CLIMATOLOGICAL DATA FOR JULY, 1913.

DISTRICT NO. 8, TEXAS AND RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

GENERAL SUMMARY.

July was generally warm and dry, with a large percentage of sunshine and few rainy days. The excess of temperature was greatest in the interior and northern portions of Texas, while deficiencies occurred in southeastern New Mexico and along the lower Texas coast. Temperature extremes were marked, especially in New Mexico, where high day temperatures during the first half of the month were followed by damaging frosts in the higher northern districts on the 27th or 28th.

Precipitation occurred in scattered local showers and was decidedly deficient, except in a few limited sections which had heavy local rains. The only considerable area receiving more than the normal amount was in northeast Texas. The deficiency was most pronounced in the south-central portion of Texas, where the average rainfall was less than one-fourth inch; and for the district as a whole the month of July goes on record as one of the driest months of that name. Because of the abundant precipitation in June the moisture was ample during the first half of the month, but at its close the drought had become serious in many localities. The effect of deficient moisture was intensified by excessive sunshine and high day temperatures. In Texas the average number of clear days is the greatest of record for that month, and the average number of rainy days the least. The number of days with 0.01 inch or more of precipitation averaged 7 in Colorado, 5 in New Mexico, and 2 in Texas. The greatest and least monthly amounts of precipitation were, respectively, in Colorado, 2.15 inches at Platoro and 0.95 inch at Manassa; in New Mexico, 3.86 inches at Windsors and a trace at Laguna; and in Texas, 10.95 inches at Greenville and a trace at 10 stations, while at 13 others there was no precipitation. Excessive rains of 2.50 inches or more in 24 consecutive hours occurred at 6 stations in Texas, the heaviest reported being 5.70 at Greenville on the 3d.

The prevailing winds were from the southwest in the western portion of the district, from the south in the middle portion, and from the southeast along the Texas coast. The highest wind velocity reported was 64 miles per hour at Roswell, N. Mex., on the 14th.

TEMPERATURE.

The monthly mean temperature was 0.8° above the normal in Colorado, 0.2° below in New Mexico, and 1.2° above in Texas. High day temperatures were the rule up to the last decade, with the highest for the month generally occurring between the 5th and 11th, except in south Texas, where the 20th was the hottest day. Late on the 20th, however, severe wind and electrical storms occurred, which caused a sudden drop in temperature; and at several south Texas stations both the highest and lowest temperatures of the month were recorded on this date. The last decade was cool in the western portion of the district, with lowest temperatures generally occurring between the 26th and 29th. The nights as a rule were cool and the average daily range of temperature large, varying from 9° on the upper Texas coast to 39° in portions of New Mexico.

The highest and lowest temperatures reported were, respectively, in Colorado, 98° at Saguache on the 6th and 24° at Hermit on the 29th; in New Mexico, 109° at Carlsbad and Richland on the 11th and 32° at Red River Canyon on the 25th and at Tres Piedras on the 27th; and in Texas, 110° at Denton on the 10th, at Jewett on the 20th, and at Graham on the 23d and 50° at Stamford on the 26th. The local monthly means ranged from 51.8° to 65.4° in Colorado, from 56.8° to 81.8° in New Mexico, and from 73.0° to 88.4° in Texas.

PRECIPITATION.

The precipitation was decidedly deficient throughout the Rio Grande watershed except in its extreme upper portion, which received a slight excess. The average for the watershed was 1.21 inches, which is 0.90 inch less than the normal and less than half the total for the preceding month, although normally the rainfall for July is double that for June in this watershed.

The Rio Pecos watershed showed a general and marked deficiency of precipitation, the average amounting to only 0.93 inch, which is 2.44 inches less than the normal.

The precipitation over the Texas watersheds was also decidedly deficient, except over the Sabine drainage area which received heavy to excessive rains over its upper portion, giving an excess for the watershed as a whole of 1 05 inches. The other Texas watersheds showed deficiencies that ranged from a minimum of 1.33 inches for the Trinity to a maximum of 3.00 inches for the Neches. Exceptionally dry weather prevailed over the San Antonio watershed, and the percentage of deficiency was greatest over that drainage basin. The following are the average monthly amounts in inches and hundredths for the various Texas watersheds: Nueces, 0.68; San Antonio, 0.14; Guadalupe, 0 44; Lavaca, 1 00; Colorado, 0.96; Brazos, 0.81; Trinity, 1.93; Neches,1.42; Sabine, 4.74; and coastal plains, 0.94.

RIVER CONDITIONS.

High water continued in the Nueces River and its tributaries during the first decade from the excessive rains during the last few days of June. The East Fork of the Trinity and the extreme upper Sabine were at flood stage for several days following the excessive rains in Hunt and adjoining counties between the 1st and 4th. These rains covered only limited areas and were not

sufficient to cause overflows in the main trunks of these streams, although the rises in their middle and lower portions amounted to from 15 to 20 feet between the 6th and 20th. Slight rises occurred in the upper Trinity between the 25th and 30th, and in the Brazos and Colorado during the first decade. The Guadalupe was at low water mark throughout the month.

EXCESSIVE RAINS IN HUNT COUNTY, TEX.

Between 7 a. m. July 1 and 7 a. m. July 4, a series of heavy local showers occurred over a limited area in northeast Texas which caused much damage in that section. The morning weather map of the 2d showed a shallow barometric depression of small diameter over northern Texas, with lowest barometer reading 29 88 inches at Fort Worth, which was attended by showers in that section. The total rainfall from these showers at Greenville, Hunt County, amounted to 10 55 inches, but at surrounding stations it was much lighter. The amount at Bonham, Fannin County, during the same period, was 3 90 inches; at McKinney, Collin County, 2 30 inches; and at Kaufman, Kaufman County, 3 65 inches. From the havoc wrought it seems that the rainfall west or southwest of Greenville must have been in the nature of a cloudburst on the morning of the 2d. Creeks and streams and all lowlands in that section were flooded. Levees were broken and many acres of the richest agricultural lands in the State were under water. Bridges were destroyed, roadbeds badly washed, and traffic and communication interrupted for several days, and much other damage resulted from the water. The loss in Hunt and Rockwall Counties is estimated at over $1,000,000.

MOCK SUNS.

By HOWARD H. MARTIN, Assistant Observer, Fort Worth, Tex.

The phenomenon of "mock suns" or "sun dogs," although rare in Texas, was observed on the morning of July 24, under favorable conditions.

At sunrise, 5.37 a. m., the sun was hidden by a bank of dense alto-stratus clouds which gradually merged into thinner cirro-stratus. At 6.10 a. m., there appeared a well-defined halo of 22° radius, with a brilliant mock sun at each end of its horizontal diameter and at an altitude of perhaps 10°, each surrounded by a faint corona.

Above these mock suns, and to the outside, appeared fainter splotches of light, indicating the presence of another halo. The density of the attendant alto-stratus cloud was, however, too great to permit the observation of this halo.

The presence of halos and mock suns is generally considered a forerunner of precipitation, and in this case particularly, was the theory borne out. A sharp electrical storm with excessive rainfall occurred within 6 hours after the disappearance of the phenomenon. Accompanying the storm was a marked drop in temperature, the fall, though temporary, amounting to 38° in less than 3 hours.

