CLIMATOLOGICAL DATA FOR AUGUST, 1913.

DISTRICT NO. 8, TEXAS AND RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

GENERAL SUMMARY.

The warm, dry weather of July continued throughout August. The sunshine was again excessive and the number of rainy days below the average. The mean temperatures were well above the normal in the northern portions of the district, and near normal or slightly below in southern New Mexico and in southwestern Texas. While the day temperatures were persistently high, there was no exceptionally hot weather such as occurred in Oklahoma and Kansas.

During the last 26 years there were only 4 years in which August was drier in Texas than in the current month, but the combined rainfall for July and August of this year is the lowest of record during this period. The protracted dry, hot weather was destructive to vegetation in many localities and cut short the cotton crop in central and northern Texas. The deficiency of precipitation was most marked in eastern New Mexico and in northern Texas, while excesses occurred at a few scattered stations in the middle Rio Grande Valley and in southern and central Texas. The drought was not general over any considerable area, owing to the local character of the rainfall. Several observers remarked that while there were good rains in portions of their counties, the crops were burning up in other portions because of lack of moisture. An unusual feature of the weather was the large number of dry thunderstorms or of thunderstorms that were attended by inappreciable amounts of precipitation only. Showers occurred daily in some portion of the district, but there were no well-defined storm periods. The average number of days with 0.01 inch or more of precipitation was 9 in Colorado, 7 in New Mexico, and 4 in Texas. A trace of snow occurred at Taos Canyon, N. Mex.

The greatest and least monthly amounts of precipitation were, respectively, in Colorado, 3.56 inches at Platoro, and 0.50 inch at Manassa; in New Mexico, 4.83 inches at Harveys Upper Ranch, and none at Elida; and, in Texas, 8.93 inches at Beaumont, and none at 12 stations, while a trace only occurred at 10 others. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 4 stations in Texas, the heaviest being 5.27 inches at Beaumont on the 18th.

TEMPERATURE.

The monthly mean temperature was 2° above the normal in Colorado, 0.1° below in New Mexico, and 1.4° above in Texas. There were no well-defined warm or cool periods, and both the highest and lowest temperatures of the month were generally recorded during the first decade, except in the eastern half of Texas, where the coolest nights occurred between the 24th and 27th. The day temperatures were uniformly high and aggravated the injurious effects of the dry weather. The mean daily range of temperature varied from 10° on the Texas coast to 37° in the western portion of the district.

The highest and lowest temperatures reported were, respectively, in Colorado, 92° at Saguache on the 3d, and 26° at Hermit on the 16th; in New Mexico, 105° at Artesia on the 8th, and 32° at Red River Canyon on the 2d; and, in Texas, 110° at Graham on the 26th, and 53° at Marathon on the 12th and at Boerne on the 26th. The local monthly means ranged from 52.8° to 67.2° in Colorado, from 56.4° to 79.7° in New Mexico, and from 71.7° to 88.2° in Texas.

PRECIPITATION.

The average precipitation for the Rio Grande watershed was 1.63 inches, which is 0.49 inch less than the normal. Good showers occurred locally in the middle portions of the watershed, but elsewhere the deficiency was general.

The Rio Pecos watershed had an average precipitation of 1.87 inches, which is 1.01 inches less than the normal. All stations in this watershed had less than the normal amount, but the deficiency was most marked over the Texas portion.

Of the Texas watersheds the Guadalupe and Lavaca received more than the normal amount of moisture with an excess of 0.41 inch for the former and of 0.50 inch for the latter watershed. The remaining Texas watersheds showed deficiencies ranging from 0.46 inch for the Colorado watershed to 1.80 inches for that of the Sabine. Little or no rain occurred at a number of stations in the upper portions of the Brazos, Trinity, and Sabine drainage areas, and over the lower coastal plains. Good local showers were reported from the upper Texas coast and from the lower portions of the Colorado and Brazos watersheds. The following are the monthly amounts in inches and hundredths for the various Texas watersheds: Nueces, 1.43; San Antonio, 1.35; Guadalupe, 2.47; Lavaca, 2.48; Colorado, 1.61; Brazos, 1.07; Trinity, 0.78; Neches, 2.03; Sabine, 0.45; and coastal plains, 1.51.

RIVER CONDITIONS.

Slight rises occurred in the middle Trinity between the 3d and 6th, and in the lower Colorado on the 10th; but during the latter half of the month these and all other streams in the district were practically at low-water mark.

MIDSUMMER SHOWERS AT GALVESTON, TEX.

By W. P. STEWART, Local Forecaster.

The convectional showers which occur with considerable regularity during the summer months over the mainland near the east Texas coast fall only occasionally on Galveston Island. The reason for this is that the southerly winds usually prevailing when these showers occur have practically the same temperature as the waters of the Gulf of Mexico, from which they have just come. They are, therefore, comparatively cool, and have little tendency to rise. After they have passed inland a few

