862,051.54	945,388.84	101.03283	+203.1	1.0000468
27	36,855,989.57	951,450.81	101.03367	+227.5	1.0000524
28	36,849,927.55	957,512.83	101.03450	+252.3	1.0000581
29	36,843,865.48	963,574.90	101.03533	+277.5	1.0000639
30	36,837,803.36	969,637.02	101.03617	+303.0	1.0000698
30° 31'	36,831,741.19	975,699.19	101.03700	+328.9	1.0000757
32	36,825,678.97	981,761.41	101.03800	+355.2	1.0000818
33	36,819,616.69	987,823.69	101.03883	+381.8	1.0000879
34	36,813,554.36	993,886.02	101.03967	+408.8	1.0000941
35	36,807,491.98	999,948.40	101.04067	+436.2	1.0001004
30° 36'	36,801,429.54	1,006,010.84	101.04150	+463.9	1.0001068
37	36,795,367.05	1,012,073.33	101.04250	+492.0	1.0001133
38	36,789,304.50	1,018,135.88	101.04333	+520.5	1.0001198
39	36,783,241.90	1,024,198.48	101.04433	+549.4	1.0001265
40	36,777,179.24	1,030,261.14	101.04533	+578.6	1.0001332
30° 41'	36,771,116.52	1,036,323.86	101.04617	+608.2	1.0001400
42	36,765,053.75	1,042,386.63	101.04717	+638.2	1.0001470
43	36,758,990.92	1,048,449.46	101.04817	+668.5	1.0001539
44	36,752,928.03	1,054,512.35	101.04917	+699.2	1.0001610
45	36,746,865.08	1,060,575.30	101.05017	+730.3	1.0001682

Lambert Projection for Texas (South Central)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
30° 46'	36,740,802.07	1,066,638.31	101.05117	+761.8	1.0001754
47	36,734,739.00	1,072,701.38	101.05217	+793.6	1.0001827
48	36,728,675.87	1,078,764.51	101.05317	+825.8	1.0001901
49	36,722,612.68	1,084,827.70	101.05417	+858.4	1.0001976
50	36,716,549.43	1,090,890.95		+891.3	1.0002052

Lambert Projection for Texas (South Central)

Table II

1" of Long. = 0.48991264 of θ

Long.	θ	Long.	θ	Long.	θ
93° 00'	+2° 56' 22.1130	93° 36'	+2° 38' 43.9017	94° 11'	+2° 21' 35.0852
01	+2 55 52.7183	37	+2 38 14.5070	12	+2 21 05.6904
02	+2 55 23.3235	38	+2 37 45.1122	13	+2 20 36.2957
03	+2 54 53.9288	39	+2 37 15.7175	14	+2 20 06.9009
04	+2 54 24.5340	40	+2 36 46.3227	15	+2 19 37.5062
05	+2 53 55.1392				
93° 06'	+2 53 25.7445	93° 41'	+2 36 16.9279	94° 16'	+2 19 08.1114
07	+2 52 56.3497	42	+2 35 47.5332	17	+2 18 38.7166
08	+2 52 26.9550	43	+2 35 18.1384	18	+2 18 09.3219
09	+2 51 57.5602	44	+2 34 48.7437	19	+2 17 39.9271
10	+2 51 28.1655	45	+2 34 19.3489	20	+2 17 10.5324
93° 11'	+2 50 58.7707	93° 46'	+2 33 49.9542	94° 21'	+2 16 41.1376
12	+2 50 29.3759	47	+2 33 20.5594	22	+2 16 11.7428
13	+2 49 59.9812	48	+2 32 51.1646	23	+2 15 42.3481
14	+2 49 30.5864	49	+2 32 21.7699	24	+2 15 12.9533
15	+2 49 01.1917	50	+2 31 52.3751	25	+2 14 43.5586
93° 16'	+2 48 31.7969	93° 51'	+2 31 22.9804	94° 26'	+2 14 14.1638
17	+2 48 02.4021	52	+2 30 53.5856	27	+2 13 44.7691
18	+2 47 33.0074	53	+2 30 24.1908	28	+2 13 15.3743
19	+2 47 03.6126	54	+2 29 54.7961	29	+2 12 45.9795
20	+2 46 34.2179	55	+2 29 25.4013	30	+2 12 16.5848
93° 21'	+2 46 04.8231	93° 56'	+2 28 56.0066	94° 31'	+2 11 47.1900
22	+2 45 35.4284	57	+2 28 26.6118	32	+2 11 17.7953
23	+2 45 06.0336	58	+2 27 57.2171	33	+2 10 48.4005
24	+2 44 36.6388	59	+2 27 27.8223	34	+2 10 19.0057
25	+2 44 07.2441	94° 00'	+2 26 58.4275	35	+2 09 49.6110
93° 26'	+2 43 37.8493	94° 01'	+2 26 29.0328	94° 36'	+2 09 20.2162
27	+2 43 08.4546	02	+2 25 59.6380	37	+2 08 50.8215
28	+2 42 39.0598	03	+2 25 30.2433	38	+2 08 21.4267
29	+2 42 09.6650	04	+2 25 00.8485	39	+2 07 52.0320
30	+2 41 40.2703	05	+2 24 31.4537	40	+2 07 22.6372
93° 31'	+2 41 10.8755	94° 06'	+2 24 02.0590	94° 41'	+2 06 53.2424
32	+2 40 41.4808	07	+2 23 32.6642	42	+2 06 23.8477
33	+2 40 12.0860	08	+2 23 03.2695	43	+2 05 54.4529
34	+2 39 42.6913	09	+2 22 33.8747	44	+2 05 25.0582
35	+2 39 13.2965	10	+2 22 04.4800	45	+2 04 55.6634