TABLE 1.—*Climatological data for July, 1913. District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Colorado.																				
Blanca	Costilla	7,865	4	62.9		87a	7	33a	28	43a	1.46		0.62	0	7	20a	7a	3a	w.	Lewis F. Botens.
Cumbres	Conejos	10,015	6								1.27		0.44	0	9	12	12	7	sw.	Mrs. Ida M. Lively.
Garnett	Costilla	7,576	20	61.8	0.0	90	7	35	28	46	1.34	+ 0.17	1.14	0	3	12	15	4	sw.	Charles Speiser.
Hermit	Hinsdale	9,843	6	51.8		78	5	24	29	46	1.92		0.43	0	7	17	7	7		Miss Marion Mason.
La Veta Pass	Costilla	9,000	3								1.41		0.43	0	6	9	16	6	w.	Clara M. Wright.
Manassa	Conejos	7,700	7	64.0		89	5	36	27†	46	0.95		0.53	0	5	12	9	10	sw.	J. B. Chapman.
Platoro	do	9,675	6								2.15		0.48	0	12	15	9	7	w.	Walter R. Hook.
Saguache	Saguache	7,740	21	65.4	+ 1.1	98b	6	38b	28†	49b	2.03	+ 0.46	0.53	0	7	9a	4a	17a	sw.	Eugene Williams.
San Luis	Costilla	7,794	22	61.9	+ 0.9	85	6†	34	28	47	2.00	− 0.34	1.47	0	3	20	9	2	sw.	P. B. Albright.
Wagon Wheel Gap Experiment Station.	Mineral	9,235	14	56.2	+ 1.2	81	5	34	28	39	1.83	− 0.32	0.65	0	14	7	19	5		U. S. Weather Bureau.
New Mexico.																				
Agricultural College	Dona Ana	3,863	52	78.7	− 2.1	104	11	53	24	39	1.27	− 0.54	0.62	0	4	23	6	2	se.	N. Mex. Agricultural College.
Alamogordo (near)	Otero	4,338	16	81.2	+ 1.6	107	12†	55	25	44	0.01	− 1.59	0.01	0	1	16	10	5	s.	Edward Le Breton.
Alamogordo	do	4,320	4	79.4		102	11	57	24	38	0.28		0.28	0	1	29	0	2	s.	Agent E. P. & S. W. R. R.
Alamos Ranch	Sandoval	7,800	3								1.22		0.45	0	10	31	0	0	sw.	H. H. Brook.
Albuquerque	Bernalillo	5,000	37								0.46	− 0.75	0.34	0	4	20	11	0	w.	Pitt Ross, C. E.
Ancho	Lincoln	6,112	4																	Agent E. P. & S. W. R. R.
Anchor Mine	Taos	10,600	2								2.35		0.45	0	6	2	14	15	w.	Charles H. Brigham.
Artesia	Eddy	3,350	5	79.2		108	11	55	10	45	0.10		0.10	0	1	29	1	1	se.	Will Benson, C. E.
Aspen Grove Ranch	Rio Arriba	9,000	4								1.28		0.36	0	9	8	22	1		Junius D. Maupin.
Batemans Ranch	do	8,900	4								1.87		0.80	0	6	16	15	0	w.	John W. Bateman.
Berino	Dona Ana	3,788	2								1.00		0.66	0	2					J. C. Rishaberger.
Bluewater	Valencia	6,732	11	64.4	− 4.9	92	4†	33	28	55	2.52	+ 0.32	1.75	0	6	12	16	3	sw.	Bluewater Development Co.
Boaz	Chaves	4,154	4	78.2		104	13†	50	31	44	0.12		0.12	0	1	25	6	0	se.	William Horner.
Capitan	Lincoln	6,348	4								1.10		0.85	0	2	1	28	2	w.	Agent E. P. & S. W. R. R.
Carlsbad	Eddy	3,120	18	80.8	+ 0.5	109	11	60	10†	42	0.70	− 2.26	0.45	0	3	23	6	2	se.	U. S. Reclamation Service.
Carrizozo	Lincoln	5,429	5																	Agent E. P. & S. W. R. R.
Cerrillos (near)	Santa Fe	5,700	1	73.8		99	7†	44	27	44	0.82		0.34	0	7	12	18	1	s.	Irving C. Sweet.
Chama	Rio Arriba	7,851	15	62.4	− 2.3	89	5†	34	27†	46	1.78	− 0.73	0.70	0	6	21	10	0	sw.	Frank C. Johnson.
Cloudcroft	Otero	8,650	11																	Agent E. P. & S. W. R. R.
Corona	Lincoln	6,666	4	68.0		92	5†	46	22	36	0.40		0.40	0	1	6	23	2	sw.	Do.
Coyote	do	5,800	4								0.11		0.04	0	3	22	9	0	sw.	Do.
Cundiyo	Santa Fe	6,889	4								0.78		0.42	0	3	14	14	3	w.	Juan Vijil.
Demonstration Farm	San Miguel	6,800	4								0.73		0.22	0	4					C. C. Clayton.
Duran	Torrance	6,272	4	73.2		96	10†	49	24	36	0.65		0.55	0	2	23	1	7		Agent E. P. & S. W. R. R.
Elida	Roosevelt	4,345	1								0.38		0.38	0	1					A. J. Evans.
Escondido	Otero	4,014	4								0.60		0.30	0	3	23	0	8	se.	Agent E. P. & S. W. R. R.
Espanola	Rio Arriba	5,590	15	72.4	+ 0.5	100	14	41	28	46	0.38	− 1.16	0.10	0	5	24	7	0	s.	Mrs. Ella F. McBride.
Estancia	Torrance	6,140	10	70.3[1]		95[1]	11	45[1]	17	47[1]	1.21	− 2.19	0.74	0	6	14	17	0	se.	Geo. H. Van Stone.
Fort Stanton	Lincoln	6,231	36	69.0	− 0.1	100	11	43	26	46	2.07	− 0.90	0.60	0	7	21	10	0	se.	U. S. Sanitarium.
Fort Sumner	Guadalupe	3,960	10	76.2		104	11	54	28	45	0.36	− 1.91	0.24	0	5	22	9	0	se.	Peter Yocky.
Gallinas	Lincoln	6,635	4								0.15		0.10	0	2	5	14	12	sw.	Agent E. P. & S. W. R. R.
Gallinas Planting Sta.	San Miguel	7,500	6	63.9		88	11†	42	28	37	2.24		0.73	0	10	13	16	2	sw.	U. S. Forest Service.
Glorieta Ranch	Socorro	6,300	3																	Chas. M. Crossman.
Harveys Upper Ranch.	San Miguel	9,400	4	60.6		84	5	35	28	37	2.33		0.65	0	11	13	18	0	w.	R. B. Schoonmaker.
Hobbs	Eddy			79.8		106	11	59	16†	38	1.48		1.00	0	4	23	6	2	se.	E. H. Byers.
Hondo Reservoir	Chaves	3,904	4	77.8		106	11	54	27	44	0.50		0.27	0	5	22	9	0	se.	U. S. Reclamation Service.
Jemez Springs	Sandoval	6,100	3	70.9		93	13	48	29	36	0.66		0.23	0	7	9	13	9	sw.	Mrs. Linus L. Shields.
Knowles (near)	Eddy	4,300	3	78.1		104	11	57	26	41	1.28		1.11	0	4	23	7	1	se.	J. W. Mosley.
Laguna	Valencia	5,840	10	77.6		103	9	54	2†	42	T.	− 1.95	T.	0	0					Gus Weiss.
Lagunita	Guadalupe	4,500	8	76.0		101	11	51	31	38	0.56		0.38	0	3	22	8	1	s.	P. A. Turnbull.
Lake Valley	Sierra	5,412	8			105	11†				3.37		1.47	0	8	11	19	1	e.	William P. Keil.
Lakewood (near)	Eddy	3,170	1	80.4		102	7	60	3†	38	0.34		0.34	0	1	27	3	1	se.	Mrs. J. K. Boyd.
Lanark	Dona Ana	4,156	14								1.25	− 0.36	0.80	0	2	0	31	0	w.	Agent So. Pac. R. R.
Las Vegas	San Miguel	6,385	26	68.5	− 0.5	94	13	42	27	41	0.47	− 3.35	0.36	0	3	21	6	4	sw.	New Mexico Normal Univ.
Los Lunas (near)	Valencia	4,900	24	75.7	− 1.2	100	9	43	28	47	0.08	− 1.01	0.06	0	2	10	21	0		Richard Pohl.
Magdalena	Socorro	6,557	10	72.3		96	12	50	28	38	0.85	− 1.96	0.55	0	4	6	25	0	sw.	William Pender.
Mescalero	Otero	6,627	2	65.8		91	11	42	23	38	1.04		0.34	0	11	12	12	7	sw.	Rev. R. H. Harper.
Mineral Hill	San Miguel	7,050	8								1.87		0.85	0	3	2	27	2	sw.	W. M. Nelson.
Monterey	Otero	4,436	4								0.36		0.16	0	3	13	17	1	s.	Agent E. P. & S. W. R. R.
Mountainair	Torrance	6,547	11	71.2	+ 1.4	99	12†	40	29	50	1.33	− 0.98	0.88	0	4	23	7	1	sw.	Miss Julia Hill.
Mountain Park	Otero		1								1.42		0.24	0	10	20	8	3	e.	Chas. E. Beasley.
Newman	do	3,989	4								0.77		0.77	0	1	26	1	4	w.	Agent E. P. & S. W. R. R.
Nogal (near)	Lincoln	8,000									1.21		0.38	0	8	14	16	1	w.	H. E. Kellar.
Noria	Dona Ana	4,114	4								1.58		1.22	0	4	21	1	9	w.	Agent E. P. & S. W. R. R.
Orogrande	Otero	4,171	4								1.00		0.80	0	2	9	20	2		Do.
Oscura	Lincoln	5,016	4								2.43		0.73	0	8					Eugene F. Jones.
Otis	Eddy	3,100	4								0.96		0.54	0	4	25	1	5	se.	A. M. Hove.
Pastura	Guadalupe	5,285	4								0.41		0.21	0	3	9	17	5	sw.	Agent E. P. & S. W. R. R.
Plainview (near)	Chaves	4,300	2	78.2		105	11	57	28	41	2.37		1.00	0	5	23	6	2	se.	L. P. Adair.
Red River Canyon	Taos	9,856	6	58.8		86	16	32	25	51	2.60		0.80	0	8	9	16	6	e.	Mrs. L. R. Penn.
Richland	Chaves			76.7		109	11	52	16	49	0.58		0.58	0	1	13	18	0	se.	K. H. Embree.
Rincon	Dona Ana	4,030	19	78.7	− 0.5	105	11	50	24	45	0.55	− 1.52	0.30	0	3	3	23	5	sw.	Charles H. Raitt.
Rio Grande Dam	Sierra	4,265	23	81.8	+ 3.2	108	11	60	22†	38	1.04	− 1.06	0.34	0	5	6	22	3	w.	U. S. Reclamation Service.
Rio Grande Industrial School.	Bernalillo	5,000	2	73.4		98	8†	44	28	44	0.55		0.51	0	2	19	9	3	sw.	Rev. A. C. Heyman.
Rosedale	Socorro	6,910	8	68.4		92	12	45	22	35	1.51		0.45	0	11	14	15	2	w.	Mrs. J. J. MacInness.
Roswell	Chaves	3,578	19	78.4	− 0.4	103	11	58	27	38	0.82	− 2.64	0.41	0	4	16	14	1	s.	U. S. Weather Bureau.
San Marcial	Socorro	4,439	16	77.8	+ 0.4	104	14†	47	21	53	0.31	− 1.37	0.15	0	3	24	5	2	sw.	Agent A., T. & S. F. R. R.
San Rafael	Valencia	6,509	16	73.4	+ 1.6	107	2	42	27†	54	0.46	− 1.60	0.20	0	4	22	9	0	sw.	Dr. C. M. Grover.
Santa Fe	Santa Fe	7,013	40	69.6	+ 0.9	90	11	52	30	30	1.12	− 1.59	0.51	0	9	9	21	1	se.	Section Center.
Santa Fe Canyon	do	8,000	3								1.13		0.40	0	6	15	14	2	se.	Mrs. E. M. Gregory.
Santa Rosa	Guadalupe	4,624	12	77.1		103	11	54	24†	40	0.32	− 2.16	0.13	0	6	12	10	9	sw.	H. V. B. Smith.
Senorita (near)	Sandoval	7,500	1																	James Curry.
Socorro	Socorro	4,600	21	77.6	+ 0.1	103	5†	51	25	42	0.79	− 0.85	0.32	0	5	30	1	0	se.	J. J. Leeson.
Southfork	Taos	8,405									2.91		0.40	0	13	18	13	0	se.	Frank Hamm, jr.
Stanley	Santa Fe	6,317	4	69.4		98	11†	37	28	48	0.14		0.14	0	1	8	9	14	w.	D. C. Kinsell.
Tajique (near)	Torrance	9,820	3	60.8		77	11†	42	30	30	1.74		0.52	0	10	19	12	0		A. Rea.
Taos	Taos	6,983	18	67.8	− 0.8	92	14	42	28	42	1.02	− 0.70	0.42	0	9	16	15	0	w.	Alexander Gusdorf.
Taos Canyon	do	8,959	4								2.02		0.44	0	11	15	9	7		L. Martinez, jr.
Tecolote	Lincoln	6,539	4	71.4		90	4†	54	22	30	0.40		0.40	0	1	14	5	12	e.	Agent E. P. & S. W. R. R.
Three Rivers	Otero	4,559	4								0.06		0.06	0	1	15	8	8	sw.	Do.
Tijeras Canyon	Bernalillo	6,214	3								1.86		1.04	0	7	21	9	1	sw.	U. S. Forest Service.
Torrance	Torrance	6,433	4																	Agent E. P. & S. W. R. R.
Tres Piedras	Taos	8,076	10	63.0		90	5	32	27	47	2.21	− 0.53	0.53	0	6	10	11	10	sw.	U. S. Forest Service.
Truchas	Rio Arriba	7,935	4	63.8		86	7	43	29	33	1.84		0.53	0	10	14	6	11	se.	Miss T. Esquibel.
Tularosa	Otero	4,436	3																	Irby L. Fairless.