TABLE 1.—*Climatological data for August, 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	62.6	.....	83	4†	41	2†	40	2.01	.....	0.70	0	10	24	7	0	w.	Lewis F. Botens.
Cumbres	Conejos	10,015	6	.....	.....	.....	.....	.....	.....	.....	0.81	.....	0.75	0	5	3	28	0	.....	Mrs. Ida M. Lively.
Garnett	Costilla	7,576	20	63.6	+ 2.7	85	2†	40	4†	45	0.56	− 0.72	0.22	0	4	7	20	4	ne.	Charles Speiser.
Hermit	Hinsdale	9,843	6	52.8	.....	79	2	26	16	48	2.47	.....	0.90	0	8	17	10	4	.....	Miss Marion Mason.
La Veta Pass	Costilla	9,000	3	.....	.....	.....	.....	.....	.....	.....	2.85	.....	0.76	0	11	5	21	5	w.	Clara M. Wright.
Manassa	Conejos	7,700	7	63.9[b]	.....	86[b]	4†	40[b]	31	45[b]	0.50	.....	0.11	0	6	3[b]	15[b]	11[b]	sw.	J. B. Chapman.
Platoro	do	9,675	6	.....	.....	.....	.....	.....	.....	.....	3.56	.....	0.96	0	17	13	7	11	w.	Walter R. Hook.
Saguache	Saguache	7,740	21	67.2	+ 4.5	92	3	41	14	45	1.80	+ 0.41	0.40	0	8	7[a]	2[a]	21[a]	w.	Eugene Williams.
San Luis	Costilla	7,794	22	61.6	− 0.4	85	5	38	3	45	0.84	− 0.75	0.25	0	8	10	18	3	sw.	P. B. Albright.
Wagon Wheel Gap Experiment Station.	Mineral	9,616	14	56.1	+ 1.2	77	4	37	16	38	2.08	− 0.11	0.74	0	13	1	24	6	.....	U. S. Weather Bureau.
New Mexico.																				
Agricultural College	Dona Ana	3,863	52	77.2	− 2.2	95	6†	57	1†	36	1.33	− 0.37	0.57	0	11	11	15	5	se.	New Mexico Agricultural Col.
Alamogordo (near)	Otero	4,338	16	76.4	− 1.6	99	4†	48	31	40	1.87	− 0.47	0.34	0	7	20	11	0	s.	Edward LeBreton.
Alamogordo	do	4,320	4	75.6	.....	95	5	58	26	30	1.17	.....	0.37	0	5	18	13	0	s.	Agent E. P. & S. W. R. R.
Alamos Ranch	Sandoval	7,800	3	.....	.....	.....	.....	.....	.....	.....	1.34	.....	0.68	0	5	29	2	0	.....	H. H. Brook.
Albuquerque	Bernalillo	4,960	37	.....	.....	.....	.....	.....	.....	.....	0.59	− 0.67	0.32	0	8	16	14	1	sw.	Pitt Ross, C. E.
Ancho	Lincoln	6,112	4	.....	.....	.....	.....	.....	.....	.....	2.52	.....	1.05	0	9	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Anchor Mine	Taos	10,600	2	.....	.....	.....	.....	.....	.....	.....	3.14	.....	0.95	0	11	4	15	12	sw.	C. H. Brigham.
Artesia	Eddy	3,350	5	79.0	.....	105	8	54	30	44	0.48	.....	0.47	0	3	28	3	0	se.	Will Benson, C. E.
Aspen Grove, Ranch	Rio Arriba	9,000	4	.....	.....	.....	.....	.....	.....	.....	1.07	.....	0.24	0	10	0	31	0	.....	Junius D. Maupin.
Batemans Ranch	do	8,900	4	.....	.....	.....	.....	.....	.....	.....	2.10	.....	1.17	0	7	12	18	1	e.	John W. Bateman.
Berino	Dona Ana	3,788	2	.....	.....	.....	.....	.....	.....	.....	0.59	.....	0.35	0	3	.....	.....	.....	.....	J. C. Rishaberger.
Bluewater	Valencia	6,732	11	66.0	− 1.2	92	5	40	16	50	1.28	− 0.35	0.65	0	3	7	24	0	sw.	Bluewater Development Co.
Boaz	Chaves	4,154	4	75.8	.....	100	7†	48	4	47	0.04	.....	0.04	0	1	13	18	0	s.	William Horner.
Capitan	Lincoln	6,348	4	.....	.....	.....	.....	.....	.....	.....	0.89	.....	0.79	0	2	5	16	10	w.	Agent E. P. & S.W. R. R.
Carlsbad	Eddy	3,120	18	79.6	− 0.3	101	9†	58	26	37	0.84	− 1.25	0.31	0	5	18	11	2	se.	U. S. Reclamation Service.
Carrizozo	Lincoln	5,438	5	74.0	.....	95	5	50	12	39	1.97	.....	0.75	0	9	29	1	1	se.	Agent E. P. & S. W. R. R.
Cerrillos (near)	Santa Fe	5,700	1	71.7	.....	95	7	47	30	40	1.79	.....	0.67	0	7	4	26	1	se.	Irving C. Sweet.
Chama	Rio Arriba	7,851	15	64.0	0	87	4	44	16†	41	1.13	− 1.42	0.40	0	4	19	12	0	sw.	Frank C. Johnson.
Cloudcroft	Otero	8,650	11	56.4	− 0.3	70	11	44	4†	26	2.15	− 1.86	1.00	0	8	7	24	0	.....	Agent E. P. & S. W. R. R.
Corona	Lincoln	6,636	4	68.0	.....	84	4†	45	31	38	1.52	.....	0.53	0	6	9	20	2	sw.	Do.
Coyote	do	5,800	4	.....	.....	.....	.....	.....	.....	.....	2.12	.....	0.89	0	8	20	8	3	sw.	Do.
Cundiyo	Santa Fe	6,889	4	.....	.....	.....	.....	.....	.....	.....	1.16	.....	0.50	0	6	9	13	9	w.	Juan Vijil.
Demonstration Farm	San Miguel	6,800	4	.....	.....	.....	.....	.....	.....	.....	1.73	.....	0.97	0	4	.....	.....	.....	.....	C. C. Clayton.
Duran	Torrance	6,272	4	71.0	.....	90	16	52	25	34	0.51	.....	0.20	0	5	15	2	14	.....	Agent E. P. & S. W. R. R.
Elida	Roosevelt	4,345	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	.....	.....	.....	.....	A. J. Evans.
Escondido	Otero	4,014	4	.....	.....	.....	.....	.....	.....	.....	0.38	.....	0.34	0	2	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Espanola	Rio Arriba	5,590	15	72.0	+ 0.7	95	5†	48	4	46	0.61	− 1.02	0.30	0	4	25	6	0	s.	Mrs. E. F. McBride.
Estancia	Torrance	6,140	8	69.2	.....	94	4†	42	6	50	0.73	− 0.94	0.25	0	8	13	12	6	sw.	Estancia Drug Co.
Fort Stanton	Lincoln	6,231	36	68.1[d]	+ 0.8	91[d]	8†	45[d]	4	42[d]	1.37	− 2.11	0.50	0	4	16	15	0	nw.	U. S. Sanitarium.
Fort Sumner	Guadalupe	3,960	10	76.4	.....	100	10	52	3†	41	0.52	− 2.08	0.12	0	11	21	9	1	se.	Peter Yocky.
Gallinas	Lincoln	6,635	4	.....	.....	.....	.....	.....	.....	.....	1.30	.....	0.40	0	6	11	11	9	sw.	Agent E. P. & S. W. R. R.
Gallinas Planting Sta.	San Miguel	7,500	6	63.4	.....	86	16	45	1†	37	3.10	.....	0.62	0	16	11	17	3	sw.	U. S. Forest Service.
Glorieta Ranch	Socorro	6,300	3	.....	.....	.....	.....	.....	.....	.....	1.07	.....	0.80	0	5	22	9	0	s.	Chas. M. Crossman.
Harveys Upper Ranch	San Miguel	9,400	4	58.7	.....	78	16	39	4	38	4.83	.....	0.70	0	17	8	22	1	w.	R. B. Schoonmaker.
Hobbs	Eddy	3,800	....	78.8	.....	101	9	57	3	35	2.43	.....	1.75	0	2	24	7	0	s.	E. H. Byers.
Hondo Reservoir	Chaves	3,904	4	77.8[e]	.....	100	8†	57[f]	3	36[f]	0.43	.....	0.37	0	2	19	10	2	se.	U. S. Reclamation Service.