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0"48991264 of θ

Long.	θ	Long.	θ	Long.	θ			
94° 46'	+2° 04'	26.2686	95° 21'	+1° 47'	17.4521	95° 56'	+1° 30'	08.6356
47	+2 03	56.8739	22	+1 46	48.0573	57	+1 29	39.2408
48	+2 03	27.4791	23	+1 46	18.6626	58	+1 29	09.8460
49	+2 02	58.0844	24	+1 45	49.2678	59	+1 28	40.4513
50	+2 02	28.6896	25	+1 45	19.8731	96° 00'	+1 28	11.0565
94° 51'	+2 01	59.2949	95° 26'	+1 44	50.4783	96° 01'	+1 27	41.6618
52	+2 01	29.9001	27	+1 44	21.0835	02	+1 27	12.2670
53	+2 01	00.5053	28	+1 43	51.6888	03	+1 26	42.8722
54	+2 00	31.1106	29	+1 43	22.2940	04	+1 26	13.4775
55	+2 00	01.7158	30	+1 42	52.8993	05	+1 25	44.0827
94° 56'	+1 59	32.3211	95° 31'	+1 42	23.5045	96° 06'	+1 25	14.6880
57	+1 59	02.9263	32	+1 41	54.1098	07	+1 24	45.2932
58	+1 58	33.5315	33	+1 41	24.7150	08	+1 24	15.8985
59	+1 58	04.1368	34	+1 40	55.3202	09	+1 23	46.5037
95° 00'	+1 57	34.7420	35	+1 40	25.9255	10	+1 23	17.1089
95° 01'	+1 57	05.3473	95° 36'	+1 39	56.5307	96° 11'	+1 22	47.7142
02	+1 56	35.9525	37	+1 39	27.1360	12	+1 22	18.3194
03	+1 56	06.5578	38	+1 38	57.7412	13	+1 21	48.9247
04	+1 55	37.1630	39	+1 38	28.3464	14	+1 21	19.5299
05	+1 55	07.7682	40	+1 37	58.9517	15	+1 20	50.1351
95° 06'	+1 54	38.3735	95° 41'	+1 37	29.5569	96° 16'	+1 20	20.7404
07	+1 54	08.9787	42	+1 37	00.1622	17	+1 19	51.3456
08	+1 53	39.5840	43	+1 36	30.7674	18	+1 19	21.9509
09	+1 53	10.1892	44	+1 36	01.3727	19	+1 18	52.5561
10	+1 52	40.7944	45	+1 35	31.9779	20	+1 18	23.1614
95° 11'	+1 52	11.3997	95° 46'	+1 35	02.5831	96° 21'	+1 17	53.7666
12	+1 51	42.0049	47	+1 34	33.1884	22	+1 17	24.3718
13	+1 51	12.6102	48	+1 34	03.7936	23	+1 16	54.9771
14	+1 50	43.2154	49	+1 33	34.3989	24	+1 16	25.5823
15	+1 50	13.8207	50	+1 33	05.0041	25	+1 15	56.1876
95° 16'	+1 49	44.4259	95° 51'	+1 32	35.6093	96° 26'	+1 15	26.7928
17	+1 49	15.0311	52	+1 32	06.2146	27	+1 14	57.3980
18	+1 48	45.6364	53	+1 31	36.8198	28	+1 14	28.0033
19	+1 48	16.2416	54	+1 31	07.4251	29	+1 13	58.6085
20	+1 47	46.8469	55	+1 30	38.0303	30	+1 13	29.2138

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0.48991264 of θ

Long.	θ	Long.	θ	Long.	θ
96° 31'	+1° 12' 59.8190	97° 06'	+0° 55' 51.0025	97° 41'	+0° 38' 42.1859
32	+1 12 30.4243	07	+0 55 21.6077	42	+0 38 12.7912
33	+1 12 01.0295	08	+0 54 52.2129	43	+0 37 43.3964
34	+1 11 31.6347	09	+0 54 22.8182	44	+0 37 14.0016
35	+1 11 02.2400	10	+0 53 53.4234	45	+0 36 44.0069
96° 36'	+1 10 32.8452	97° 11'	+0 53 24.0287	97° 46'	+0 36 15.2121
37	+1 10 03.4505	12	+0 52 54.6339	47	+0 35 45.8174
38	+1 09 34.0557	13	+0 52 25.2392	48	+0 35 16.4226
39	+1 09 04.6609	14	+0 51 55.8444	49	+0 34 47.0278
40	+1 08 35.2662	15	+0 51 26.4496	50	+0 34 17.6331
96° 41'	+1 08 05.8714	97° 16'	+0 50 57.0549	97° 51'	+0 33 48.2383
42	+1 07 36.4767	17	+0 50 27.6601	52	+0 33 18.8436
43	+1 07 07.0819	18	+0 49 58.2654	53	+0 32 49.4488
44	+1 06 37.6871	19	+0 49 28.8706	54	+0 32 20.0541
45	+1 06 08.2924	20	+0 48 59.4758	55	+0 31 50.6593
96° 46'	+1 05 38.8976	97° 21'	+0 48 30.0811	97° 56'	+0 31 21.2645
47	+1 05 09.5029	22	+0 48 00.6863	57	+0 30 51.8698
48	+1 04 40.1081	23	+0 47 31.2916	58	+0 30 22.4750
49	+1 04 10.7134	24	+0 47 01.8968	59	+0 29 53.0803
50	+1 03 41.3186	25	+0 46 32.5021	98° 00'	+0 29 23.6855
96° 51'	+1 03 11.9238	97° 26'	+0 46 03.1073	98° 01'	+0 28 54.2907
52	+1 02 42.5291	27	+0 45 33.7125	02	+0 28 24.8960
53	+1 02 13.1343	28	+0 45 04.3178	03	+0 27 55.5012
54	+1 01 43.7396	29	+0 44 34.9230	04	+0 27 26.1065
55	+1 01 14.3448	30	+0 44 05.5283	05	+0 26 56.7117
96° 56'	+1 00 44.9500	97° 31'	+0 43 36.1335	98° 06'	+0 26 27.3170
57	+1 00 15.5553	32	+0 43 06.7387	07	+0 25 57.9222
58	+0 59 46.1605	33	+0 42 37.3440	08	+0 25 28.5274
59	+0 59 16.7658	34	+0 42 07.9492	09	+0 24 59.1327
97° 00'	+0 58 47.3710	35	+0 41 38.5545	10	+0 24 29.7379
97° 01'	+0 58 17.9763	97° 36'	+0 41 09.1597	98° 11'	+0 24 00.3432
02	+0 57 48.5815	37	+0 40 39.7650	12	+0 23 30.9484
03	+0 57 19.1867	38	+0 40 10.3702	13	+0 23 01.5536
04	+0 56 49.7920	39	+0 39 40.9754	14	+0 22 32.1589
05	+0 56 20.3972	40	+0 39 11.5807	15	+0 22 02.7641