TABLE 1.—*Climatological data for July, 1913. District No. 8*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***New Mexico*—Contd.**																				
Vaughn	Guadalupe	5,952	4								0.10		0.05	0	2	16	15	0		Agent E. P. & S. W. R. R.
Virsylvia	Taos	7,500	3	69.6		92	30	49	19	36	0.50		0.20	0	7	23	7	1	s.	Dr. I. N. Woodman.
Willard	Torrance	6,086	1	72.1		106	1	39	28	55	0.95		0.51	0	5	18	8	5	sw.	Dr. V. S. Cheyney.
Winsors	San Miguel	8,200	17	56.8	− 1.7	82	5	33	28	40	3.86	− 0.52	0.74	0	17	11	19	1	sw.	James F. Matty.
Texas.																				
Abilene	Taylor	1,738	28	84.3	+ 2.1	102	10	66	21	30	0.72	− 1.68	0.28	0	5	17	13	1	s.	U. S. Weather Bureau.
Albany	Shackelford	1,429	19	83.2	− 0.1	108	10	61	22†	41	0.70	− 2.25	0.41	0	3	28	3	0		N. L. Bartholomew.
Alice	Jim Wells	209	2	83.5		101	9	65	12	33	0.60		0.35	0	2	26	1	4	se.	R. M. Boerum.
Alpine	Brewster	4,482	3								1.80		1.60	0	2	17	14	0	s.	H. B. Cowles.
Alvin	Brazoria	49	15	83.4		102	20	68	15†	33	2.16	− 4.77	1.56	0	2	8	20	3	s.	Alvin Japanese Nursery.
Anahuac	Chambers	23	4								1.19		0.78	0	6					Lone Star Canal Co.
Angleton	Brazoria			81.4		100	20	65	19	30	1.57		0.62	0	5	10	6	15	s.	N. C. Winters.
Antelope	Jack		2								0.17		0.17	0	1	27	4	0		Paul Rudolph.
Aspermont	Stonewall		2								1.45		1.17	0	2	25	3	3	se.	Bryant Link Co.
Austin	Travis	593	57	84.0	+ 0.3	100	20	70	14	28	0.01	− 2.39	0.01	0	1	21	9	1	s.	A. Deussen.
Ballinger	Runnels	1,637	17	84.6	+ 2.5	107	31	66	7†	40	0.43	− 2.61	0.25	0	3	7[a]	23[a]	0[a]	s.	E. M. Eubank.
Barstow	Ward	2,573	6	82.4		105	11	61	26	34	0.20		0.20	0	1	22	8	1	s.	F. P. Ingerson.
Bay City	Matagorda	53	3	82.2		94	20	73	20	21	2.53		1.80	0	3	12	12	7	s.	E. C. Quereau.
Beaumont	Jefferson	29	12	85.2	+ 2.3	100	7	71	30†	27	1.71	− 3.25	0.75	0	7	16	0	15	se.	John Bender.
Beeville	Bee	225	17	82.4	− 1.4	103	20†	64	30	38	0.12	− 3.72	0.06	0	3	26	3	2	se.	Geo. A. Faupel.
Big Spring	Howard	2,396	15	82.7	+ 0.1	105	11	62	26	36	0.97	− 2.02	0.65	0	2	20	11	0	s.	B. Reagan.
Blanco	Blanco	1,350	17	84.4	+ 2.7	103	20	66	22†	36	0.06	− 3.47	0.06	0	1	27	4	0	s.	R. C. Crist.
Boerne	Kendall	1,412	21	80.9	+ 0.2	104	25	60	8	40	0.33	− 3.34	0.28	0	2	26	5	0	s.	F. W. Schweppe.
Booth	Fort Bend	81	12								0.25	− 4.78	0.15	0	2	30	0	1	se.	T. R. Booth.
Bowie	Montague	1,113	18	87.1	+ 3.8	107	23	67	26	33	0.85	− 1.54	0.85	0	1	20	7	4	s.	Craig Anderson.
Brady	McCulloch	1,500	12																	Prof. J. O. Wallace.
Brazoria	Brazoria	25	24	83.6	+ 2.1	104	20	70	6†	32	0.06	− 5.25	0.06	0	1	31	0	0	s.	Mrs. M. A. Stevens.
Brazos	Palo Pinto	801	4								1.35		1.10	0	3	19	12	0	s.	Robt. E. Boyett.
Brenham	Washington	350	28	84.7	+ 1.4	102	20	71	18	26	1.05	− 2.06	0.56	0	3	26	5	0	s.	Mrs. B. F. Sloan.
Bridgeport	Wise	754	4								1.25		0.82	0	2	22	8	1	s.	Claude Strange.
Brighton	Neuces	12	20	84.6[m]	+ 1.7	98[m]	31	72[m]	7	23[m]	T.	− 1.29	T.	0	0	18[m]	0[m]	0[m]	se.	G. H. Ritter.
Brownsville	Cameron	38	49	81.4[d]	− 2.4	96	20	69	10	25[h]	0.28	− 1.60	0.24	0	3				se.	U. S. Weather Bureau.
Brownwood	Brown	1,342	21	84.6	+ 1.2	105	10†	66	21†	37	0.80	− 1.30	0.68	0	3	20	9	2	s.	Mrs. Pearl Smith.
Buena Vista	Pecos		1								0.25		0.25	0	1	30	1	0		W. H. Denis.
Cameron	Milam		5																	J. E. Watts.
Carmona	Polk	330	5	82.8		103	20	66	16†	34	1.81		1.26	0	4	12	19	0	s.	M. S. Spitler.
Carrizo Springs	Dimmit		1	85.6		101	14†	70	6†	30	0.45		0.25	0	2	21	0	10	se.	M. E. Cook.
Claytonville	Fisher	2,100	18	83.4	+ 2.4	104	12†	62	26	36	2.34	− 1.34	1.12	0	3	30	0	1	se.	Wm. Lanius.
Cleburne	Johnson	758	8																	W. S. Ownsby.
Clifton	Bosque	671	2								1.81		0.81	0	5	14	16	1	s.	R. M. Jones.
Coleman	Coleman	1,710	19	86.8	+ 5.8	106	31	63	16	36	T.	− 3.14	T.	0	0	18	13	0	s.	J. E. Stevens.
Collegeport	Matagorda		1	82.4		100	10	68	6†	30						1	30	0	s.	H. A. Clapp.
College Station	Brazos	308	23	86.2	+ 2.8	106	23	67	18	36	0.06	− 2.63	0.04	0	3	9	8	14	s.	Prof. G. S. Fraps.
Colorado	Mitchell	2,066	19	80.8	− 1.8	103	23	62	15	35	2.69	− 0.47	1.48	0	4				s.	R. M. Webb.
Columbus	Colorado	206	9								1.90		1.90	0	1	28	3	0	s.	Mrs. Sophie Bridge.
Comanche	Comanche	1,358	7	85.4		107	10	64	26	33	1.02		0.85	0	4	7	20	4	se.	R. V. Nabers.
Corpus Christi	Nueces	20	26	81.4	− 1.3	94	20	72	20	22	1.18	− 0.48	1.07	0	3	19	12	0	se.	U. S. Weather Bureau.
Corsicana	Navarro	445	24	84.9	+ 1.0	99	8†	69	21	28	2.37	− 0.28	1.53	0	3	23	3	5	s.	D. H. Winn.