Jemez Springs	Sandoval	6,100	3	68.0	.....	87	5	51	30†	33	2.09	.....	0.75	0	11	3	11	17	sw.	Mrs. L. L. Shields.
Knowles (near)	Eddy	4,300	3	77.8	.....	100	9	56	3	36	0.52	.....	0.49	0	2	18	13	0	se.	J. W. Mosley.
Laguna	Valencia	5,840	10	74.8	.....	103	15	42	2	51	0.35	− 1.03	0.35	0	1	.....	.....	.....	w.	Guss Weiss.
Lagunita	Guadalupe	4,500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. A. Turnbull.
Lake Valley	Sierra	5,412	8	.....	.....	.....	.....	.....	.....	.....	2.67	.....	0.80	0	13	6	25	0	sw.	William P. Keil.
Lakewood (near)	Eddy	3,170	1	79.2	.....	102	8†	59	14†	38	0.15	.....	0.15	0	1	27	3	1	se.	Mrs. J. K. Boyd.
Lanark	Dona Ana	4,156	14	.....	.....	.....	.....	.....	.....	.....	0.25	− 1.52	0.15	0	2	0	31	0	w.	Agent So. Pac. R. R.
Las Vegas	San Miguel	6,385	26	67.7	0	91	16	45	4	42	1.33	− 1.95	0.46	0	8	25	0	6	sw.	New Mexico Normal Univ.
Los Lunas (near)	Valencia	4,900	24	73.5	− 0.5	98	5	47	30	46	0.46	− 0.59	0.15	0	7	6	25	0	.....	Richard Pohl.
Magdalena	Socorro	6,556	8	68.3	.....	90	17	51	1†	36	3.32	+ 0.21	1.10	0	10	7	24	0	se.	William Pender.
Mescalero	Otero	6,627	2	64.0	.....	81	9†	45	4†	35	4.52	.....	0.90	0	18	7	13	11	ne.	Rev. R. H. Harper.
Mineral Hill	San Miguel	7,050	8	.....	.....	.....	.....	.....	.....	.....	3.40	.....	0.75	0	7	0	28	3	sw.	W. M. Nelson.
Monterey	Otero	4,436	4	.....	.....	.....	.....	.....	.....	.....	1.37	.....	0.65	0	9	9	22	0	s.	Agent E. P. & S. W. R. R.
Mountainair	Torrance	6,390	11	69.2	+ 0.4	92	2†	45	6†	44	4.30	+ 1.49	1.46	0	14	13	12	6	sw.	Miss Julia Hill.
Mountain Park	Otero	7,100	1	.....	.....	.....	.....	.....	.....	.....	3.11	.....	0.57	0	16	14	6	4	e.	Charles E. Beasley.
Newman	do	3,989	4	.....	.....	.....	.....	.....	.....	.....	0.35	.....	0.15	0	4	25	0	6	.....	Agent E. P. & S. W. R. R.
Nogal (near)	Lincoln	8,000	....	.....	.....	.....	.....	.....	.....	.....	3.50	.....	0.74	0	16	3	28	0	e.	H. E. Kellar.
Noria	Dona Ana	4,114	4	.....	.....	.....	.....	.....	.....	.....	1.35	.....	0.72	0	6	16	4	11	w.	Agent E. P. & S. W. R. R.
Orogrande	Otero	4,171	4	.....	.....	.....	.....	.....	.....	.....	1.15	.....	0.53	0	7	5	26	0	.....	Do.
Oscura	Lincoln	5,016	4	.....	.....	.....	.....	.....	.....	.....	1.69	.....	0.72	0	7	.....	.....	.....	.....	Eugene F. Jones.
Otis	Eddy	3,100	4	.....	.....	.....	.....	.....	.....	.....	0.95	.....	0.45	0	5	19	7	5	se.	A. M. Hove.
Pastura	Guadalupe	5,285	4	.....	.....	.....	.....	.....	.....	.....	0.52	.....	0.35	0	3	6	9	16	sw.	Agent E. P. & S. W. R. R.
Plainview (near)	Chaves	4,300	2	77.8	.....	100	10	54	3	38	0.70	.....	0.31	0	4	16	12	3	s.	L. P. Adair.
Red River Canyon	Taos	8,956	6	59.8	.....	86	2†	32	2†	54	3.13	.....	1.00	0	8	12	18	1	w.	Mrs. L. R. Penn.
Richland	Chaves	.....	....	74.9	.....	99	22	48	3	47	0.71	.....	0.60	0	3	8	22	1	se.	K. H. Embree.
Rincon	Dona Ana	4,030	19	76.4	− 1.4	97	6	52	30	38	1.74	− 0.92	0.50	0	5	4	23	4	se.	C. H. Raitt.
Rio Grande Dam	Sierra	4,265	23	78.6	+ 1.7	98	3	57	28	35	2.90	+ 0.29	1.70	0	7	5	26	0	w.	U. S. Reclamation Service.
Rio Grande Industrial School.	Bernalillo	5,000	2	72.8	.....	95	3	50	4	43	0.26	.....	0.09	0	4	13	14	4	sw.	Rev. A. C. Heyman.
Rosedale	Socorro	6,910	8	66.4	.....	86	5	50	1†	33	2.91	.....	0.92	0	10	15	13	3	w.	Mrs. J. J. McInness.
Roswell	Chaves	3,578	19	77.6	+ 1.2	97	10	57	30	34	0.28	− 1.18	0.16	0	5	10	19	2	s.	U. S. Weather Bureau.
San Marcial	Socorro	4,454	16	79.7	+ 2.4	101	10	56	1†	41	1.09	− 0.91	0.35	0	5	15	10	6	ne.	Agent A. T. & S. F. R. R.
San Rafael	Valencia	6,509	16	72.0	+ 2.1	102	6	45	16	55	1.88	− 0.76	0.50	0	7	22	8	1	sw.	Dr. Chas. M. Grover.
Santa Fe	Santa Fe	7,013	40	68.6	+ 1.6	87	16	54	23	29	1.07	− 1.29	0.41	0	13	5	24	2	e.	Section Center.
Santa Fe Canyo	do	8,000	3	.....	.....	.....	.....	.....	.....	.....	1.67	.....	0.56	0	10	6	24	1	e.	Mrs. E. M. Gregory.
Santa Rosa	Guadalupe	4,624	12	76.6	.....	99	15	52	4	41	0.66	− 2.27	0.26	0	6	15	7	9	s.	H. V. B. Smith.
Senorito (near)	Sandoval	7,500	1	59.6	.....	85	8†	35	4†	40	2.05	.....	0.49	0	15	3	24	4	w.	James Curry.
Socorro	Socorro	4,600	21	76.2	0	99	4†	50	25†	43	1.10	− 0.27	0.25	0	11	27	4	0	se.	J. J. Leeson.
South Fork	Taos	8,405	....	.....	.....	.....	.....	.....	.....	.....	3.68	.....	0.90	0	10	16	5	10	se.	Frank Hamm, jr.
Stanley	Santa Fe	6,317	4	68.0	.....	95	16	41	30	48	1.05	.....	0.31	0	7	6	11	14	e.	D. C. Kinsell.
Tajique (near)	Torrance	9,820	3	57.8[i]	.....	76	16	45	29	25	2.43	.....	0.62	0	15	8	17	6	.....	A. Rea.
Taos	Taos	6,983	18	67.8	+ 0.4	98	5†	48	2†	40	1.34	− 0.47	0.40	0	6	17	14	0	w.	Alexander Gusdorf.
Taos Canyon	do	8,959	4	.....	.....	.....	.....	.....	.....	.....	2.28	.....	0.57	T.	12	17	4	10	.....	L. Martinez, jr.
Tecolote	Lincoln	6,539	4	69.6	.....	86	10	54	26	26	1.39	.....	0.55	0	6	12	3	16	.....	Agent E. P. & S. W. R. R.
Three Rivers	Otero	4,559	4	.....	.....	.....	.....	.....	.....	.....	2.09	.....	1.18	0	6	18	10	3	sw.	Do.
Tijeras Canyon	Bernalillo	6,214	3	.....	.....	.....	.....	.....	.....	.....	3.15	.....	1.52	0	13	17	11	3	sw.	U. S. Forest Service.
Torrance	Torrance	6,433	4	.....	.....	.....	.....	.....	.....	.....	0.85	.....	0.40	0	5	17	8	6	.....	Agent E. P. & S. W. R. R.
Tres Piedras	Taos	8,076	10	63.4	.....	89	16	40	31	44	1.30	− 0.53	0.25	0	13	6	16	9	sw.	U. S. Forest Service.
Truchas	Rio Arriba	7,935	4	63.4	.....	90	13	42	14	47	2.97	.....	0.61	0	13	12	9	10	e.	Miss T. Esquibel.