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0.48991264 of θ

Long.	θ	Long.	θ	Long.	θ
98° 16'	+0° 21' 33.3694	98° 51'	+0° 04' 24.5528	99° 26'	-0° 12' 44.2637
17	+0 21 03.9746	52	+0 03 55.1581	27	-0 13 13.6585
18	+0 20 34.5799	53	+0 03 25.7633	28	-0 13 43.0532
19	+0 20 05.1851	54	+0 02 56.3686	29	-0 14 12.4480
20	+0 19 35.7903	55	+0 02 26.9738	30	-0 14 41.8428
98° 21'	+0 19 06.3956	98° 56'	+0 01 57.5790	99° 31'	-0 15 11.2375
22	+0 18 37.0008	57	+0 01 28.1843	32	-0 15 40.6323
23	+0 18 07.6061	58	+0 00 58.7895	33	-0 16 10.0270
24	+0 17 38.2113	59	+0 00 29.3948	34	-0 16 39.4218
25	+0 17 08.8165	99° 00'	0 00 00.0000	35	-0 17 08.8165
98° 26'	+0 16 39.4218	99° 01'	-0 00 29.3948	99° 36'	-0 17 38.2113
27	+0 16 10.0270	02	-0 00 58.7895	37	-0 18 07.6061
28	+0 15 40.6323	03	-0 01 28.1843	38	-0 18 37.0008
29	+0 15 11.2375	04	-0 01 57.5790	39	-0 19 06.3956
30	+0 14 41.8428	05	-0 02 26.9738	40	-0 19 35.7903
98° 31'	+0 14 12.4480	99° 06'	-0 02 56.3686	99° 41'	-0 20 05.1851
32	+0 13 43.0532	07	-0 03 25.7633	42	-0 20 34.5799
33	+0 13 13.6585	08	-0 03 55.1581	43	-0 21 03.9746
34	+0 12 44.2637	09	-0 04 24.5528	44	-0 21 33.3694
35	+0 12 14.8690	10	-0 04 53.9476	45	-0 22 02.7641
98° 36'	+0 11 45.4742	99° 11'	-0 05 23.3423	99° 46'	-0 22 32.1589
37	+0 11 16.0794	12	-0 05 52.7371	47	-0 23 01.5536
38	+0 10 46.6847	13	-0 06 22.1319	48	-0 23 30.9484
39	+0 10 17.2899	14	-0 06 51.5266	49	-0 24 00.3432
40	+0 09 47.8952	15	-0 07 20.9214	50	-0 24 29.7379
98° 41'	+0 09 18.5004	99° 16'	-0 07 50.3161	99° 51'	-0 24 59.1327
42	+0 08 49.1057	17	-0 08 19.7109	52	-0 25 28.5274
43	+0 08 19.7109	18	-0 08 49.1057	53	-0 25 57.9222
44	+0 07 50.3161	19	-0 09 18.5004	54	-0 26 27.3170
45	+0 07 20.9214	20	-0 09 47.8952	55	-0 26 56.7117
98° 46'	+0 06 51.5266	99° 21'	-0 10 17.2899	99° 56'	-0 27 26.1065
47	+0 06 22.1319	22	-0 10 46.6847	57	-0 27 55.5012
48	+0 05 52.7371	23	-0 11 16.0794	58	-0 28 24.8960
49	+0 05 23.3423	24	-0 11 45.4742	59	-0 28 54.2907
50	+0 04 53.9476	25	-0 12 14.8690	100° 00'	-0 29 23.6855

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0.48991264 of θ

Long.	θ			Long.	θ			Long.	θ		
100° 01'	-0° 29'	53.0803		100° 36'	-0° 47'	01.8968	101° 11'	-1° 04'	10.7134		
02	-0 30	22.4750		37	-0 47	31.2916	12	-1 04	40.1081		
03	-0 30	51.8698		38	-0 48	00.6863	13	-1 05	09.5029		
04	-0 31	21.2645		39	-0 48	30.0811	14	-1 05	38.8976		
05	-0 31	50.6593		40	-0 48	59.4758	15	-1 06	08.2924		
100° 06'	-0 32	20.0541		100° 41'	-0 49	28.8706	101° 16'	-1 06	37.6871		
07	-0 32	49.4488		42	-0 49	58.2654	17	-1 07	07.0819		
08	-0 33	18.8436		43	-0 50	27.6601	18	-1 07	36.4767		
09	-0 33	48.2383		44	-0 50	57.0549	19	-1 08	05.8714		
10	-0 34	17.6331		45	-0 51	26.4496	20	-1 08	35.2662		
100° 11'	-0 34	47.0278		100° 46'	-0 51	55.8444	101° 21'	-1 09	04.6609		
12	-0 35	16.4226		47	-0 52	25.2392	22	-1 09	34.0557		
13	-0 35	45.8174		48	-0 52	54.6339	23	-1 10	03.4505		
14	-0 36	15.2121		49	-0 53	24.0287	24	-1 10	32.8452		
15	-0 36	44.6069		50	-0 53	53.4234	25	-1 11	02.2400		
100° 16'	-0 37	14.0016		100° 51'	-0 54	22.8182	101° 26'	-1 11	31.6347		
17	-0 37	43.3964		52	-0 54	52.2129	27	-1 12	01.0295		
18	-0 38	12.7912		53	-0 55	21.6077	28	-1 12	30.4243		
19	-0 38	42.1859		54	-0 55	51.0025	29	-1 12	59.8190		
20	-0 39	11.5807		55	-0 56	20.3972	30	-1 13	29.2138		
100° 21'	-0 39	40.9754		100° 56'	-0 56	49.7920	101° 31'	-1 13	58.6085		
22	-0 40	10.3702		57	-0 57	19.1867	32	-1 14	28.0033		
23	-0 40	39.7650		58	-0 57	48.5815	33	-1 14	57.3980		
24	-0 41	09.1597		59	-0 58	17.9763	34	-1 15	26.7928		
25	-0 41	38.5545		101° 00'	-0 58	47.3710	35	-1 15	56.1876		
100° 26'	-0 42	07.9492		101° 01'	-0 59	16.7658	101° 36'	-1 16	25.5823		
27	-0 42	37.3440		02	-0 59	46.1605	37	-1 16	54.9771		
28	-0 43	06.7387		03	-1 00	15.5553	38	-1 17	24.3718		
29	-0 43	36.1335		04	-1 00	44.9500	39	-1 17	53.7666		
30	-0 44	05.5283		05	-1 01	14.3448	40	-1 18	23.1614		
100° 31'	-0 44	34.9230		101° 06'	-1 01	43.7396	101° 41'	-1 18	52.5561		
32	-0 45	04.3178		07	-1 02	13.1343	42	-1 19	21.9509		
33	-0 45	33.7125		08	-1 02	42.5291	43	-1 19	51.3456		
34	-0 46	03.1073		09	-1 03	11.9238	44	-1 20	20.7404		
35	-0 46	32.5021		10	-1 03	41.3186	45	-1 20	50.1351		