Cotulla	La Salle	425	6								0.00		0.00	0	0					Holland Agricultural Co.
Crockett	Houston	350	9	86.4		108	20	67	21	34	0.31		0.21	0	3	23	6	2	s.	A. M. Rencher.
Cuero	De Witt	177	23	84.7	− 0.1	101	20	69	17	30	1.08	− 1.59	0.75	0	7	25	1	5	s.	H. R. Frobese.
Dallas	Dallas	466	24	85.5	+ 1.6	106	10	69	3†	32	2.48	− 0.92	0.89	0	4	22	1	8	s.	G. A. Eisenlohr.
Danevang	Wharton	145	17	86.8	+ 3.6	105	20	71	6†	31	1.46	− 3.44	0.67	0	4	26	3	2	se.	H. P. Hermansen.
Del Rio	Valverde	952	7	84.5	− 0.2	99	20	66	26	27	1.52	− 0.70	1.52	0	1	22	6	3	se.	U. S. Weather Bureau.
Denton	Denton	621		86.2		110	10	68	21†	37	2.55		1.70	0	6	23	3	5	sw.	T. W. Buell.
Devine	Medina	653	3	88.4		105	16†	70	21	33	0.25		0.25	0	1	28	3	0	se.	M. A. Keller.
Dialville	Cherokee	575	10	84.1	+ 2.5	102	19	66	21	30	1.05		0.55	0	2	15	13	3	s.	J. M. B. McKnight.
Dilley	Frio	569	3								0.50		0.50	0	1					John W. Miller.
Dublin	Erath	1,466	17	85.6	+ 3.8	107	10	68	21†	34	0.35	− 2.29	0.19	0	3	19	11	1	s.	Jno. O. Shafer.
Duval	Travis	820	24	85.2	+ 0.8	101	10†	71	16†	27	0.09	− 2.55	0.09	0	1	23	4	4	se.	J. C. Edgar.
Eagle Pass	Maverick	800	36	87.2	− 0.6	105	20	70	26	31	0.11	− 1.65	0.10	0	2	22	8	1	se.	Charles Tarver.
Eastland	Eastland	1,420	6	83.0		105	23†	58	27	42	T.		T.	0	0	26	4	1	s.	James A. Beard.
Edna	Jackson	71	4								1.31		1.10	0	2					E. L. Faires.
El Paso	El Paso	3,762	34	81.5	+ 1.0	104	11	61	21	32	1.13	− 1.00	0.60	0	5	19	10	2	e.	U. S. Weather Bureau.
Encinal	La Salle	558	5																	Walter Pettit.
Fairland	Burnet	1,000	24	84.0	+ 1.3	105	20†	61	20	44	0.43	− 1.46	0.22	0	2	17	14	0	s.	R. L. Bush.
Falfurrias	Brooks		5	83.6		101	23†	66	10†	32	1.10		0.73	0	3	27	4	0	se.	W. A. Gardner.
Flatonia	Fayette	465	5	85.8		108	20	68	16	35	0.25		0.17	0	2	20	10	1	s.	Fred W. Laux.
Flint	Smith	483	3	85.0		106	19	68	23	34	1.12		1.02	0	2	21	7	3	sw.	F. C. C. Carter.
Fort Clark	Kinney	1,050	42	83.5	− 0.6	98	13†	68	28	28	1.50	− 0.46	1.50	0	1	29	1	1	se.	Post Hospital.
Fort Davis	Jeff Davis	5,000	34								1.30	− 2.14	0.52	0	4					C. H. Bird.
Fort McIntosh	Webb	460	45	87.2	+ 0.1	104	20	68	9	35	0.00	− 1.94	0.00	0	0	24	6	1	se.	Post Hospital.
Fort Stockton	Pecos	3,050	16	81.8	+ 0.9	106	11	61	29	36	T.	− 2.25	T.	0	0	3	28	0	se.	H. H. Butz.
Fort Worth	Tarrant	670	18	85.1	+ 1.4	106	10	65	24	38	4.36	+ 1.32	2.50	0	6	16	12	3	s.	U. S. Weather Bureau.
Fowlerton	La Salle			87.0		106	20	70	16	35	0.08		0.08	0	1					Leo S. Karren.
Fredericksburg	Gillespie	1,742	24	81.2	− 2.5	98	20†	62	24	34	0.15	− 2.31	0.15	0	1	15	13	3	s.	Arthur Striegler.
Gail	Borden		1	80.7		100	16	62	28	36	1.65		1.15	0	3	23	1	7	s.	J. D. Brown.
Gainesville	Cooke	738	23	85.9	+ 4.1	105	8†	65	22	31	3.27	− 1.07	1.95	0	3					J. L. Hickson.
Galveston	Galveston	69	42	83.2	+ 0.2	99	20	75	20	24	1.48	− 2.50	1.17	0	6	25	5	1	s.	U. S. Weather Bureau.
Garden City	Glasscock		1								0.26		0.26	0	1	27	3	1	se.	C. W. Cunningham.
Gatesville	Coryell	795	9	85.6		104	23	70	26	30	0.30		0.25	0	2	27	3	1		John Ryan.
Georgetown	Williamson	750	18	85.4	+ 2.2	107	20	68	18	35	0.00	− 2.99	0.00	0	0	30	1	0	s.	Prof. R. F. Young.
Goliad	Goliad	164	1								0.36		0.24	0	2					W. B. Campbell.
Gonzales	Gonzales	299	8								0.66		0.38	0	3	22	6	3	s.	J. M. Johnson.
Goree	Knox		1								2.07		1.52	0	2	14	17	0	s.	R. L. Gaines.
Gorham	McLennan	444	4								T.		T.	0	0	23	8	0	s.	John Gorham.
Graham	Young	1,040	14	87.6	+ 3.3	110	23	64	31	43	0.37	− 2.44	0.37	0	1	20	10	1	s.	C. W. Johnson.
Grand Falls	Ward		3								T.		T.	0	0	8	23	0		W. A. White.
Grand Saline	Van Zandt	399	3								3.15		1.60	0	3	25	3	3	se.	Jas. Kirk.
Grapevine	Tarrant	670	23	85.4	+ 2.4	109	10	67	25†	36	4.66	+ 1.33	1.59	0	5	15[d]	6[d]	6[d]	s.	W. J. Crowley.
Greenville	Hunt	550	13	84.4	+ 0.7	103	19	68	2	31	10.95	+ 6.73	5.70	0	5	19	0	12	s.	Mrs. L. A. Regan.
Hallettsville	Lavaca	235	21	86.2	+ 2.2	102	8†	70	18	30	0.70	− 2.28	0.23	0	4	22	4	5	s.	Dr. J. E. Lay.
Hamlin	Jones	1,685	2								3.35		2.60	0	2					W. S. Carruthers.
Harlingen	Cameron	37	2	83.7		102	22	69	9†	33	0.61		0.33	0	4	22	9	0	se.	Lindsay Waters.
Harper	Gillespie		2								0.24		0.24	0	1	26	0	5		D. C. Barker.
Haskell	Haskell	1,553	18	85.4	+ 0.8	105	11	66	26†	31	1.78	− 0.97	1.36	0	3	22	7	2	s.	P. D. Sanders.
Hayflat	Winkler		3																	M. M. Leeman.
Hebbronville	Duval		6								0.00		0.00	0	0					Henry Edds.