TABLE 1.—*Climatological data for August, 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.																				
Tularosa	Otero	4,436	3																	I. L. Fairless.
Vaughn	Guadalupe	5,952	4								0.23		0.10	0	3	13	3	15	sw.	Agent E. P. & S. W. R. R.
Virsylvia	Taos	7,500	3	69.6		93	6	50	22	36	0.95		0.42	0	9	20	10	1	s.	Dr. I. N. Woodman.
Willard	Torrance	6,086	1	70.9		96	15	43	4†	51	1.80		0.70	0	7	18	5	8	sw.	Dr. Volney S. Cheyney.
Winsors	San Miguel	8,200	17	56.6	− 1.8	79	4†	36	4	43	3.42	− 0.09	0.73	0	20	4	25	2	se.	James F. Matty.
Texas.																				
Abilene	Taylor	1,738	28	84.3	+ 3.1	100	9	68	3	29	0.53	− 1.44	0.34	0	4	14	13	4	s.	U. S. Weather Bureau.
Albany	Shackelford	1,429	19	84.3	+ 1.5	106	20†	57	24	47	0.35	− 1.35	0.25	0	2	27	1	3		N. L. Bartholomew.
Alice	Jim Wells	209	2	84.5		102	4	68	27	30	1.32		0.40	0	5	24	4	3	se.	R. M. Boerum.
Alpine	Brewster	4,482	3								1.99		0.84	0	3	19	0	12	s.	H. B. Cowles.
Alvin	Brazoria	49	15	81.3		99	7	67	25	31	1.98	− 2.14	0.90	0	8	3	15	13	s.	Alvin Japanese Nursery.
Anahuac	Chambers	23	4								3.88		2.43	0	10					Lone Star Canal Co.
Angleton	Brazoria			80.5		97	6	65	26	29	8.60		1.90	0	12	9	0	22	s.	N. E. Winters.
Antelope	Jack		2								0.20		0.20	0	1	22	8	1		Paul Rudolph.
Aspermont	Stonewall		2								0.70		0.70	0	1	28	1	2	sw.	Bryant Link Co.
Austin	Travis	593	57	81.6	− 2.0	97	24	65	17	27	2.03	− 0.38	1.03	0	5	16	14	1	se.	A. Deussen.
Ballinger	Runnels	1,637	17	84.7	+ 2.1	107	24	64	7†	39	1.52	− 0.80	0.90	0	4	18	6	7	s.	E. M. Eubank.
Barstow	Ward	2,573	6	80.8		103	9	56	14	38	0.59		0.47	0	2	25	2	4	se.	F. P. Ingerson.
Bay City	Matagorda	53	3	80.8		92	6	70	26	18	5.66		1.37	0	13	15	8	8	ne.	E. C. Quereau.
Beaumont	Jefferson	29	12	84.2	+ 2.0	103	5	68	23	27	8.93	+ 4.61	5.27	0	16	10	0	21	se.	John Bender.
Beeville	Bee	225	17	83.4	− 1.4	104	4	63	18†	37	1.77	− 0.84	0.82	0	5	21	1	9	se.	Geo. A. Faupel.
Big Spring	Howard	2,396	15	83.8	+ 0.1	104	9	61	28	37	0.04	− 1.72	0.02	0	3	16	15	0	se.	B. Reagan.
Blanco	Blanco	1,350	17	83.4	+ 1.1	101	16	60	27	35	1.78	− 0.12	0.78	0	7	20	11	0	s.	R. C. Crist.
Boerne	Kendall	1,412	21	80.2	− 0.4	102	7†	53	26	43	0.53	− 1.67	0.15	0	6	18	11	2	s.	F. W. Schweppe.
Booth	Fort Bend	81	12								1.03	− 2.41	0.45	0	6	26	0	5	e.	T. R. Booth.
Bowie	Montague	1,113	18	88.0	+ 3.4	106	26	60	24	41	0.14	− 1.55	0.07	0	3	18	5	8	s.	Craig Anderson.
Brady	McCulloch	1,500	12																	Prof. J. O. Wallace.
Brazoria	Brazoria	25	24	82.4	+ 1.2	101	4†	67	26	33	5.19	+ 0.06	2.05	0	14	22	7	2	s.	Mrs. M. A. Stevens.
Brazos	Palo Pinto	801	4								0.46		0.38	0	2	21	10	0	s.	Robt. E. Boyett.
Brenham	Washington	350	28	84.3	+ 0.5	98	7†	70	26†	28	2.93	+ 0.22	0.99	0	9	17	5	9	s.	Mrs. B. F. Sloan.
Bridgeport	Wise	754	4								0.06		0.04	0	2	22	6	3	s.	Claude Strange.
Brighton	Nueces	12	20	85.4	+ 2.4	99	26†	71	18	27	0.00	− 1.68	0.00	0	0	31	0	0	se.	G. H. Ritter.
Brownsville	Cameron	38	49	83.4	− 0.3	96	17	70	26	26	1.04	− 1.76	0.62	0	4				se.	U. S. Weather Bureau.
Brownwood	Brown	1,342	21	84.0	+ 0.1	103	17	63	24	38	0.60	− 1.36	0.30	0	5	20	8	3	s.	Mrs. Pearl Smith.
Buena Vista	Pecos		1								1.38		0.59	0	4					W. H. Denis.
Cameron	Milam		5																	J. E. Watts.
Carmona	Polk	330	5	82.6		103	7	56	26	41	0.90		0.47	0	4	10[b]	19[b]	0[b]	s.	M. S. Spitler.
Carrizo Springs	Dimmit		1	86.4		100	4	70	4	30	T.		T.	0	0	20	0	11	se.	M. E. Cook.
Claytonville	Fisher	2,100	18	83.7	+ 3.0	102	9	60	28	38	0.13	− 1.78	0.08	0	3	18	8	5	se.	Wm. Lanius.
Cleburne	Johnson	758	8	86.3[b]		103	20†	65	24†	37	0.42		0.42	0	1	14[h]	0[h]	9[h]	se.	W. S. Ownsby.
Clifton	Bosque	671	2								3.14		2.35	0	3	9	22	0	s.	R. M. Jones.
Coleman	Coleman	1,710	19	85.0[d]	+ 4.6	105	17†	58	17	47	2.43	− 0.65	0.78	0	4	8	19	4	se.	J. E. Stevens.
Collegeport	Matagorda		1																	H. A. Clapp.
College Station	Brazos	308	23	86.3	+ 3.1	105	6	65	26	36	0.88	− 1.26	0.73	0	5	2	12	17	s.	Prof. G. S. Fraps.
Colorado	Mitchell	2,066	19	84.4	+ 2.1	104	9†	59	27†	42	0.19	− 1.88	0.14	0	2				s.	R. M. Webb.
Columbus	Colorado	206	9								2.26		0.68	0	9	21	5	5	s.	Mrs. Sophie Bridge.
Comanche	Comanche	1,358	7	86.5		103	5†	65	25	37	0.67		0.55	0	3	12[i]	3[i]	7[i]		W. T. Nabers.
Corpus Christi	Nueces	20	26	82.8	+ 0.7	93	24	74	4	18	0.60	− 1.68	0.55	0	3	17	10	4	se.	U. S. Weather Bureau.
Corsicana	Navarro	445	24	85.4	+ 2.0	101	7†	70	26	28	0.23	− 1.73	0.23	0	1	17	12	2	s.	D. H. Winn.
Cotulla	La Salle	425	6								1.20		0.60	0	3					Holland Agricultural Co.
Crockett	Houston	350	9	85.8		108	7	67	26	34	1.80		0.82	0	6	15	16	0	s.	A. M. Rencher.
Cuero	De Witt	177	23	85.1	+ 0.2	102	7	68	6†	34	1.42	− 0.43	0.55	0	5	21	5	5	s.	H. R. Frobese.
Dallas	Dallas	466	24	86.6	+ 3.1	106	30	65	24	37	0.72	− 2.32	0.49	0	3	15	2	14	s.	G. A. Eisenlohr.
Danevang	Wharton	145	17	85.2	+ 1.6	104	3†	67	25	33	2.55	− 0.84	0.80	0	5	26	3	2	se.	H. P. Hermansen.
Del Rio	Valverde	952	7																	U. S. Weather Bureau.
Denton	Denton	621		86.3		105	7†	58	24	42	T.		T.	0	0	26	4	1	s.	T. W. Buell.
Devine	Medina	653	3	86.2		106	30	65	23	40	0.27		0.25	0	2	27	4	0	se.	M. A. Keller.
Dialville	Cherokee	575	10	83.2	+ 0.7	100	7	64	26	32	2.67	− 0.50	2.50	0	3	18	12	1	s.	J. M. B. McKnight.
Dilley	Frio	569	3								0.00		0.00	0	0					John W. Miller.
Dublin	Erath	1,466	17	85.8	+ 2.7	106	26	68	3	36	1.17	− 0.77	0.83	0	2	15	15	1	s.	John O. Shafer.
Duval	Travis	820	24	83.4	− 0.9	98	7†	68	27†	26	2.15	+ 0.43	1.33	0	5	17	7	7		J. C. Edgar.
Eagle Pass	Maverick	800	36	88.0	+ 1.2	107	24	68	29†	35	1.82	− 0.77	1.23	0	5	13	16	2	se.	Charles Tarver.
Eastland	Eastland	1,420	6	82.0		101	26	57	4	41	0.72		0.72	0	1	17	14	0	s.	James A. Beard.
Edna	Jackson	71	4								1.44		0.74	0	4					E. L. Faires.
El Paso	El Paso	3,762	34	78.6	0.0	95	10	60	29	28	0.54	− 1.18	0.19	0	11	13	17	1	e.	U. S. Weather Bureau.
Encinal	La Salle	558	5																	Walter Pettit.
Fairland	Burnet	1,000	24	84.4	+ 1.6	101	8†	66	23†	35	2.79	+ 0.72	1.76	0	5	18	13	0	s.	R. L. Bush.
Falfurrias	Brooks		5	86.1		105	5†	64	27	38	1.16		1.16	0	1	27	4	0	se.	W. A. Gardener.
Flatonia	Fayette	465	5	84.0		101	8†	65	6	33	3.35		0.86	0	10	12	11	8	e.	Fred W. Laux.
Flint	Smith	483	3	84.8		103	6	63	26†	37	0.10		0.10	0	1	19	11	1	s.	F. C. C. Carter.
Fort Clark	Kinney	1,050	42	82.6	− 1.4	97	24	69	2†	28	1.70	− 0.22	1.50	0	2	28	0	3	se.	Post Hospital.
Fort Davis	Jeff Davis	5,000	34								3.43	− 0.16	0.72	0	9					C. H. Bird.
Fort McIntosh	Webb	460	45	87.4	+ 0.7	104	4†	69	27	31	1.32	− 1.39	0.93	0	3	12	16	3	nw.	Post Hospital.
Fort Stockton	Pecos	3,050	16	81.3	+ 1.9	106	9	60	21	39	0.50	− 1.80	0.31	0	2	4	27	0	se.	H. H. Butz.
Fort Worth	Tarrant	670	18	85.9	+ 3.0	102	29	65	24	31	T.	− 1.87	T.	0	0	15	14	2	s.	U. S. Weather Bureau.
Fowlerton	La Salle			88.0		107	4	68	27	32	0.69		0.35	0	5					Leo S. Karren.
Fredericksburg	Gillespie	1,742	24	80.6	+ 0.1	96	24†	63	7†	32	1.17	− 1.19	0.46	0	6	6	20	5	s.	Arthur Striegler.
Gail	Borden		1	82.0		103	9	60	31	38	0.50		0.50	0	1	27	0	4	s.	J. D. Brown.
Gainesville	Cooke	738	23	86.3	+ 4.0	104	30	63	24	38	0.00	− 2.18	0.00	0	0					B. F. Mitchell.
Galveston	Galveston	69	42	82.9	+ 0.3	96	6	67	27	19	3.88	− 1.13	1.24	0	9	14	11	6	s.	U. S. Weather Bureau.
Garden City	Glasscock		1								0.68		0.31	0	3	22	8	1	se.	C. W. Cunningham.
Gatesville	Corvell	795	9	85.0		101	10†	66	25	35	0.62		0.52	0	2	27	4	0		John Ryan.
Georgetown	Williamson	750	18	84.4	+ 1.3	102	5	63	27	34	0.70	− 0.66	0.39	0	3	24	7	0	s.	Prof. R. F. Young.
Goliad	Goliad	164	1								1.05		0.48	0	4					W. B. Campbell.
Gonzales	Gonzales	299	8								2.14		0.74	0	9	16	9	6	s.	J. M. Johnson.
Goree	Knox		1								T.		T.	0	0	13	18	0	s.	R. L. Gaines.
Gorham	McLennan	444	4								3.24		3.00	0	2	22	9	0	s.	John Gorham.
Graham	Young	1,040	14	87.1	+ 3.6	110	26	63	4†	42	0.42	− 2.27	0.31	0	2	15	16	0	s.	C. W. Johnson.
Grand Falls	Ward		3								T.		T.	0	0	2	29	0		W. A. White.
Grand Saline	Van Zandt	399	3								0.25		0.15	0	2	25	6	0	se.	Jas. Kirk.
Grapevine	Tarrant	670	23	87.0	+ 2.8	104	7	66	24	33	T.	− 1.65	T.	0	0	11	18	2	s.	W. J. Crowley.
Greenville	Hunt	550	13	87.0	+ 2.5	104	6†	68	24	31	T.	− 2.31	T.	0	0	19	0	12	s.	Mrs. L. A. Regan.
Hallettsville	Lavaca	235	21	85.0	+ 1.1	101	5†	69	26	29	3.51	+ 1.53	1.50	0	6	16	9	6	s.	Dr. J. E. Lay.
Hamlin	Jones	1,685	2								0.00		0.00	0	0					W. S. Carruthers.
Harlingen	Cameron	37	2	85.2		102	4	70	19†	29	0.56		0.37	0	4	16	14	1	se.	Lindsay Waters.
Harper	Gillespie		2								0.90		0.86	0	2	25	1	5		D. C. Barker.
Haskell	Haskell	1,553	18[g]	85.6	− 1.1	102	17†	65	24	34	0.11	− 1.41	0.08	0	2	16	14	1	s.	P. D. Sanders.