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0.48991264 of θ

Long.	θ			Long.	θ			Long.	θ		
101° 46'	-1°	21'	19.5299	102° 21'	-1°	38'	28.3464	102° 56'	-1°	55'	37.1630
47	-1	21	48.9247	22	-1	38	57.7412	57	-1	56	06.5578
48	-1	22	18.3194	23	-1	39	27.1360	58	-1	56	35.9525
49	-1	22	47.7142	24	-1	39	56.5307	59	-1	57	05.3473
50	-1	23	17.1089	25	-1	40	25.9255	103° 00'	-1	57	34.7420
101° 51'	-1	23	46.5037	102° 26'	-1	40	55.3202	103° 01'	-1	58	04.1368
52	-1	24	15.8985	27	-1	41	24.7150	02	-1	58	33.5315
53	-1	24	45.2932	28	-1	41	54.1098	03	-1	59	02.9263
54	-1	25	14.6880	29	-1	42	23.5045	04	-1	59	32.3211
55	-1	25	44.0827	30	-1	42	52.8993	05	-2	00	01.7158
101° 56'	-1	26	13.4775	102° 31'	-1	43	22.2940	103° 06'	-2	00	31.1106
57	-1	26	42.8722	32	-1	43	51.6888	07	-2	01	00.5053
58	-1	27	12.2670	33	-1	44	21.0835	08	-2	01	29.9001
59	-1	27	41.6618	34	-1	44	50.4783	09	-2	01	59.2949
102° 00'	-1	28	11.0565	35	-1	45	19.8731	10	-2	02	28.6896
102° 01'	-1	28	40.4513	102° 36'	-1	45	49.2678	103° 11'	-2	02	58.0844
02	-1	29	09.8460	37	-1	46	18.6626	12	-2	03	27.4791
03	-1	29	39.2408	38	-1	46	48.0573	13	-2	03	56.8739
04	-1	30	08.6356	39	-1	47	17.4521	14	-2	04	26.2686
05	-1	30	38.0303	40	-1	47	46.8469	15	-2	04	55.6634
102° 06'	-1	31	07.4251	102° 41'	-1	48	16.2416	103° 16'	-2	05	25.0582
07	-1	31	36.8198	42	-1	48	45.6364	17	-2	05	54.4529
08	-1	32	06.2146	43	-1	49	15.0311	18	-2	06	23.8477
09	-1	32	35.6093	44	-1	49	44.4259	19	-2	06	53.2424
10	-1	33	05.0041	45	-1	50	13.8207	20	-2	07	22.6372
102° 11'	-1	33	34.3989	102° 46'	-1	50	43.2154	103° 21'	-2	07	52.0320
12	-1	34	03.7936	47	-1	51	12.6102	22	-2	08	21.4267
13	-1	34	33.1884	48	-1	51	42.0049	23	-2	08	50.8215
14	-1	35	02.5831	49	-1	52	11.3997	24	-2	09	20.2162
15	-1	35	31.9779	50	-1	52	40.7944	25	-2	09	49.6110
102° 16'	-1	36	01.3727	102° 51'	-1	53	10.1892	103° 26'	-2	10	19.0057
17	-1	36	30.7674	52	-1	53	39.5840	27	-2	10	48.4005
18	-1	37	00.1622	53	-1	54	08.9787	28	-2	11	17.7953
19	-1	37	29.5569	54	-1	54	38.3735	29	-2	11	47.1900
20	-1	37	58.9517	55	-1	55	07.7682	30	-2	12	16.5848

Lambert Projection for Texas (South Central)

Table II (Cont'd)

1" of Long. = 0.48991264 of θ

Long.	θ			Long.	θ			Long.	θ		
103° 31'	-2°	12'	45.9795	104° 06'	-2°	29'	54.7961	104° 41'	-2°	47'	03.6126
32	-2	13	15.3743	07	-2	30	24.1908	42	-2	47	33.0074
33	-2	13	44.7691	08	-2	30	53.5856	43	-2	48	02.4021
34	-2	14	14.1638	09	-2	31	22.9804	44	-2	48	31.7969
35	-2	14	43.5586	10	-2	31	52.3751	45	-2	49	01.1917
103° 36'	-2	15	12.9533	104° 11'	-2	32	21.7699	104° 46'	-2	49	30.5864
37	-2	15	42.3481	12	-2	32	51.1646	47	-2	49	59.9812
38	-2	16	11.7428	13	-2	33	20.5594	48	-2	50	29.3759
39	-2	16	41.1376	14	-2	33	49.9542	49	-2	50	58.7707
40	-2	17	10.5324	15	-2	34	19.3489	50	-2	51	28.1655
103° 41'	-2	17	39.9271	104° 16'	-2	34	48.7437	104° 51'	-2	51	57.5602
42	-2	18	09.3219	17	-2	35	18.1384	52	-2	52	26.9550
43	-2	18	38.7166	18	-2	35	47.5332	53	-2	52	56.3497
44	-2	19	08.1114	19	-2	36	16.9279	54	-2	53	25.7445
45	-2	19	37.5062	20	-2	36	46.3227	55	-2	53	55.1392
103° 46'	-2	20	06.9009	104° 21'	-2	37	15.7175	104° 56'	-2	54	24.5340
47	-2	20	36.2957	22	-2	37	45.1122	57	-2	54	53.9288
48	-2	21	05.6904	23	-2	38	14.5070	58	-2	55	23.3235
49	-2	21	35.0852	24	-2	38	43.9017	59	-2	55	52.7183
50	-2	22	04.4800	25	-2	39	13.2965	105° 00'	-2	56	22.1130
103° 51'	-2	22	33.8747	104° 26'	-2	39	42.6913				
52	-2	23	03.2695	27	-2	40	12.0860				
53	-2	23	32.6642	28	-2	40	41.4808				
54	-2	24	02.0590	29	-2	41	10.8755				
55	-2	24	31.4537	30	-2	41	40.2703				
103° 56'	-2	25	00.8485	104° 31'	-2	42	09.6650				
57	-2	25	30.2433	32	-2	42	39.0598				
58	-2	25	59.6380	33	-2	43	08.4546				
59	-2	26	29.0328	34	-2	43	37.8493				
104° 00'	-2	26	58.4275	35	-2	44	07.2441				
104° 01'	-2	27	27.8223	104° 36'	-2	44	36.6388				
02	-2	27	57.2171	37	-2	45	06.0336				
03	-2	28	26.6118	38	-2	45	35.4284				
04	-2	28	56.0066	39	-2	46	04.8231				
05	-2	29	25.4013	40	-2	46	34.2179				