TABLE 1.—*Climatological data for July, 1913. District No. 8*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Texas—Continued.																				
Hempstead	Waller	254	9								0.40		0.40	0	1	22	0	9	s.	J. H. Hancock.
Henderson	Rusk	500	4								1.07		0.40	0	6	21	6	4		M. Kangerga.
Hewitt	McLennan	664	18								1.02	− 2.34	0.60	0	3					I. H. Earle.
Hico	Hamilton		2								1.44		1.00	0	4	22	2	7	s.	John A. Eakins.
Hillsboro	Hill	628	10	85.8		108	9†	66	4†	40	0.37	− 2.10	0.20	0	3					Thompson & Campbell.
Hondo	Medina	901	14	83.8	− 1.6	100	20†	68	9	30	0.08	− 3.25	0.08	0	1	27	2	2	se.	H. E. Haass.
Houston	Harris	138	23	84.0	+ 0.8	101	20	72	21	27	1.37	− 2.72	0.97	0	5	20	9	2	s.	U. S. Weather Bureau.
Huntsville	Walker	400	29	85.0	+ 1.6	103	20	69	21	28	T.	− 2.91	T.	0	0	27	0	4	se.	W. Y. Barr.
Jayton	Kent		3								1.03		0.60	0	3	29	0	2	s.	Wichita Valley R. R. Co.
Jewett	Leon	496	9	87.1		110	20	68	21	39	T.		T.	0	0	20	11	0	s.	Earle Adkisson.
Junction	Kimble	1,645	12																	Judge John S. Durst.
Kaufman	Kaufman	448	14	85.6	+ 1.6	103	30	68	21	30	3.65	− 0.64	3.00	0	2	24	5	2	s.	B. J. Hubbard.
Kerrville	Kerr	1,650	17	81.3	+ 1.2	98	20†	60	31	38	0.44	− 3.32	0.30	0	2	14	16	1	s.	Robert E. Horne.
Knickerbocker	Tom Green	2,050	9								0.90		0.90	0	1					Jos. Tweedy.
Kopperl	Bosque	576	16								2.10	− 0.66	1.40	0	2	18	8	5	s.	T. A. Johnson.
Lagrange	Fayette	276	3								2.01		1.80	0	5	20	5	6	se.	August Hermes.
Lamesa	Dawson	2,500	3								1.11		1.11	0	1					S. D. Austin.
Lampasas	Lampasas	1,026	21	83.9	+ 1.3	102	10†	67	18†	35	0.29	− 1.57	0.15	0	3	28	0	3	s.	Mrs. K. I. Webber.
La Parra	Willacy	38	11								0.65	− 2.03	0.55	0	2					John G. Kenedy.
Laredo	Webb	421									0.60		0.40	0	2	10	13	8	se.	Mrs. A. H. Jackson.
Laureles Ranch	Nueces	20	13																	Matt Cody.
Liberty	Liberty	38	9	83.6		108	20	67	15†	37	0.65		0.26	0	3	24	2	5	s.	Mrs. Fannie Sneed.
Llano	Llano	1,040	22	86.0	+ 0.7	103	10	70	18	31	0.03	− 1.71	0.03	0	1	21	10	0	s.	E. W. Torrence.
Llano Grande	Hidalgo	86	5	81.8		100	9†	65	6†	34	2.65		2.00	0	3	13	18	0	se.	M. D. Wardlow.
Long Lake	Anderson	229	8								0.40		0.40	0	1	24	3	4	e.	Geo. W. Ellis.
Longview	Gregg	336	27	86.1	+ 2.4	104	8†	70	21	29	3.32	+ 0.09	1.56	0	5	26	2	3	se.	C. A. Propst.
Lubbock	Lubbock		2								0.40		0.40	0	1	30	1	0	s.	L. V. Cory.
Lufkin	Angelina	325	6	83.7		104	8	67	20	35	1.83		0.98	0	3	19	4	8	s.	T. A. King.
Luling	Caldwell	418	24	85.8	+ 1.7	103	20	70	18	31	0.04	− 2.73	0.02	0	2	16	14	1	s.	John Carter.
Lyford	Cameron																			B. D. Stevenson.
McGregor	McLennan	713	3								0.00		0.00	0	0	30	1	0	s.	W. H. Whitley.
McKinney	Collin	612	11	83.2		103	24	66	22	34	6.16	+ 2.88	2.08	0	7	20	7	4	se.	H. Killingsworth.
Marathon	Brewster	4,043	3	73.0		92	11†	55	28	31	3.88		2.20	0	4	23	6	2	e.	Rev. A. P. Willis.
Marble Falls	Burnet	771	5								T.		T.	0	0	20	6	5	s.	B. E. Cochran.
Marfa	Presidio		5								0.00		0.00	0	0					W. L. Jones.
Marshall	Harrison	375	12	83.6		102	19	66	21†	35	2.78	− 0.83	0.94	0	5	3	26	2	sw.	Lee Scott.
Matagorda	Matagorda	12	3								0.00		0.00	0	0	31	0	0	s.	W. E. McNabb.
Mexia	Limestone	537	9	86.9		106	9	70	21	31	0.46		0.25	0	2	16	10	5	s.	Isidore Newman.
Midland	Midland		10	79.6[k]		99[k]	14	60[k]	20	33[k]	1.27	− 0.13	0.85	0	2	7[k]	13[k]	0[k]	se.	A. G. Graham.
Mission	Hidalgo	140	3																	Myron J. Conway.
Mont Belvieu	Chambers	65	3								2.08		0.86	0	7	22	8	1	sw.	A. R. Shearer.
Montell	Uvalde		1								2.60		2.14	0	3	15	13	3	se.	A. G. Beecroft.
Mount Blanco	Crosby	2,750	24	78.6	0.0	98	31	61	19†	34	1.05	− 2.14	1.05	0	1	15	15	1	s.	Geo. W. Smith.
Nacogdoches	Nacogdoches	271	14	82.2	+ 1.4	99	8	67	7†	31	0.81	− 4.23	0.81	0	1	24	2	5	s.	Miss Mary Hofmann.
New Braunfels	Comal	720	24	82.8	0.0	98	31	69	18†	28	1.40	− 1.29	0.93	0	2	14	17	0		J. Giesecke.
Palestine	Anderson	510	31	83.7	+ 2.2	99	8	67	21	29	0.71	− 2.29	0.68	0	2	24	7	0	s.	U. S. Weather Bureau.
Panter	Hood	1,000	24								0.13	− 2.60	0.13	0	1					E. H. Snyder.
Pearsall	Frio	629	3								0.27		0.25	0	2					Earnest De Vilbiss.
Pierce	Wharton	102	7	84.3		103	20	69	19	32	1.52		0.56	0	6	12	1	18	s.	R. B. Pointer.
Plainview	Hale	3,370	17	78.0	+ 1.2	101	11	58	21†	36	2.89	− 0.88	2.60	0	4	19	12	0	s.	J. F. Sander.
Port Lavaca	Calhoun	20	12	84.0	+ 1.0	102	20	70	20	32	0.74	− 3.53	0.46	0	2	24	6	1	se.	J. H. Bickford.
Post	Garza	2,700	3								1.72		1.55	0	2	21	6	4	s.	W. T. Mann.
Putnam	Callahan	1,591	2								0.00		0.00	0	0	31	0	0	s.	S. M. Davis.
Raymondville	Cameron		2	81.8		97	22†	65	4	29	3.90		3.40	0	6	17	14	0	se.	C. H. Pease.
Ricardo	Nueces	57	4	82.4		100	23†	66	18	29	0.15		0.15	0	1	19	9	3	se.	J. S. Lehman.
Rio Grande	Starr		36								0.50	− 0.78	0.50	0	1	20	9	2	se.	D. N. Garza.
Riverside	Walker	169	9								1.45		1.25	0	2	26	2	3	s.	Mrs. C. W. Higdon.
Rockland	Tyler	136	9								0.70		0.60	0	2	17	8	6	s.	Mack Dunkin.
Rockport**	Aransas	12	12	82.2	− 0.8	88	8†	74	20	12	0.28	− 2.20	0.15	0	5	29	2	0	se.	Mrs. G. B. Grewe.
Rossville	Atascosa	558	6	83.2		99	23	67	8	30	0.83		0.64	0	3	12	18	1	se.	W. F. M. Ross.
Runge	Karnes	308	18								0.00	− 3.13	0.00	0	0					Reiffert & Frobese.
Sabinal	Uvalde	964	9	83.9		101	20†	68	9†	31	0.86		0.65	0	2	18	11	2	se.	H. W. Reily.
Salado	Bell		3								0.92		0.92	0	1	25	3	3	s.	L. M. Crockett.
San Angelo	Tom Green	1,847	22	83.4[d]	0.0	104	14	60	27	34[d]	0.60	− 2.03	0.60	0	1	24	7	0	s.	Sam Crowther.
San Antonio	Bexar	701	28	84.5	+ 2.1	101	20	71	9	28	0.03	− 2.19	0.03	0	1	28	3	0	s.	U. S. Weather Bureau.
San Augustine	San Augustine	360	4	82.6		102	19	66	19	36	2.65		1.07	0	5	15[b]	4[b]	10[b]		F. A. Wilson.
San Juanito	Hidalgo		4	85.1		102	26	69	27†	32	0.14		0.05	0	4	0	6	25	se.	J. B. McAllen.
San Marcos	Hays	558	20	83.9	+ 0.9	100	20†	68	18†	30	0.00	− 3.79	0.00	0	0	27	0	4	e.	Miss L. C. Ford.
San Saba	San Saba	1,712	12	83.6	+ 1.7	103	31	64	18	36	0.22	− 2.54	0.22	0	1	26[a]	4[a]	0[a]	s.	Jas. Burns.
Santa Anna	Coleman	1,744				102	10				0.00		0.00	0	0	24	6	1	s.	L. L. Shield.
Santa Gertrudes	Nueces		13								0.61	− 1.59	0.38	0	2					J. B. Wright, jr.
Sealy	Austin	201	2								0.59		0.47	0	2	19	10	2	s.	O. H. Albert.
Seymour	Baylor	1,320	7								0.38		0.25	0	2					T. J. North.
Snyder	Scurry		2	80.8		101	11	61	26	32	2.58		1.13	0	2	23	6	2	s.	Olin F. Hardy.
Somerville	Burleson	251	4	85.8		105	20	68	18	32	T.		T.	0	0	28	1	2	s.	Ed. Herbst.
Sonora	Sutton	2,200	9	81.0[g]		100	20	63	26	35[g]	1.83		1.83	0	1	19[g]	3[g]	2	s.	C. R. Myers.
Spur	Dickens	2,300	2	82.4		102	11†	63	26†	35	0.70		0.41	0	3	22	7	2	s.	J. D. Reagan.
Stamford	Jones		2	84.9		103	10	50	26	27	1.55		1.15	0	2	23[a]	7[a]	0[a]		W. I. Pratt.
Sugarland	Fort Bend	79	12	84.4	+ 2.1	102	20	70	17†	31	1.05	− 3.74	0.52	0	5	30	1	0	s.	Paul C. Rudat.
Sutherland Springs	Wilson	424	3								0.00		0.00	0	0					W. W. Craft.
Tahoka	Lynn			79.4		98	12†	61	21	34	0.53		0.36	0	2	15	16	0	se.	H. C. Crie.
Taylor	Williamson	583	12	84.6	+ 1.9	102	20	70	17	29	0.01	− 2.61	0.01	0	1	19	11	1	s.	U. S. Weather Bureau.
Temple	Bell	630	23	86.2	+ 3.5	103	9†	70	22	29	0.50	− 1.94	0.50	0	1	28	0	3		W. Goodrich Jones.
Thurber	Erath		3								0.36		0.24	0	2					J. K. Ball.
Tivoli	Refugio		3								0.20		0.20	0	1					W. H. Gisler.
Uvalde	Uvalde	937	18	83.4		100	11†	67	8†	31	0.85	− 1.88	0.60	0	2	30	1	0	se.	J. G. McBride.
Valley Junction	Robertson	289	13								0.00	− 2.22	0.00	0	0	26	2	3	s.	Frank Fitzpatrick.
Victoria	Victoria	187	14	86.4[h]	+ 2.4	105	20	71	3†	29	0.30	− 3.59	0.30	0	1	29	2	0	s.	C. C. Zirjacks.
Waco	McLennan	424	24	88.4	+ 5.4	104	10	74	18	27	0.15	− 2.20	0.15	0	1	25	4	2	s.	A. E. Howell.
Waxahachie	Ellis	556	16	86.2	+ 3.0	105	10†	65	22	37	2.33	− 0.76	0.88	0	5	18	10	3	s.	C. D. Longserre.
Weatherford	Parker	864	24	86.2	+ 2.7	105	10	70	21†	33	1.63	− 0.86	1.05	0	3	30	0	1	n.	Miss J. Stickfort.
Wills Point	Van Zandt	524	8	85.4		103	14†	69	22†	32	3.15		2.35	0	3	22	2	7	s.	W. W. Gibbard.
Winters	Runnels		2								2.37		0.97	0	3					Ed. P. Eason.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
**Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
†Also on other dates.
T, Precipitation is less than 0.01 inch rain or melted snow