TABLE 1.—*Climatological data for August, 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.																				
Hayflat	Loving		3								0.66		0.36	0	2					M. M. Leeman.
Hebbronville	Duval		6								0.00		0.00	0	0					Henry Edds.
Hempstead	Waller	254	9								0.00		0.00	0	0	10[a]	0[a]	20[a]		J. H. Hancock.
Henderson	Rusk	500	4								0.14		0.12	0	2	22	7	2		M. Kangerga.
Hewitt	McLennan	664	18								1.42	− 0.23	1.42	0	1					I. H. Earle.
Hico	Hamilton		2								1.57		0.73	0	5	18	4	9	s.	John A. Eakins.
Hillsboro	Hill	628	10	86.0		104	6†	66	23	35	0.30	− 1.14	0.30	0	1					Thompson & Campbell.
Hondo	Medina	901	14	84.3	− 1.0	100	24	67	27†	30	0.58	− 1.09	0.30	0	4	24	6	1	se.	H. E. Haass.
Houston	Harris	138	23	83.5	+ 0.7	99	6	69	26	25	0.88	− 2.89	0.51	0	10	13	13	5	se	U. S. Weather Bureau.
Huntsville	Walker	400	29	83.2	+ 0.3	101	7	64	26	32	1.01	− 1.37	0.37	0	4	30	0	1	se.	W. Y. Barr.
Jayton	Kent		3																	Wichita Valley R. R. Co.
Jewett	Leon	496	9	86.1		106	7†	65	26†	40	1.00		0.55	0	2	19	9	3	s.	Earle Adkisson.
Junction	Kimble	1,645	12																	Judge John S. Durst.
Kaufman	Kaufman	448	14	87.0	+ 2.0	105	7	71	3	29	0.70	− 2.05	0.50	0	2	22	9	0	s.	B. J. Hubbard.
Kerrville	Kerr	1,650	17	81.0	+ 0.1	97	15†	59	7†	36	1.33	− 0.53	0.39	0	9	8	17		s.	Robert E. Horne.
Knickerbocker	Tom Green	2,050	9	82.2[d]		100	17†	62	21†	38	1.70		1.00	0	6	23	8	0	se.	Jos. Tweedy.
Kopperl	Bosque	576	16								2.20	+ 0.37	1.15	0	3	13	12	6	s.	T. A. Johnson.
Lagrange	Fayette	276	3								2.50		1.03	0	11	15	5	11	se.	August Hermes.
Lamesa	Dawson	2,500	3								1.24		1.24	0	1					S. D. Austin.
Lampasas	Lampasas	1,026	21	83.0	+ 0.2	100	7†	63	24†	36	1.34	− 0.52	0.52	0	4	24	2	5	s.	Mrs. K. I. Webber.
La Parra	Willacy	38	11								0.00	− 2.77	0.00	0	0					John G. Kenedy.
Laredo	Webb	421																		Mrs. A. H. Jackson.
Laureles Ranch	Nueces	20	13								0.00	− 2.29	0.00	0	0					Matt Cody.
Liberty	Liberty	38	9	82.4		103	7	65	25	33	4.85		1.38	0	9	20	8	3	e.	Mrs. Fannie Sneed.
Llano	Llano	1,040	22	84.4	+ 0.1	100	7†	65	31	29	2.16	+ 0.81	1.06	0	4	22	8	1	s.	E. W. Torrence.
Llano Grande	Hidalgo	86	5	84.0		103	3	66	26†	34	0.20		0.20	0	1	14	17	0	se.	M. D. Wardlow.
Long Lake	Anderson	229	8								1.50		1.30	0	2	17	7	7	e.	Geo. W. Ellis.
Longview	Gregg	336	27	85.2	+ 1.8	104	6†	67	26†	33	0.22	− 1.62	0.14	0	3	25	0	6	se.	C. A. Propst.
Lubbock	Lubbock		2								0.32		0.25	0	4	27	4	0	se.	V. L. Cory.
Lufkin	Angelina	325	6	83.9		104	7	60	26	39	1.05		0.52	0	3	19	6	6	s.	T. A. King.
Luling	Caldwell	418	24	84.2	+ 0.2	101	7	68	27	29	3.70	+ 1.77	1.64	0	12	14	13	4	s.	John Carter.
Lyford	Cameron																			B. D. Stevenson.
McGregor	McLennan	713	3								4.95		1.75	0	4	26	2	3	s.	W. H. Whitley.
McKinney	Collin	612	11	84.0		104	30	63	24	34	0.59	− 1.19	0.56	0	2	27	2	2	se.	H. Killingsworth.
Marathon	Brewster	4,043	3	71.7		91	9	53	12	34	2.30		1.10	0	4	11	13	7	s.	Rev. A. P. Willis.
Marble Falls	Burnet	771	5								1.47		0.35	0	7	14	0	17		B. E. Cochran.
Marfa	Presidio		5								0.80		0.20	0	5					W. L. Jones.
Marshall	Harrison	375	12	83.6		103	30	60	3	35	0.75	− 1.86	0.52	0	4	5	24	2	se.	Lee Scott.
Matagorda	Matagorda	12	3								3.11		1.08	0	5	25	6	0	s.	W. E. McNabb.
Mexia	Limestone	537	9	86.4		104	30	67	27	32	1.28		0.78	0	3	14	13	4	s.	Isidore Newman.
Midland	Midland		10	79.8		102	8	58	27†	36	1.32	− 0.07	0.80	0	3	0[b]	25[b]	4[b]	se.	A. G. Graham.
Mission	Hidalgo	140	3	85.2		102	5	69	26	29	0.75		0.35	0	3	0	31	0	se.	W. L. Frame.
Mont Belvieu	Chambers	65	3								3.30		0.79	0	10	15	10	6	w.	A. R. Shearer.
Montell	Uvalde		1								4.26		1.48	0	6	3	21	7	se.	A. G. Beecroft.
Mount Blanco	Crosby	2,750	24	80.8	+ 2.8	100	9	57	3†	40	0.00	− 2.55	0.00	0	0	20	8	3	se.	Geo. W. Smith.
Nacogdoches	Nacogdoches	271	14	81.4	− 0.6	99	7	59	26	33	0.68	− 1.73	0.48	0	2	22	4	5	s.	Miss Mary Hofmann.
New Braunfels	Comal	720	24	81.8	− 0.5	96	24	66	27	28	2.25	− 0.10	1.03	0	5	8	22	1	s.	J. Giesecke.
Palestine	Anderson	510	31	83.6	+ 3.1	100	7	67	27	27	0.23	− 1.99	0.18	0	4	19	12	0	s.	U. S. Weather Bureau.
Panter	Hood	1,000	24								0.83	− 1.53	0.53	0	5					E. H. Snyder.
Pearsall	Frio	629	3								1.46		0.72	0	4					Earnest De Vilbiss.
Pierce	Wharton	102	7	84.4		101	3	69	17†	29	2.32		0.68	0	9	3	0	28	ne.	R. B. Pointer.
Plainview	Hale	3,370	17	78.6	+ 1.8	100	9†	55	3	40	2.03	− 0.41	1.28	0	3	16	15	0	se.	J. F. Sanders.
Port Lavaca	Calhoun	20	12	83.8	0.0	98	4	70	1	25	1.68	− 1.57	0.48	0	9	17	13	1	s.	J. H. Bickford.
Post	Garza	2,700	3								0.54		0.50	0	2	19	10	2	se.	W. T. Mann.
Putnam	Callahan	1,591	2								0.00		0.00	0	0	29	1	1	s.	S. M. Davis.
Raymondville	Cameron		2	83.6		100	4	68	6†	29	2.13		0.87	0	8	14	15	2	se.	C. H. Pease.
Ricardo	Nueces	57	4	83.8		104	4	64	27	35	0.42		0.22	0	2	19	7	5	se.	J. S. Lehman.
Rio Grande	Starr		36								0.20	− 1.67	0.20	0	1	25	5	1	s.	D. N. Garza.
Riverside	Walker	169	9								1.53		1.00	0	2	28	3	0	s.	Mrs. C. W. Higdon.
Rockland	Tyler	136	9								0.40		0.20	0	3	18	8	5	s.	Mack Dunkin.
Rockport**	Aransas	12	12	83.2	+ 0.8	90	7	76	4	13	2.16	− 1.12	0.95	0	6	22	9	0	se.	Mrs. G. B. Grewe.
Rossville	Atascosa	558	6	82.4		98	3	64	7	33	0.84		0.65	0	3	10	21	0	se.	W. F. M. Ross.
Runge	Karnes	308	18								1.41	+ 0.01	1.21	0	2					Reiffert & Frobese.
Sabinal	Uvalde	964	9	85.1[d]		102	4	67	7†	32	2.14		0.60	0	6	7	19	5	se.	H. W. Reily.