Lambert Projection for Texas (South)

Table I

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
25° 40'	41,576,762.39	0	100.97317	+709.7	1.0001634
41	41,570,704.00	6,058.39	100.97267	+680.8	1.0001568
42	41,564,645.64	12,116.75	100.97217	+652.3	1.0001502
43	41,558,587.31	18,175.08	100.97183	+624.1	1.0001437
44	41,552,529.00	24,233.39	100.97150	+596.3	1.0001373
45	41,546,470.71	30,291.68	100.97100	+568.8	1.0001310
25° 46'	41,540,412.45	36,349.94	100.97067	+541.7	1.0001247
47	41,534,354.21	42,408.18	100.97033	+515.0	1.0001186
48	41,528,295.99	48,466.40	100.96983	+488.6	1.0001125
49	41,522,237.80	54,524.59	100.96950	+462.6	1.0001065
50	41,516,179.63	60,582.76	100.96917	+437.0	1.0001006
25° 51'	41,510,121.48	66,640.91	100.96883	+411.7	1.0000948
52	41,504,063.35	72,699.04	100.96850	+386.7	1.0000890
53	41,498,005.24	78,757.15	100.96800	+362.2	1.0000834
54	41,491,947.16	84,815.23	100.96783	+338.0	1.0000778
55	41,485,889.09	90,873.30	100.96750	+314.1	1.0000723
25° 56'	41,479,831.04	96,931.35	100.96733	+290.6	1.0000669
57	41,473,773.00	102,989.39	100.96683	+267.5	1.0000616
58	41,467,714.99	109,047.40	100.96650	+244.8	1.0000564
59	41,461,657.00	115,105.39	100.96633	+222.4	1.0000512
26° 00'	41,455,599.02	121,163.37	100.96617	+200.4	1.0000461
26° 01'	41,449,541.05	127,221.34	100.96567	+178.7	1.0000411
02	41,443,483.11	133,279.28	100.96550	+157.4	1.0000362
03	41,437,425.18	139,337.21	100.96533	+136.4	1.0000314
04	41,431,367.26	145,395.13	100.96500	+115.8	1.0000267
05	41,425,309.36	151,453.03	100.96483	+95.6	1.0000220
26° 06'	41,419,251.47	157,510.92	100.96467	+75.7	1.0000174
07	41,413,193.59	163,568.80	100.96433	+56.2	1.0000129
08	41,407,135.73	169,626.66	100.96417	+37.1	1.0000085
09	41,401,077.88	175,684.51	100.96400	+18.3	1.0000042
10	41,395,020.04	181,742.35	100.96383	0.0	1.0000000
26° 11'	41,388,962.21	187,800.18	100.96367	-18.1	0.9999958
12	41,382,904.39	193,858.00	100.96333	-35.8	0.9999918
13	41,376,846.59	199,915.80	100.96333	-53.1	0.9999878
14	41,370,788.79	205,973.60	100.96317	-70.1	0.9999839
15	41,364,731.00	212,031.39	100.96300	-86.7	0.9999800

Lambert Projection for Texas (South)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
26° 16'	41,358,673.22	218,089.17	100.96283	-102.9	0.9999763
17	41,352,615.45	224,146.94	100.96267	-118.8	0.9999726
18	41,346,557.69	230,204.70	100.96267	-134.3	0.9999691
19	41,340,499.93	236,262.46	100.96250	-149.4	0.9999656
20	41,334,442.18	242,320.21	100.96233	-164.2	0.9999622
26° 21'	41,328,384.44	248,377.95	100.96233	-178.6	0.9999589
22	41,322,326.70	254,435.69	100.96217	-192.6	0.9999557
23	41,316,268.97	260,493.42	100.96217	-206.3	0.9999525
24	41,310,211.24	266,551.15	100.96200	-219.7	0.9999494
25	41,304,153.52	272,608.87	100.96200	-232.6	0.9999464
26° 26'	41,298,095.80	278,666.59	100.96200	-245.2	0.9999435
27	41,292,038.08	284,724.31	100.96183	-257.5	0.9999407
28	41,285,980.37	290,782.02	100.96200	-269.3	0.9999380
29	41,279,922.65	296,839.74	100.96183	-280.8	0.9999353
30	41,273,864.94	302,897.45	100.96183	-292.0	0.9999328
26° 31'	41,267,807.23	308,955.16	100.96183	-302.8	0.9999303
32	41,261,749.52	315,012.87	100.96183	-313.2	0.9999279
33	41,255,691.81	321,070.58	100.96183	-323.2	0.9999256
34	41,249,634.10	327,128.29	100.96183	-332.9	0.9999233
35	41,243,576.39	333,186.00	100.96200	-342.2	0.9999212
26° 36'	41,237,518.67	339,243.72	100.96183	-351.2	0.9999191
37	41,231,460.96	345,301.43	100.96200	-359.8	0.9999172
38	41,225,403.24	351,359.15	100.96200	-368.0	0.9999153
39	41,219,345.52	357,416.87	100.96217	-375.9	0.9999134
40	41,213,287.79	363,474.60	100.96200	-383.4	0.9999117
26° 41'	41,207,230.07	369,532.32	100.96233	-390.5	0.9999101
42	41,201,172.33	375,590.06	100.96233	-397.3	0.9999085
43	41,195,114.59	381,647.80	100.96233	-403.7	0.9999070
44	41,189,056.85	387,705.54	100.96250	-409.8	0.9999056
45	41,182,999.10	393,763.29	100.96267	-415.5	0.9999043
26° 46'	41,176,941.34	399,821.05	100.96267	-420.8	0.9999031
47	41,170,883.58	405,878.81	100.96283	-425.7	0.9999020
48	41,164,825.81	411,936.58	100.96317	-430.3	0.9999009
49	41,158,768.02	417,994.37	100.96317	-434.5	0.9999000
50	41,152,710.23	424,052.16	100.96317	-438.4	0.9998991