TABLE 2.—*Daily precipitation for July, 1913. District No. 8, Texas and Rio Grande Valley.*

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Colorado.																																	
Blanca	Rio Grande									.62							.12			.03	.10	.18	.10	.31									1.46
Cumbres	do						T.			.22	.44				T.			.02	.16	.05	.10	.03	.09	.16								T.	1.27
Garnett	do									T.									.15	1.14	.05										T.		1.34
Hermit	do						T.	T.	T.	T.	.26					.15	T.		.43	.25	.21	.39	.19	T.		T.		T.		T.		T.	1.92
La Veta Pass	do															.15	.23		.16	.21			.43					.23					1.41
Manassa	do						T.	T.		T.									.12	.07	.14		.09	.53									0.95
Platoro	do						.10		.03	.06	T.					.16	.12	.15	.09	.48	.31	.08	.31	.26						T.	T.	T.	2.15
Saguache	do								T.											.53	.40	.20	.10	.45	.25	.10	T.				T.		2.03
San Luis	do								T.	1.47						.50											.03						2.00
Wagon Wheel Gap Exp. Station	do					T.	T.	.08	T.	.01				T.	.05	.13	T.	.08	.32	.38	.40	.23	.01	.11		T.		T.		T.	.02	.01	1.83
New Mexico.																																	
Agricultural College	Rio Grande					T.	T.							.50		T.	.02	T.	T.		T.	.62									.13		1.27
Alamogordo (near)	do								.01																								0.01
Alamogordo	do																		T.			.28											0.28
Alamos Ranch	do							.45			.09			.06				.08	.07	.02	.25		.01	.08								.11	1.22
Albuquerque	do					T.			.01	.34									.05	.06													0.46
Ancho	do																																
Anchor Mine	do					T.				.30	.40								.45	.20			.25	.40								.35	2.35
Artesia	Pecos																				.10												0.10
Aspen Grove Ranch	Rio Grande									.10					.36	.08	.18				.17	.15		.18						.04		.02	1.28
Bateman's Ranch	do						T.		T.		.80			T.		.45	.22	T.	.08		.23	T.	.09							T.			1.87
Berino	do														.34							.66											1.00
Bluewater	do								T.	.30				.25		.10	1.65		.10			.12						T.		T.			2.52
Boaz	Pecos																					.12											0.12
Capitan	do																					.85								.25			1.10
Carlsbad	do																		T.		.23	.22	T.					T.	.25				0.70
Carrizozo	Rio Grande																																
Cerrillos (near)	do								T.	.02				T.	.12	T.	T.	T.	.34	.12	T.	T.	.05						.10			.07	0.82
Chama	do									T.	.30				.28	.10	T.			T.		T.	.35	.70								.05	1.78
Cloudcroft	Pecos																																
Corona	do																				.40												0.40
Coyote	Rio Grande													.04						.04		.03				T.		T.					0.11
Cundiyo	do										.09									.42	.20	.07											0.78
Demonstrat'n Farm	Pecos									.22									.15	.18				.18									0.73
Duran	do																					.10								.55			0.65
Elida	do																									.38							0.38
Escondido	Rio Grande												.30	.12					.18														0.60
Espanola	do										.03					T.	.10			.09			.08								.08		0.38
Estancia	do					.07			T.		.06				.10	T.	T.	T.	.19	.05										.74			1.21
Fort Stanton	Pecos													.25	.30	.11	.50					.60	T.							.15	.16		2.07
Fort Sumner	do															.05				*	.24				.01		T.	T.	T.	T.	.06		0.36
Gallinas	do																		.10	.05											T.		0.15
Gallinas Plant'g Sta	do					.32		T.		.34				T.	T.	T.	.08		*	.73	.36	.10	.13	.16						T.		.02	2.24
Glorieta Ranch	Rio Grande																																
Harvey's Up. Ranch	Pecos					.04		.05		.24					.08	T.	.03	T.	.28	.35	.12	.42	.65	.07						T.	T.	T.	2.
Hobbs	do																				*	1.00				T.			.26	.22			1.48
Hondo Reservoir	do														.02	T.			.10		.01	.10				.27					T.	T.	0.50
Jemez Springs	Rio Grande															.23			.07	.20	.03									.01	.08	.04	0.66
Knowles (near)	Pecos																				.08	.05	T.				T.		1.11	.04			1.28
Laguna	Rio Grande								T.				T.	T.	T.	T.	T.							T.				T.	T.				T.
Lagunita	Pecos																				.18								.07	.31			0.56
Lake Valley	Rio Grande		T.	T.					T.						.48		T.	.04	.22	.30	.42	1.47								.40	.04	T.	3.37
Lakewood	Pecos																							.34									0.34
Lanark	Rio Grande													.80								.45											1.25
Las Vegas	Pecos									.11										.14	.22												0.47
Los Lunas (near)	Rio Grande																			.02		.06											0.08
Magdalena	do							T.	T.			.05		T.	T.	T.	.55	T.	.15	T.	T.	.10	T.	T.	T.	T.			T.			T.	0.85
Mescalero	do			.10	.01			.02				.02		T.		.17	.06		.31	.03	.01	T.							T.	.26	.05		1.04
Mineral Hill	Pecos					T.							.85				.17				.85												1.87
Monterey	Rio Grande								T.						T.	T.	T.	T.	T.	T.	T.	.16								.15	.05		0.36
Mountainair	do													T.	.12			T.		T.	.06									.88	.27		1.33
Mountain Park	do		.14		.10	.18			.18						.24		.06			.10		.06	.15								.21	T.	1.42
Newman	do																					T.	.77										0.77
Nogal (near)	Pecos									T.				.12	.14	.20					.19					.03			.07	.08	.38		1.21
Noria	Rio Grande												T.			.22	.08					1.22									.06		1.58
Orogrande	do	T.		T.							T.								.20			.80								T.			1.00
Oscura	do											.20		.05	.22		.06		.36	.44	.73	.37											2.43
Otis	Pecos																		.11		.05	.26	T.					T.	.54				0.96
Pastura	do													.21		.15														.05			0.41
Placitas (near)	Rio Grande																																
Plainview	Pecos															.01					.83	.23				T.		1.00		.30			2.37
Red River Canyon	Rio Grande				T.	T.	T.	.10	.30								T.	.40	.80	.30	.20	T.		.30	.20		T.			T.			2.60
Richland	Pecos																													.58			0.58
Rincon	Rio Grande														.15	T.					.10		.30										0.55
Rio Grande Dam	do			.06			.32				T.				T.	T.	.15				.34										.17	T.	1.04
Rio Grande Industrial School.	do									.04								T.		.51													0.55
Rosedale	do		.45			.08		.08			.10			T.		.12			.05		.22	.12			.03					.23	.03		1.51
Roswell	Pecos													T.						T.	.40	.02				.39						.01	0.82
San Marcial	Rio Grande																.06	.10	.15														0.31
San Rafael	do							T.	T.				T.		T.	.05	.15	.06		.20										T.			0.46
Santa Fe	do					T.			.03	.12					T.	.02	T.	T.	.16	.09	.11	.01		T.						.07		.51	1.12
Santa Fe Canyon	do							T.	T.	T.						T.	T.	.05		.15	.10		.40	T.						.22		.21	1.13
Santa Rosa	Pecos									.13						T.			.03	.01				.07			.07			.01			0.32
Senorito (near)	Rio Grande																																
Socorro	do															.06			.16	.15	.32											.10	0.79
South Fork	do							.17							.30	.16	.14	.21	.11	.33	.10	.40	.32	.26							.19	.22	2.91
Stanley	do																													.14			0.14
Tajique (near)	do					.29								.16	.03	.11		.06	.09	.23	.22									.52	.03		1.74
Taos	do						.01	T.		.22	.05					.14			.04	.10	.04		.22	.20									1.02
Taos Canyon	do					T.		.12	.15	.44					T.	T.	T.	.08	.05	.30	.14	.11	.30	.32		T.						.01	2.02
Tecolote	do										T.						.40																0.40
Three Rivers	do														.06						T.										T.		0.06
Tijeras Canyon	do					.11	.02		T.						.03	.08		.05	T.	.53	1.04							T.					1.86
Torrance	Pecos																																
Tres Piedras	Rio Grande									.41	.43						.30			.45	.53			.09									2.21
Truchas	do						.06	T.	.02	.53	.17						.20	.02	.28	.32	.14	.10											1.84
Tularosa	do																																
Vaughn	Pecos														.05						.05									T.			