Salado	Bell		3								0.72		0.24	0	4	14	3	14	s.	L. M. Crockett.
San Angelo	Tom Green	1,847	22	85.2[d]	+ 3.1	103	6†	62	4	36	1.75	− 1.14	0.80	0	3	16[d]	7[d]	4[d]	s.	Sam Crowther.
San Antonio	Bexar	701	28	84.0	+ 2.0	100	24	67	27	27	1.29	− 1.40	0.92	0	8	23	8	0	se.	U. S. Weather Bureau.
San Augustine	San Augustine	360	4	81.8		101	6	58	26	37	3.42		2.32	0	7	13[a]	10[a]	7[a]		F. A. Wilson.
San Juanito	*Hidalgo*		4	85.6		103	4†	62	28	34	0.34		0.13	0	4	1	5	25	se.	J. B. McAllen.
San Marcos	Hays	558	20	82.8	− 0.5	97	10†	68	8	28	1.60	− 0.08	0.70	0	4	24	0	7	e.	Miss L. C. Ford.
San Saba	San Saba	1,712	12	83.2	− 0.1	100	1†	62	24	38	1.75	+ 0.86	0.70	0	6	21	10	0	s.	Jas. Burns.
Santa Anna**	Coleman	1,744		88.0		102	14	72	23	25	1.40		0.60	0	4	12[a]	16[a]	2[a]	s.	L. L. Shield.
Santa Gertrudes	Nueces		13								0.00	− 2.29	0.00	0	0					J. B. Wright, jr.
Sealy	Austin	201	2								1.76		1.06	0	11	10	12	9	e.	O. H. Albert.
Seymour	Baylor	1,320	7	88.2		106	26	60	24	42	0.00		0.00	0	0	30	1	0	sw.	T. J. North.
Snyder	Scurry		2	81.0		101	9	62	27†	36	0.24		0.16	0	3	23	8	0	se.	Olin F. Hardy.
Somerville	Burleson	251	4	85.1		102	6†	66	25†	33	T.		T.	0	0	23	7	1	s.	Ed. Herbst.
Sonora	Sutton	2,200	9	81.6		100	17	60	27	37	1.61		1.05	0	5	16	6	9	s.	C. R. Myers.
Spur	Dickens	2,300	2	83.9		103	9†	63	2†	38	0.07		0.04	0	2	18	12	1	s.	J. D. Reagan.
Stamford	Jones		2	85.4		100	11†	62	23	32	0.16		0.10	0	2	26[a]	4[a]	0[a]		W. I. Pratt.
Sugarland	Fort Bend	79	12	83.4	+ 0.7	100	7	67	26	28	0.76	− 3.28	0.41	0	4	27	3	1	e.	Paul C. Rudat.
Sutherland Springs	Wilson	424	3								2.46		1.35	0	3					W. W. Craft.
Tahoka	Lynn			80.5		104	26	60	28	42	0.23		0.23	0	1	8	23	0	se.	H. C. Crie.
Taylor	Williamson	583	12	83.3	+ 1.6	99	7	66	27	29	2.08	− 0.39	0.81	0	6	12	18	1	s.	U. S. Weather Bureau.
Temple	Bell	630	23	85.4	+ 2.6	101	7	70	29	29	0.81	− 1.11	0.41	0	5	22	5	4		W. Goodrich Jones.
Thurber	Erath		3								0.16		0.16	0	1					T. K. Ball.
Tivoli	Refugio		3								3.50		1.50	0	3					W. H. Gisler.
Troupe	Smith			84.8		104	7	65	26	34	0.69		0.65	0	2	20	7	4	se.	W. S. Hotchkiss.
Uvalde	Uvalde	937	18	84.0		104	26	60	30	39	2.08	− 0.73	0.75	0	4	23	8	0	se.	J. C. McBride.
Valley Junction	Robertson	289	13								1.67	− 0.33	0.80	0	4	27	1	3	s.	Frank Fitzpatrick.
Victoria	Victoria	187	14	85.4	+ 1.4	104	3†	71	6†	32	3.60	+ 0.72	1.60	0	5	24	6	1		C. C. Zirjacks.
Waco	McLennan	424	24	86.6	+ 1.5	101	8	67	24	28	4.07	+ 1.43	2.80	0	3	23	7	1	s.	A. E. Howell.
Waxahachie	Ellis	556	16	86.7	+ 2.5	106	8	67	5†	37	T.	− 1.89	T.	0	0	17	14	0	s.	E. Q. Vestal.
Weatherford	Parker	864	24	86.0	+ 3.6	103	8	68	24	30	0.33	− 1.74	0.18	0	2	29	2	0	n.	Miss J. Stickfort.
Wills Point	Van Zandt	524	8	87.5		106	7†	68	27	36	T.		T.	0	0	22	4	5	s.	W. W. Gibbard.
Winters	Runnels		2								1.16		1.00	0	2					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 August, 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								.09	.20	.02	.70	.07	.05				.08		T.	.20	.15	.45		T.								2.01
Cumbres	do					T.	T.			T.		T.	.75			.01		.02	.01	.02	T.						T.		T.			T.	0.81
Garnett	do										.07	T.	.12							.22					.15								0.56
Hermit	do	.12	T.	T.			T.	T.		.10		T.	.90	.05				.49		.16	.21			T.	.44	T.		T.	T.	T.	T.	T.	2.47
La Veta Pass	do		.18							.27			.15			.20	T.	.22		.15	.10				.54	T.	.28	.14	.62		T.		2.85
Manassa	do	.05										.10		.10						T.		.04	.10								.11		0.50
Platoro	do	.21				.11	.04	.14		.04	T.	.37	.60	.36					.33	.04	.24	.47	.24		.16	.06		T.		.13		.02	3.56
Saguache	do										T.		.20	.40		T.			T.		.10	.40	.30	.10	T.	T.			T.	.20	.10	T.	1.80
San Luis	do		T.	T.		.08				T.		.25						.13		.01	T.	T.	.22		T.	.07				.05		.03	0.84
Wagon Wheel Gap Experiment Sta.	do					.03	T.	T.		.06	.04	.39	.79	.06				T.	.12	.06	.07	T.	.07	T.	.41			.01	T.	T.	.02	T.	2.08
New Mexico.																																	
Agricultural College	Rio Grande	.27			.02	.08					.01	.57		T.					.07	.01			.03			.14			.03			.10	1.33
Alamogordo (near)	do						.32	.22										.27		.31			.34	.24			.17		T.	T.			1.87
Alamogordo	do	T.						.14									T.	T.	.16	.37		.33		.17		T.		T			T.	T.	1.17
Alamos Ranch	do						.16						.68							.20	.29											.01	1.34
Albuquerque	do											.07	.09					.01		T.	.01	.01	.08			.07	.25		T.		T.		0.59
Ancho	do											.65		.37						.15		1.05		.06			.05	.03	.11		.05		2.52
Anchor Mine	do	.20					.11					.41							.32	.43	.16	.17	.95			.17				.14		.08	3.14
Artesia	Pecos	.01																				.35	.12							T.			0.48
Aspen Grove Ranch	Rio Grande							.11				.10	.24					.02		.01	.02	.21	.11						.16	.09			1.07
Batemans Ranch	do	1.17	T.				T.			T.			.12							T.	.16	.10	.28		.17	T.				.10	T.		2.10
Berino	do					.35						.10	.14																				0.59
Bluewater	do							.65				T.	.30	T.	T.				T.		.33	T.										T.	1.28
Boas	Pecos																				.04												0.04
Capitan	do																							.79				.10					0.89
Carlsbad	do	.10								T.	T.	T.					.02						.21	.20		.31						T.	0.84
Carrizozo	Rio Grande		.18						.05				.75						.36				.15	.07			.08			.18	.15		1.97
Cerrillos (near)	do	T.	T.			T.		T.				.67	.06		.13			.46			T.	.08	.20		T.	T.			.19	T.		T.	1.79
Chama	do	T.								T.		.38	.40					.20	T.	T.			T.							.15			1.13
Cloudcroft	Pecos												.25		.05		1.00					.05		.05	.15	.10						.50	2.15
Corona	do					.34					.12					.53						.29	.07						.17				1.52