Lambert Projection for Texas (South)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
26° 51'	41,146,652.44	430,109.95	100.96350	-441.9	0.9998982
52	41,140,594.63	436,167.76	100.96367	-445.0	0.9998975
53	41,134,536.81	442,225.58	100.96383	-447.8	0.9998969
54	41,128,478.98	448,283.41	100.96400	-450.2	0.9998963
55	41,122,421.14	454,341.25	100.96417	-452.2	0.9998959
26° 56'	41,116,363.29	460,399.10	100.96450	-453.9	0.9998955
57	41,110,305.42	466,456.97	100.96467	-455.2	0.9998952
58	41,104,247.54	472,514.85	100.96483	-456.1	0.9998950
59	41,098,189.65	478,572.74	100.96517	-456.7	0.9998948
27° 00'	41,092,131.74	484,630.65	100.96533	-456.9	0.9998948
27° 01'	41,086,073.82	490,688.57	100.96550	-456.7	0.9998948
02	41,080,015.89	496,746.50	100.96583	-456.2	0.9998950
03	41,073,957.94	502,804.45	100.96617	-455.3	0.9998952
04	41,067,899.97	508,862.42	100.96633	-454.1	0.9998954
05	41,061,841.99	514,920.40	100.96667	-452.5	0.9998958
27° 06'	41,055,783.99	520,978.40	100.96700	-450.5	0.9998963
07	41,049,725.97	527,036.42	100.96733	-448.1	0.9998968
08	41,043,667.93	533,094.46	100.96750	-445.4	0.9998974
09	41,037,609.88	539,152.51	100.96783	-442.3	0.9998982
10	41,031,551.81	545,210.58	100.96833	-438.8	0.9998990
27° 11'	41,025,493.71	551,268.68	100.96850	-435.0	0.9998998
12	41,019,435.60	557,326.79	100.96883	-430.8	0.9999008
13	41,013,377.47	563,384.92	100.96933	-426.3	0.9999018
14	41,007,319.31	569,443.08	100.96967	-421.4	0.9999030
15	41,001,261.13	575,501.26	100.97000	-416.1	0.9999042
27° 16'	40,995,202.93	581,559.46	100.97033	-410.4	0.9999055
17	40,989,144.71	587,617.68	100.97067	-404.4	0.9999069
18	40,983,086.47	593,675.92	100.97117	-398.0	0.9999084
19	40,977,028.20	599,734.19	100.97150	-391.3	0.9999099
20	40,970,969.91	605,792.48	100.97200	-384.2	0.9999115
27° 21'	40,964,911.59	611,850.80	100.97233	-376.7	0.9999133
22	40,958,853.25	617,909.14	100.97283	-368.9	0.9999151
23	40,952,794.88	623,967.51	100.97333	-360.6	0.9999170
24	40,946,736.48	630,025.91	100.97367	-352.1	0.9999189
25	40,940,678.06	636,084.33	100.97417	-343.1	0.9999210

Lambert Projection for Texas (South)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
27° 26'	40,934,619.61	642,142.78	100.97467	-333.8	0.9999231
27	40,928,561.13	648,201.26	100.97517	-324.1	0.9999254
28	40,922,502.62	654,259.77	100.97550	-314.1	0.9999277
29	40,916,444.09	660,318.30	100.97600	-303.6	0.9999301
30	40,910,385.53	666,376.86	100.97667	-292.9	0.9999326
27° 31'	40,904,326.93	672,435.46	100.97700	-281.7	0.9999351
32	40,898,268.31	678,494.08	100.97767	-270.2	0.9999378
33	40,892,209.65	684,552.74	100.97817	-258.3	0.9999405
34	40,886,150.96	690,611.43	100.97867	-246.0	0.9999434
35	40,880,092.24	696,670.15	100.97917	-233.4	0.9999463
27° 36'	40,874,033.49	702,728.90	100.97967	-220.5	0.9999492
37	40,867,974.71	708,787.68	100.98033	-207.1	0.9999523
38	40,861,915.89	714,846.50	100.98083	-193.4	0.9999555
39	40,855,857.04	720,905.35	100.98150	-179.3	0.9999587
40	40,849,798.15	726,964.24	100.98200	-164.8	0.9999621
27° 41'	40,843,739.23	733,023.16	100.98267	-150.0	0.9999655
42	40,837,680.27	739,082.12	100.98333	-134.8	0.9999690
43	40,831,621.27	745,141.12	100.98383	-119.2	0.9999726
44	40,825,562.24	751,200.15	100.98450	-103.3	0.9999762
45	40,819,503.17	757,259.22	100.98500	-87.0	0.9999800
27° 46'	40,813,444.07	763,318.32	100.98583	-70.3	0.9999838
47	40,807,384.92	769,377.47	100.98633	-53.3	0.9999877
48	40,801,325.74	775,436.65	100.98700	-35.9	0.9999917
49	40,795,266.52	781,495.87	100.98783	-18.1	0.9999958
50	40,789,207.25	787,555.14	100.98833	0.0	1.0000000
27° 51'	40,783,147.95	793,614.44	100.98900	+18.5	1.0000043
52	40,777,088.61	799,673.78	100.98983	+37.4	1.0000086
53	40,771,029.22	805,733.17	100.99050	+56.6	1.0000130
54	40,764,969.79	811,792.60	100.99117	+76.2	1.0000175
55	40,758,910.32	817,852.07	100.99183	+96.2	1.0000222
27° 56'	40,752,850.81	823,911.58	100.99250	+116.6	1.0000268
57	40,746,791.26	829,971.13	100.99333	+137.3	1.0000316
58	40,740,731.66	836,030.73	100.99417	+158.4	1.0000365
59	40,734,672.01	842,090.38	100.99483	+179.8	1.0000414
28° 00'	40,728,612.32	848,150.07	100.99550	+201.7	1.0000464