TABLE 2.—*Daily precipitation for July, 1913. District No. 8*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
New Mexico—Con.																																	
Virsylvia	Rio Grande							.02		.06				.02							.03	.20	.08	.09									0.50
Willard	do										.30			T.	.02	.04	T.		T.	.08										.51			0.95
Winsors	Pecos					.03		.15	.63	.02	.12					.05	.01	.21	.03	.60	.32	.06	.74	.51							.06	.30	3.86
Texas.																																	
Abilene	Brazos		.23																						.24	.08	.01					.16	0.72
Albany	do																								.41	.19	.10						0.70
Alice‖	Coast		.35			.25																											0.60
Alpine	Pecos		.20																	T.	T.		1.60										1.80
Alvin	Coast																							1.56								.60	2.16
Anahuac	do		.78		.05			.12		.05			.08										.11										1.19
Angleton	do	.07			.62	T.			.23													.20	T.			.45				T.	T.	T.	1.57
Antelope	Trinity																								.17		T.						0.17
Aspermont	Brazos																								.28	1.17							1.45
Austin	Colorado				T.	T.															T.						T.					.01	0.01
Ballinger‖	do	T.	T.																			T.				.08	.10	.25					0.43
Barstow	Pecos																													.20			0.20
Bay City‖	Colorado			.40				T.						T.			.33														1.80	2.53
Beaumont‖	Neches			.75			.17			.12								.22				.23		.06	T.		.16				T.		1.71
Beeville‖	Coast	T.			.06	.05																									.01		0.12
Big Spring	Colorado																									.32	.65						0.97
Blanco‖	Guadalupe					T.																T.						.06					0.06
Boerne‖	San Antonio				.05																									.28			0.33
Booth‖	Brazos																					.15			.10								0.25
Bowie	Trinity																										.85			T.	T.		0.85
Brady	Colorado																																
Brazoria	Brazos																					T.	T.									.06	0.06
Brazos‖	do		.15																							1.10		.10					1.35
Brenham‖	do			.56	.09						.40			T.				T.				T.											1.05
Bridgeport‖	Trinity																								.82	.43							1.25
Brighton	Coast			T.																										T.			T.
Brownsville	Rio Grande	.02	T.		.24												.02								T.				T.			T.	0.28
Brownwood‖	Colorado	.07	T.																								.68	.05					0.80
Buena Vista	Pecos																					T.	.25										0.25
Cameron‖	Brazos																																
Carmona	Neches		1.26	.22	T.																T.	.32		.01		T.							1.81
Carrizo Springs	Nueces				.20		.25																T.										0.45
Claytonville	Brazos																								.15	1.12	1.07						2.34
Cleburne	do																																
Clifton	do	.05	.81	.25																							.45					.25	1.81
Coleman	Colorado																				T.						T.					T.	T.
Collegeport	Coast																																
College Station	Brazos										.01															.01						.04	0.06
Colorado	Colorado																							.08	.58	.55	1.48						2.69
Columbus‖	do		T.	T.							1.90							T.	T.			T.											1.90
Comanche	Brazos		.02	T.																.11	T.					.04	.85						1.02
Corpus Christi	Coast	.99	.10	T.	.09								T.	T.					T.						T.								1.18
Corsicana‖	Trinity		.10	1.53	T.																	.74											2.37
Cotulla	Nueces																																0.00
Crockett	Trinity		T.	.08																	T.					.21					.02		0.31
Cuero‖	Guadalupe	.10			.06	.02			.02		.75																			.03	.10		1.08
Dallas‖	Trinity			.71	.89																					.41	T.	.47					2.48
Danevang	Coast	.50	.25					.04																								.67	1.46
Del Rio	Rio Grande																										1.52						1.52
Denton	Trinity	.20		.03																	T.			T.	.20	.04	.38	1.70					2.55
Devine	Nueces				T.	.25																T.											0.25
Dialville	Neches		.55	T.																	T.				T.	T.					.50		1.05
Dilley	Nueces	.50																															0.50
Dublin‖	Brazos			.19	.05																							.11					0.35
Duval	Colorado				.09	T.																					T.					T.	0.09
Eagle Pass	Rio Grande		.01		T.																		T.	T.			.10						0.11
Eastland‖	Brazos																									T.	T.	T.					T.
Edna	Lavaca		1.10																21														1.31
El Paso	Rio Grande													T.	.12	T.	.16		T.		.36	.48						T.			.01		1.13
Encinal	Nueces																																
Fairland	Colorado				T.	T.					T.										T.						.22					.21	0.43
Falfurrias	Coast	T.			.19		.18											T.	.73														1.10
Flatonia	Guadalupe		T.	.08		T.							T.				.17												T.				0.25
Flint	Neches	T.	T.	1.02																	.10					T.					T.		1.12
Fort Clark‖	Rio Grande																						T.				1.50						1.50
Fort Davis	Pecos																				.20		.52			.45				.13			1.30
Fort McIntosh	Rio Grande																																0.00
Fort Stockton	Pecos											T.		T.								T.	T.	T.									T.
Fort Worth	Trinity	.82	T.																		.13	T.			1.22	1.28	.73	.18					4.36
Fowlerton	Nueces	.08																															0.08
Fredericksburg	Colorado																				T.	T.					.15						0.15
Gail	do																							.25	.25	1.15							1.65
Gainesville	Trinity	.30																			1.02						1.95						3.27
Galveston	Coast		T.	T.	.01				.02			T.	.25	T.			T.	.02			.01		1.17	T.				T.				1.48
Garden City	Colorado																				T.						.26						0.26
Gatesville	Brazos																										.25					.05	0.30
Georgetown‖	do																																0.00
Goliad	San Antonio			.24	.12																												0.36
Gonzales‖	Guadalupe	.08	.20			.38																											0.66
Goree	Brazos		T.																						1.52	.55							2.07
Gorham‖	do		T.																		T.												T.
Graham	do																								T.	T.	.37						0.37
Grand Falls	Pecos																				T.			T.									T.
Grand Saline	Sabine	.81	.74	1.60																	T.											T.	3.15
Grapevine	Trinity	.36	.90																						1.43	.38		1.59					4.66
Greenville‖	Sabine		4.00	5.70	.85																	.05					.35						10.95
Hallettsville	Lavaca		.10	T.		.20							T.				.22	T.											.18	T.			0.70
Hamlin	Brazos																									2.60	.75						3.35
Harlingen‖	Coast		.33						.08																					.15		.05	0.61
Harper	Colorado																										.24						0.24
Haskell‖	Brazos	.16																								1.36	.26						1.78
Hayflat	Pecos																																
Hebbronville	Coast																																0.00
Hempstead‖	Brazos		T.	T.	.40																												0.40
Henderson	Neches	.15	.12	.07							.05										.40										.28		1.07

TABLE 2.—*Daily precipitation for July, 1913. District No. 8*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Continued.																																	
Hewitt	Brazos		.60								.27																					.15	1.02
Hico	do		1.00																						.10	.03	.31					T.	1.44
Hillsboro	do		.20	.03																							.14						0.37
Hondo ‖	Nueces					.08																											0.08
Houston	Coast	.23	T.		.01				T.								T.				.16			T.	T.	T.			T.	T.	.09	.88	1.37
Huntsville ‖	Trinity			T.	T.																											T.	T.
Jayton	Brazos																								.15	.28	.60						1.03
Jewett ‖	Trinity			T.																													T.
Junction	Colorado																																
Kaufman	Trinity	T.	3.00	.65																													3.65
Kerrville ‖	Guadalupe	T.				T.																	.14					.30					0.44
Knickerbocker	Colorado																										.90						0.90
Kopperl ‖	Brazos			1.40	T.																						T.	.70					2.10
Lagrange	Colorado			1.80	.10					T.							.03									T.			.05		T.	.03	2.01
Lamesa	do																									1.11							1.11
Lampasas ‖	Brazos											.09																.15				.05	0.29
La Parra	Coast	.55																.10															0.65
Laredo ‖	Rio Grande	T.			.40	.20																											0.60
Laureles Ranch	Coast																																
Liberty ‖	Trinity	T.	.26	T.	.14										T.		T.								T.					T.	T.	.25	0.65
Llano ‖	Colorado											.03										T.						T.					0.03
Llano Grande ‖	Rio Grande	.33			.32		T.											2.00											T.				2.65
Long Lake ‖	Trinity		.40																				T.										0.40
Longview ‖	Sabine	.64	1.56	.27																		.70										.15	3.32
Lubbock	Brazos	T.																									.40						0.40
Lufkin	Neches		.98														.05				.80					T.							1.83
Luling ‖	Guadalupe				.02	.02																								T.			0.04
Lyford	Coast																																
McGregor	Brazos																																0.00
McKinney	Trinity	.32	1.06	.92																	.14				2.08	.09	T.	1.55					6.16
Marathon	Rio Grande																					.45	.98		.25				2.20				3.88
Marble Falls ‖	Colorado					T.						T.																					T.
Marfa	Rio Grande																																0.00
Marshall	Sabine	.94	.80								.20															.62					.22		2.78
Matagorda	Coast																																0.00
Mexia ‖	Brazos			T.	T.							.25										.21											0.46
Midland	Colorado																				.42							.85					1.27
Mission ‖	Rio Grande																																
Mont Belvieu	Coast	.58	.44	.09						.02							.07						.02		T.							.86	2.08
Montell	Nueces	.02																				T.	.44			2.14							2.60
Mount Blanco	Brazos																							1.05	T.								‡1.05
Nacogdoches ‖	Neches		T.	T.																		.81			T.	T.	T.					T.	‡0.81
New Braunfels	Guadalupe				.47																						T.		T.			.93	‡1.40
Palestine	Trinity		.68																		.03					T.							0.71
Panter	Brazos																				T.		T.			T.	.13			T.		T.	0.13
Pearsall	Nueces	T.			T.																		.25				.02		T.				0.27
Pierce ‖	Colorado		.44	.36					.07													.04		.05			.56						1.52
Plainview	Brazos																				.08			T.	.06	2.60	.15						‡2.89
Port Lavaca	Coast	.28						T.																								.46	0.74
Post	Brazos																								.17	1.55							1.72
Putnam	do																																0.00
Raymondville ‖	Coast	.03	.01			.33	.07		T.											3.40						T.				.06	T.		3.90
Ricardo	do	.15																															0.15
Rio Grande ‖	Rio Grande					.50																											0.50
Riverside ‖	Trinity		.20	1.25																												T.	1.45
Rockland ‖	Neches				.60																	.10											0.70
Rockport	Coast	T.		.05	.15	T.							.06														T.	T.	.01	.01			0.28
Rossville	Nueces	.64			.09	.10		T.															T.				T.				T.	T.	0.83
Runge	San Antonio																																0.00
Sabinal	Nueces																					.65					.21						0.86
Salado	Brazos																															.92	0.92
San Angelo	Colorado																										.60						0.60
San Antonio	San Antonio				.03																		T.										0.03
San Augustine	Neches	.18	.80	.59									T.								1.07				T.	T.	T.			.01			2.65
San Juanito	Coast	.04			.02													T.										.03	.05				0.14
San Marcos ‖	Guadalupe																																0.00
San Saba	Colorado																										.22						0.22
Santa Anna	do																																0.00
Santa Gertrudes ‖	Coast	.23	.38																														0.61
Sealy	Brazos	T.	T.	T.		.12																							T.			.47	0.59
Seymour	do	.13																												.25			0.38
Snyder ‖	Colorado	.65																								.80	1.13						2.58
Somerville	Brazos		T.																														T.
Sonora	Rio Grande																						T.				1.83						1.83
Spur ‖	Brazos	.17																			T.					.12	.41						0.70
Stamford	do																								1.15		.40						1.55
Sugarland ‖	do		.10	.12																	.20								.52			.11	1.05
Sutherland Springs	San Antonio																																0.00
Tahoka	Brazos																									.17	.36						0.53
Taylor	do										T.															T.						.01	0.01
Temple ‖	do			.50																													0.50
Thurber	do																									.24	.12						0.36
Tivoli	Guadalupe		.20																														0.20
Uvalde	Nueces																						.60								.25		0.85
Valley Junction ‖	Brazos																																0.00
Victoria ‖	Guadalupe							.30																									0.30
Waco	Brazos			.15																		T.											0.15
Waxahachie ‖	Trinity		.88	.62	.18																	.08				.57		T.					2.33
Weatherford ‖	do		.13																							1.05	T.	.45					1.63
Wills Point	Sabine	.60	2.35	.20																													3.15
Winters	Colorado																								.88	.97						.52	2.37

* Precipitation included in that of the next measurement.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
‡ Separate dates of falls not recorded.
T Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for July, 1913. District No. 8, Texas and Rio Grande Valley.*