Coyote	Rio Grande							T.				.19		.15	.07			T.	.46	T.		.89	.03			.04			.29				2.12
Cundiyo	do						.08					.50	.12						.21				.20			.50							1.61
Demonstrat'n Farm	Pecos										.34								.34				.97						.08				1.73
Duran	do										.07						.14		.07				.03									.20	0.51
Elida	do																																0.00
Escondido	Rio Grande																														.34	.04	0.38
Espanola	do		T.						.03			.30						.18	T.	T.	T.		.10										0.61
Estancia	do				T.						.05	.09							.03	.05		.06	.15						.25			.05	0.73
Fort Stanton	Pecos					T.		.50				.30	T.				T.							T.	.45	T.	.12	T.		T.			1.37
Fort Sumner	do										*	.06	T.	T.			*	.03	*	.08	T.	T.	.02			.11		.05	.05	T.		.12	0.52
Gallinas	do									T.		T.		T.	.15		T.	.10	.40			.25	.20			T.		T.	.20				1.30
Gallinas Plant'g Sta.	do					.01	.09	.38	.22		.02	.40	T.		.11		.01	.15	.12	.50		.16	.60		.01				.27	.05		T.	3.10
Glorieta Ranch	Rio Grande						T.		.80	.03	.06					T.		.02												.16			1.07
Haryeys Upper Ranch	Pecos	T.					.22	.28	.03		.70	.38	.06	T.	T.		.40	.20	.32	.40	.35	.35	.60		.06	T.			.26	.15		.07	4.83
Hobbs	do	.68												T.									T.	1.75				T.				T.	2.43
Hondo Reservoir	do	T.									T.	T.							T.	T.		T.	T.	.37					.06	T.			0.43
Jemez Springs	Rio Grande	.04	.08						.10		T.		.25	*	.31			T.		.08		T.	T.		.15	.75	.02		.06	.25			2.09
Knowles (near)	Pecos					T.						T.			.03					T.				.49				T.				T.	0.52
Laguna	Rio Grande							T.					T.						.35														0.35
Lagunita	Pecos																																
Lake Valley	Rio Grande					.02	.07				.45	.80	.04					.01	.38	.20		.25	*	.34					.04	.07			2.67
Lakewood (near)	Pecos				T.					T.																.15							0.15
Lanark	Rio Grande								.15														.10										0.25
Las Vegas	Pecos										.07	.04						.34		.34	.04	.42	.04					.04					1.33
Los Lunas (near)	Rio Grande	.04										.06						.15	.07	.06									.06			.02	0.46
Magdalena	do	T.		T.		.15		1.10	T.	.10	.35	.05	.05					.15			1.10					.22				.05		T.	3.32
Mescalero	do	.25				.04	.47					.90	.22	.15	.11	.62	.05	.22	.04	T.		.17	.61	.38	.01	.12			.14	.02			4.52
Mineral Hill	Pecos							.75			*	.40			.67				.53			.50	.55										3.40
Monterey	Rio Grande	T.				T.	T.	T.				T.	.10	T.		T.		T.	.10	.65			.03	T.	.10	.25		.02	.02	.10		T.	1.37
Mountainair	do	T.				T.	.04	.17		.02	.03	.03	.15					.80		.12	.73	1.46	.03	.03		.05			T.			.64	4.30
Mountain Park	do					.15	.05					.57	.07	.14	.13	.05	T.	.20	.50				.15	.47	.26	.07	.17		.07			.06	3.11
Newman	do	.15																					.05			.10			.05				0.35
Nogal (near)	Pecos					.07	T.	.03			.25	.05	.03	T.	T.	T.	.20	.08		.07		.13	.02	.69	.39	.54			.10	.11		.74	3.50
Noria	do						T.	.72			T.		.23				.04		.10				T.	.08					T.				1.35
Orogrande	do				.05	.53					T.	T.	T.	.02				T.	T.				.15	.05		.10		T.	T.	.25			1.15
Oscura	do	.12										.11		.26					.02	.35						.71		.12					1.69
Otis	do	.45	T.						T.	.05	T.	T.	T.				T.						.33	.10		T.					T.	.02	0.95
Pastura	do					.02	T.	T.			T.								T.			.15	.35										0.52
Plainview (near)	do											.02		.15					T.	T.			.22					T.		T.		.31	0.70
Red River Canyon	Rio Grande	T.										.50						T.	.60	.40	.30	.30	.60					.03	.40				3.13
Richland	Pecos											.60								.09			.02										0.71
Rincon	Rio Grande	.10						.50	.31			.44	.39											T.									1.74
Rio Grande Dam	do						.19		.13	T.	T.	.96	.74										T.	.40		.23			.25				2.90
Rio Grande Industrial School.	do										.07		.09														.04		.06	T.			0.26
Rosedale	do	.08						.15	.80	.10	T.	.30	.03		.92			T.	.25	T.	.03			.25		T.							2.91
Roswell	Pecos								T.		T.								.01		.01		.16						.08	.02		T.	0.28
San Marcial	Rio Grande	.04												.29	.31	.35															.10		1.09
San Rafael	do							T.	.50		.42	T.	.13						.15		.46	.10					T.	T.				.12	1.88
Santa Fe	do	.01	.01			T.	T.	T.			T.	.07	.03		.02		T.	T.	.01	.04	.01	.33	.01	.09	T.	.03		T.	.41	T.			1.07
Santa Fe Canyon	do		.04			T.	T.					.16	.50					.13	T.	T.	T.	.13	.06	.10		.36		T.	.08	.05			1.67
Santa Rosa	Pecos											.03											.15			.17			*	.26		.05	0.66
Senorito (near)	Rio Grande	.12	.09				.08			.04		*	.33					.32	.34	.15	T.	.15	.06	.01		.05			.26	T.	.05		2.05
Socorro	do								.06	.17	.08	.10	.25				.05			.03		.05					.05			.20	.06		1.10
South Fork	do								.11	.30										.13	.90	.80	.14	.19	.11				.60	.40			3.68
Stanley	do						.17				.31										.15	.12			.10				.12	.08			1.05
Tajique (near)	do					.02	.06	.01			.10	.04		.16			.02	.62	.08	.40		.19	.30						.18			.16	2.43
Taos	do		.04				.40					T.	.30						.17			.03	.40			T.							1.34
Taos Canyon	do	.23					.02					.34	T.				.16	.23	.15	T.	.06	.27	.57		.10				.14			.01	2.28
Tecolote	Rio Grande											.10	.15			.17			.12			.55	.30						T.				1.39
Three Rivers	do					1.18						.15	.30				.06	T.								.12			T.	.28	T.		2.09
Tijeras Canyon	do		.06	.08			T.	.07	T.	T.		1.52	.07		T.			.08	.15	.11		.06	.44	.02	.20	T.			.29				3.15
Torrance	Pecos						.40												.10			.05						.23		.07			0.85
Tres Piedras	Rio Grande						.03	.01			.10		.22	.03					.19	.05	.15		.18		.01		.10		.08		.15		1.30
Truchas	do		.20				.10	.27			.40	T.	.60			T.		.25	.23	.08	.02	.61		.03			.01				.17		2.97
Tularosa	do																																
Vaughan	Pecos						.10										.05					.08										T.	0.23