Lambert Projection for Texas (South)

Table I (Cont'd)

Lat.	R (feet)	Y' y value on central meridian (feet)	Tabular difference for 1 sec. of lat. (feet)	Scale in units of 7th place of logs	Scale expressed as a ratio
28° 01'	40,722,552.59	854,209.80	100.99633	+223.9	1.0000516
02	40,716,492.81	860,269.58	100.99717	+246.4	1.0000567
03	40,710,432.98	866,329.41	100.99800	+269.3	1.0000620
04	40,704,373.10	872,389.29	100.99867	+292.6	1.0000674
05	40,698,313.18	878,449.21	100.99950	+316.3	1.0000728
28° 06'	40,692,253.21	884,509.18	101.00033	+340.4	1.0000784
07	40,686,193.19	890,569.20	101.00117	+364.8	1.0000840
08	40,680,133.12	896,629.27	101.00183	+389.6	1.0000897
09	40,674,073.01	902,689.38	101.00283	+414.7	1.0000955
10	40,668,012.84	908,749.55	101.00367	+440.2	1.0001014
28° 11'	40,661,952.62	914,809.77	101.00450	+466.1	1.0001073
12	40,655,892.35	920,870.04	101.00550	+492.4	1.0001134
13	40,649,832.02	926,930.37	101.00617	+519.0	1.0001195
14	40,643,771.65	932,990.74	101.00717	+546.0	1.0001257
15	40,637,711.22	939,051.17	101.00800	+573.3	1.0001320
28° 16'	40,631,650.74	945,111.65	101.00900	+601.1	1.0001384
17	40,625,590.20	951,172.19	101.00983	+629.2	1.0001449
18	40,619,529.61	957,232.78	101.01067	+657.6	1.0001514
19	40,613,468.97	963,293.42	101.01167	+686.5	1.0001581
20	40,607,408.27	969,354.12		+715.7	1.0001648

Lambert Projection for Texas (South)

Table II

1" of Long. = 0.45400685

Long.	θ		Long.	θ		Long.	θ				
96° 30'	+0°	54'	28.8493	97° 06'	+0°	38'	08.1945	97° 41'	+0°	22'	14.7801
31	+0	54	01.6089	07	+0	37	40.9541	42	+0	21	47.5397
32	+0	53	34.3685	08	+0	37	13.7137	43	+0	21	20.2993
33	+0	53	07.1281	09	+0	36	46.4733	44	+0	20	53.0589
34	+0	52	39.8877	10	+0	36	19.2329	45	+0	20	25.8185
35	+0	52	12.6473								
96° 36'	+0	51	45.4069	97° 11'	+0	35	51.9925	97° 46'	+0	19	58.5781
37	+0	51	18.1665	12	+0	35	24.7521	47	+0	19	31.3377
38	+0	50	50.9260	13	+0	34	57.5117	48	+0	19	04.0973
39	+0	50	23.6856	14	+0	34	30.2712	49	+0	18	36.8569
40	+0	49	56.4452	15	+0	34	03.0308	50	+0	18	09.6164
96° 41'	+0	49	29.2048	97° 16'	+0	33	35.7904	97° 51'	+0	17	42.3760
42	+0	49	01.9644	17	+0	33	08.5500	52	+0	17	15.1356
43	+0	48	34.7240	18	+0	32	41.3096	53	+0	16	47.8952
44	+0	48	07.4836	19	+0	32	14.0692	54	+0	16	20.6548
45	+0	47	40.2432	20	+0	31	46.8288	55	+0	15	53.4144
96° 46'	+0	47	13.0028	97° 21'	+0	31	19.5884	97° 56'	+0	15	26.1740
47	+0	46	45.7623	22	+0	30	52.3480	57	+0	14	58.9336
48	+0	46	18.5219	23	+0	30	25.1075	58	+0	14	31.6932
49	+0	45	51.2815	24	+0	29	57.8671	59	+0	14	04.4527
50	+0	45	24.0411	25	+0	29	30.6267	98° 00'	+0	13	37.2123
96° 51'	+0	44	56.8007	97° 26'	+0	29	03.3863	98° 01'	+0	13	09.9719
52	+0	44	29.5603	27	+0	28	36.1459	02	+0	12	42.7315
53	+0	44	02.3199	28	+0	28	08.9055	03	+0	12	15.4911
54	+0	43	35.0795	29	+0	27	41.6651	04	+0	11	48.2507
55	+0	43	07.8391	30	+0	27	14.4247	05	+0	11	21.0103
96° 56'	+0	42	40.5986	97° 31'	+0	26	47.1843	98° 06'	+0	10	53.7699
57	+0	42	13.3582	32	+0	26	19.9438	07	+0	10	26.5295
58	+0	41	46.1178	33	+0	25	52.7034	08	+0	09	59.2890
59	+0	41	18.8774	34	+0	25	25.4630	09	+0	09	32.0486
97° 00'	+0	40	51.6370	35	+0	24	58.2226	10	+0	09	04.8082
97° 01'	+0	40	24.3966	97° 36'	+0	24	30.9822	98° 11'	+0	08	37.5678
02	+0	39	57.1562	37	+0	24	03.7418	12	+0	08	10.3274
03	+0	39	29.9158	38	+0	23	36.5014	13	+0	07	43.0870
04	+0	39	02.6754	39	+0	23	09.2610	14	+0	07	15.8466
05	+0	38	35.4349	40	+0	22	42.0206	15	+0	06	48.6062

Lambert Projection for Texas (South)

Table II (Cont'd)