Date.	Colorado.				New Mexico.																Texas.							
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountainair.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Spring.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	82	43	79	37	97	61	97	65	87	52	92	54	88	53	96	65	83	58	94	61	93	72	84	67	87	73	85	75
2....	86	41	82	45	95	65	96	65	86	51	93	60	84	51	93	64	85	67	93	61	98	73	86	69	87	.....	85	75
3....	86	41	81	48	98	66	100	66	92	50	95	54	86	54	94	64	86	58	99	59	94	75	86	70	87	.....	85	76
4....	87	41	83	42	99	66	100	67	89	50	98	48	86	55	96	66	87	60	99	61	93	73	93	72	85	.....	84	76
5....	88	47	83	44	99	65	97	66	91	50	96	48	90	56	94	65	89	60	95	63	92	73	93	72	86	.....	84	77
6....	87	50	85	50	96	64	96	65	87	51	90	54	88	56	91	67	86	63	92	61	95	70	96	71	87	.....	87	76
7....	90	45	85	48	96	69	96	61	90	54	96	53	88	55	93	63	87	62	99	63	97	75	98	68	89	.....	90	73
8....	86	48	82	47	101	66	99	64	92	50	93	52	88	60	95	62	87	63	97	61	98	72	98	69	90	.....	87	75
9....	84	46	83	51	100	65	98	64	90	56	95	55	87	58	94	62	81	59	96	61	99	71	98	72	87	.....	88	73
10....	85	45	77	52	100	69	101	60	93	54	94	52	88	60	95	61	82	56	98	67	102	72	102	69	91	69	88	74
11....	88	50	83	49	104	69	109	67	100	54	96	54	88	59	103	68	90	60	103	69	101	77	105	76	87	75	88	75
12....	85	43	84	47	102	73	105	69	93	61	99	53	92	60	98	68	86	63	95	68	95	74	98	73	87	78	85	78
13....	87	43	83	48	101	73	104	68	92	55	99	57	90	65	99	69	90	66	100	66	96	77	96	74	89	78	85	78
14....	86	49	83	49	92	62	103	69	86	53	93	54	85	56	98	72	86	59	100	60	100	74	104	72	88	76	85	78
15....	82	49	80	45	92	67	102	67	88	55	90	50	80	55	98	68	82	59	97	63	97	74	98	70	89	74	85	76
16....	82	49	82	47	94	69	99	63	87	50	92	49	84	52	94	65	81	59	95	61	96	72	96	69	89	71	86	75
17....	83	45	84	46	92	60	96	60	84	48	89	49	85	55	92	60	84	59	94	59	95	73	97	70	89	71	87	74
18....	80	49	81	44	92	65	97	63	84	50	90	54	80	55	92	65	78	55	91	61	97	73	96	69	89	73	86	76
19....	85	49	83	44	91	63	95	60	87	51	92	56	80	50	88	64	74	53	89	62	98	72	99	68	91	72	86	73
20....	71	50	80	41	89	63	92	67	85	49	88	48	78	50	82	64	70	55	79	61	91	73	93	68	96	71	94	72
21....	75	48	80	40	76	65	83	65	84	51	81	43	72	50	82	63	75	55	85	56	94	66	96	66	92	72	92	75
22....	76	46	77	39	83	60	90	65	75	49	85	48	72	45	88	62	77	52	92	57	98	72	100	67	94	73	92	74
23....	74	45	78	41	89	56	96	61	83	50	86	54	78	50	91	60	75	55	91	62	102	73	103	67	91	75	90	76
24....	76	43	76	41	92	53	97	66	85	47	90	56	82	52	92	64	79	52	91	54	101	71	103	72	88	76	86	76
25....	78	41	74	39	92	58	93	67	82	47	91	52	82	50	91	64	79	54	90	57	94	68	96	67	89	76	87	78
26....	79	39	73	38	93	57	96	62	87	43	88	53	82	48	93	59	79	55	93	56	81	67	85	62	89	76	86	78
27....	77	37	74	36	92	57	100	62	86	49	88	57	80	46	96	58	78	54	94	54	96	70	95	66	90	76	86	77
28....	79	35	75	34	91	60	91	66	84	51	86	42	82	50	90	64	79	52	91	59	96	74	95	72	90	73	85	77
29....	81	36	78	39	90	66	91	65	84	49	82	40	78	50	87	64	80	59	88	58	96	73	96	68	92	70	89	76
30....	78	42	77	39	91	60	93	64	81	49	89	47	78	50	90	65	80	52	94	57	98	72	96	67	91	70	89	75
31....	82	40	84	37	90	60	98	62	82	50	82	50	80	54	88	64	76	56	89	61	100	72	99	67	91	70	90	74
Mns..	79.2	44.4	80.3	43.5	93.8	63.6	97.1	64.5	87.0	50.9	90.9	51.5	83.3	53.5	92.7	64.2	81.6	57.7	93.6	60.6	96.2	72.4	96.1	69.3	89.3	73.4[h]	87.2	75.5

Texas.

Date.	Del Rio.		El Paso.		Fort McIntosh		Fort Stockton.		Fort Worth.		Galveston.		Hallettsville.		Houston.		Lufkin.		Palestine.		Plainview.		San Antonio.		Seymour.		Taylor.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	90	75	97	70	95	75	93	67	89	74	86	79	96	74	88	75	93	72	90	74	87	62	92	74	.....	.....	92	74
2....	92	74	95	70	97	75	91	65	85	72	85	76	97	76	86	75	90	72	87	72	89	65	90	75	.....	.....	92	76
3....	92	74	97	72	95	75	96	65	85	74	86	80	91	74	86	74	85	70	87	73	92	65	90	74	.....	.....	90	75
4....	91	75	99	70	95	73	95	66	90	74	86	76	94	74	90	74	91	71	91	73	90	65	90	73	.....	.....	91	73
5....	91	74	97	75	95	71	93	67	92	74	86	79	97	72	92	74	94	69	92	72	90	65	92	73	.....	.....	93	73
6....	92	74	94	72	98	72	93	67	98	75	90	78	97	73	95	74	97	71	93	74	91	63	94	73	.....	.....	95	72
7....	95	72	96	72	95	75	96	65	99	78	94	78	99	73	96	74	100	68	97	74	93	62	97	73	.....	.....	99	72
8....	94	74	99	72	100	75	97	64	100	76	95	76	102	73	99	76	104	72	99	77	94	62	96	72	.....	.....	99	73
9....	98	72	98	74	103	68	99	68	104	75	87	79	101	75	97	75	101	72	97	75	96	63	99	71	.....	.....	100	74
10....	97	74	100	73	100	75	101	66	106	78	90	79	100	75	96	76	97	72	96	75	96	64	98	74	.....	.....	98	75
11....	98	72	104	79	101	75	106	74	102	78	86	81	98	77	92	75	94	75	93	75	101	69	96	72	.....	.....	97	75
12....	94	76	102	78	100	76	100	71	95	75	86	76	98	75	91	76	95	72	93	73	96	67	94	74	.....	.....	96	73
13....	97	78	100	75	101	71	104	72	97	77	86	80	98	77	92	75	95	72	94	73	94	68	95	76	.....	.....	95	76
14....	97	76	94	69	100	75	103	72	99	75	86	80	98	76	93	74	95	72	94	74	98	69	96	74	.....	.....	95	77
15....	96	77	95	69	101	72	100	70	97	74	86	80	98	76	93	74	96	69	94	72	96	69	95	75	.....	.....	95	73
16....	94	72	95	69	101	73	95	67	94	75	88	77	99	72	93	74	96	70	93	73	94	62	94	72	.....	.....	93	71
17....	95	75	93	68	99	75	96	65	95	76	87	79	98	72	94	74	97	70	94	73	92	59	94	74	.....	.....	94	70
18....	95	73	95	64	93	73	95	65	98	74	87	78	96	70	94	74	98	69	95	73	94	63	94	72	.....	.....	93	70
19....	97	74	92	67	99	73	94	62	102	74	88	76	98	72	97	73	103	69	97	74	94	62	96	71	.....	.....	98	72
20....	99	74	87	62	104	74	93	64	97	73	99	75	102	72	101	74	102	67	99	70	88	63	101	74	.....	.....	102	73
21....	98	76	80	61	101	72	95	66	93	71	90	77	97	74	94	72	96	69	92	67	89	58	96	74	.....	.....	96	71
22....	98	74	85	63	102	88	95	64	98	70	87	77	99	74	94	76	96	72	93	71	96	65	96	76	.....	.....	97	73
23....	99	72	90	64	102	78	98	63	102	74	85	78	102	76	96	77	96	70	97	72	99	66	100	74	.....	.....	100	73
24....	99	77	94	62	102	76	99	71	103	65	86	80	99	75	93	75	95	73	94	75	97	62	96	73	.....	.....	96	73
25....	97	78	93	71	100	76	95	72	91	66	87	81	101	77	92	77	94	76	94	76	94	58	96	76	.....	.....	96	76
26....	88	66	94	64	102	76	94	64	93	69	86	81	99	76	93	75	96	72	95	74	82	60	96	76	.....	.....	94	75
27....	94	71	94	66	102	76	101	65	96	70	87	81	100	77	94	75	99	71	97	75	92	63	97	74	.....	.....	97	76
28....	94	72	90	67	101	76	95	69	96	76	87	81	95	75	92	76	100	73	96	75	88	61	94	73	.....	.....	95	72
29....	94	72	88	65	99	74	96	61	96	74	87	80	96	73	95	75	99	70	95	72	89	61	98	73	.....	.....	96	71
30....	95	74	90	67	100	78	96	65	100	74	87	80	97	73	95	74	98	72	96	76	90	61	96	73	.....	.....	98	72
31....	98	74	88	68	100	78	97	68	100	76	89	77	100	75	95	72	96	68	92	71	95	61	100	74	.....	.....	99	75
Mns..	95.1	73.9	94.0	69.0	99.5	74.8	96.8	66.8	96.5	73.7	87.8	78.5	98.1	74.3	93.5	74.6	96.4	71.0	94.1	73.3	92.8	63.3	95.4	73.6	.....	.....	95.8	73.4

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.