1" of Long. = 0!45400685

Long.	θ			Long.	θ			Long	θ		
98° 16'	+0° 06'	21!3658		98° 51'	-0° 09'	32!0486		99° 26'	-0° 25'	25!4630	
17	+0 05	54.1253		52	-0 09	59.2890		27	-0 25	52.7034	
18	+0 05	26.8849		53	-0 10	26.5295		28	-0 26	19.9438	
19	+0 04	59.6445		54	-0 10	53.7699		29	-0 26	47.1843	
20	+0 04	32.4041		55	-0 11	21.0103		30	-0 27	14.4247	
98° 21'	+0 04	05.1637		98° 56'	-0 11	48.2507		99° 31'	-0 27	41.6651	
22	+0 03	37.9233		57	-0 12	15.4911		32	-0 28	08.9055	
23	+0 03	10.6829		58	-0 12	42.7315		33	-0 28	36.1459	
24	+0 02	43.4425		59	-0 13	09.9719		34	-0 29	03.3863	
25	+0 02	16.2021		99° 00'	-0 13	37.2123		35	-0 29	30.6267	
98° 26'	+0 01	48.9616		99° 01'	-0 14	04.4527		99° 36'	-0 29	57.8671	
27	+0 01	21.7212		02	-0 14	31.6932		37	-0 30	25.1075	
28	+0 00	54.4808		03	-0 14	58.9336		38	-0 30	52.3480	
29	+0 00	27.2404		04	-0 15	26.1740		39	-0 31	19.5884	
30	0 00	00.0000		05	-0 15	53.4144		40	-0 31	46.8288	
98° 31'	-0 00	27.2404		99° 06'	-0 16	20.6548		99° 41'	-0 32	14.0692	
32	-0 00	54.4808		07	-0 16	47.8952		42	-0 32	41.3096	
33	-0 01	21.7212		08	-0 17	15.1356		43	-0 33	08.5500	
34	-0 01	48.9616		09	-0 17	42.3760		44	-0 33	35.7904	
35	-0 02	16.2021		10	-0 18	09.6164		45	-0 34	03.0308	
98° 36'	-0 02	43.4425		99° 11'	-0 18	36.8569		99° 46'	-0 34	30.2712	
37	-0 03	10.6829		12	-0 19	04.0973		47	-0 34	57.5117	
38	-0 03	37.9233		13	-0 19	31.3377		48	-0 35	24.7521	
39	-0 04	05.1637		14	-0 19	58.5781		49	-0 35	51.9925	
40	-0 04	32.4041		15	-0 20	25.8185		50	-0 36	19.2329	
98° 41'	-0 04	59.6445		99° 16'	-0 20	53.0589		99° 51'	-0 36	46.4733	
42	-0 05	26.8849		17	-0 21	20.2993		52	-0 37	13.7137	
43	-0 05	54.1253		18	-0 21	47.5397		53	-0 37	40.9541	
44	-0 06	21.3658		19	-0 22	14.7801		54	-0 38	08.1945	
45	-0 06	48.6062		20	-0 22	42.0206		55	-0 38	35.4349	
98° 46'	-0 07	15.8466		99° 21'	-0 23	09.2610		99° 56'	-0 39	02.6754	
47	-0 07	43.0870		22	-0 23	36.5014		57	-0 39	29.9158	
48	-0 08	10.3274		23	-0 24	03.7418		58	-0 39	57.1562	
49	-0 08	37.5678		24	-0 24	30.9822		59	-0 40	24.3966	
50	-0 09	04.8082		25	-0 24	58.2226		100°00'	-0 40	51.6370	

Lambert Projection for Texas (South)

Table II (Cont'd)

1" of Long. = 0.45400685

Long.	e		
100° 01'	-0° 41'	18.8774	
02	-0 41	46.1178	
03	-0 42	13.3582	
04	-0 42	40.5986	
05	-0 43	07.8391	
100° 06'	-0 43	35.0795	
07	-0 44	02.3199	
08	-0 44	29.5603	
09	-0 44	56.8007	
10	-0 45	24.0411	
100° 11'	-0 45	51.2815	
12	-0 46	18.5219	
13	-0 46	45.7623	
14	-0 47	13.0028	
15	-0 47	40.2432	
100° 16'	-0 48	07.4836	
17	-0 48	34.7240	
18	-0 49	01.9644	
19	-0 49	29.2048	
20	-0 49	56.4452	
100° 21'	-0 50	23.6856	
22	-0 50	50.9260	
23	-0 51	18.1665	
24	-0 51	45.4069	
25	-0 52	12.6473	
100° 26'	-0 52	39.8877	
27	-0 53	07.1281	
28	-0 53	34.3685	
29	-0 54	01.6089	
30	-0 54	28.8493	

CORRECTIONS TO NATURAL SCALE RATIOS*
(in units of the 7th decimal place)

For Lambert Projection				For Lambert or transverse Mercator Projection		
<u>$\Delta\phi'$ as argument</u>						
<u>$\Delta\phi'$</u>	<u>Corr'n</u> (Plus)	<u>$\Delta\phi'$</u>	<u>Corr'n</u> (Plus)	<u>Δy or Δx</u>	<u>Corr'n</u> (Plus)	
1	0	31	34	10,000	0	
2	0	32	36	20,000	0	
3	0	33	38	30,000	1	
4	1	34	40	40,000	2	
5	1	35	43	50,000	2	
6	1	36	45	60,000	3	
7	2	37	48	70,000	5	
8	2	38	51	80,000	6	
9	3	39	53	90,000	8	
10	4	40	56	100,000	10	
11	4	41	59	110,000	11	
12	5	42	62	120,000	14	
13	6	43	65	130,000	16	
14	7	44	68	140,000	19	
15	8	45	71	150,000	21	
16	9	46	74	160,000	24	
17	10	47	77	170,000	27	
18	11	48	81	180,000	31	
19	13	49	84	190,000	34	
20	14	50	88	200,000	38	
21	15	51	91	210,000	42	
22	17	52	95	220,000	46	
23	19	53	98	230,000	50	
24	20	54	102	240,000	55	
25	22	55	106	250,000	59	
26	24	56	110	260,000	64	
27	26	57	114	270,000	69	
28	27	58	118	280,000	74	
29	29	59	122	290,000	80	
30	32	60	126	300,000	86	
				310,000	91	
				320,000	97	
				330,000	103	
				340,000	110	
				350,000	116	

$\Delta\phi'$ is the difference in
latitude in minutes
of the ends of the line.

*Scale ratio interpolated for mean latitude or mean x' of the ends of a line and corrected by the above table is a true mean value accurate to within one in the seventh decimal place.