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

Stations.	Watershed.	Day of month. 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	Total.
New Mexico—Con.																																	
Virsylvia	Rio Grande	.01										.05	.02		.06				.21	.05		.42			.11						.02		0.95
Willard	do											.70	.12					.04				.58	.02						.07			.27	1.80
Winsors	Pecos	.05	.02			.05	.10				.18	.22	.42		.25		.12	.16	.07	.16		.73	.31		.19	.29		.01	.02	.07		.03	3.42
Texas.																																	
Abilene	Brazos	.06													.01							T.	.34				T.	T.		.12			0.53
Albany	do	.10																					.25				T.						0.35
Alice ‖	Coast													.40		.10					.40				.22	.20							1.32
Alpine	Pecos	T.								.65				.84			.50																1.99
Alvin	Coast		.24						.02	.14	.01		.57	T.	T.			.02	T.										.08		.90		1.98
Anahuac	do									2.43	.28	.10		.06	.40			.38						.02	.06			.09			.06		3.88
Angleton	do	.87	1.90		.21				.27	.05			.55	.37				1.39	1.36	.07			.66					.90					8.60
Antelope	Trinity										T.				.20			T.															0.20
Aspermont	Brazos	.70																															0.70
Austin	Colorado	T.	1.03	T.									T.	.02				.52	.31	.15				T.							T.	T.	2.03
Ballinger ‖	do	.12														.25															.90	.25	1.52
Barstow	Pecos												.12										.47								T.		0.59
Bay City ‖	Colorado	.57			.30									1.20	.11	.02		.16	.31	.08	.47			.17	T.	.40			1.37			.50	5.66
Beaumont ‖	Neches			.05	.05		.05	.05		.31	.48			.19	.05	.11	.05	.62	5.27	.05			.43			.17						1.00	8.93
Beeville ‖	Coast										T.					.35			.07	.82	.20				.33	T.							1.77
Big Spring	Colorado													T.	.02					T.							.01	T.				.01	0.04
Blanco ‖	Guadalupe		.35	.08															.11	.07					.78				.10			.29	1.78
Boerne ‖	San Antonio	.15	.06	.09	.06													T.	.10	.07				T.				T.			T.		0.53
Booth ‖	Brazos	.45			.05							.30			.06				.07										.10				1.03
Bowie	Trinity	.03											T.										.07				.04						0.14
Brady	Colorado																																
Brazoria	Brazos	.04	T.	T.	T.				.35	.07	.04	.02	.61	.73	.05			2.05	.39	.05			.18					.58	.03			T.	5.19
Brazos ‖	do		.08																					.38									0.46
Brenham ‖	do	.05			.99						.26	T.	.42	T.		T.				T.		.15			.05	.36			.36	T.		.29	2.93
Bridgeport ‖	Trinity	T.											.04			.02																	0.06
Brighton	Coast																																0.00
Brownsville	Rio Grande	.62											T.	T.	.08						T.	.04	.30			T.						T.	1.04
Brownwood ‖	Colorado	T.	.30	.10										.05						.10				.05							T.	T.	0.60
Buena Vista	Pecos	.36											.28		.59								.15										1.38
Cameron ‖	Brazos																																
Carmona	Neches		.20							T.	T.	T.		T.	T.			.03			T.	T.		.20						.47	T.		0.90
Carrizo Springs	Nueces		T.											T.						T.										T.			T.
Claytonville	Brazos													.08	.02															.03			0.13
Cleburne	do																	T.												.42			0.42
Clifton	do	.75	2.35															.04															3.14
Coleman	Colorado	.78	T.										T.										.68				.75			.22	T.		2.43
Collegeport	Coast																																
College Station	Brazos	T.									T.	.01	.01					.06	.07												.73		0.88
Colorado	Colorado			.05										.14																T.			0.19
Columbus ‖	do			.02						T.	T.	.32		.10	T.	.18		T.	.68	.06	T.		T.		T.	.04			.48			.38	2.26
Comanche	Brazos		.55		.01																	T.	.11								T.	T.	0.67
Corpus Christi	Coast														T.					.04			.55			.01							0.60
Corsicana ‖	Trinity			.23																													0.23
Cotulla	Nueces		.60																					.50						.10			1.20
Crockett	Trinity		.02	T.									.04	.82				.39	.20		.33												1.80
Cuero ‖	Guadalupe												T.	.55					.50	.04		.31							.02				1.42
Dallas ‖	Trinity		.49	.02															.21														0.72
Danevang	Coast													.75					.10	.65				.25			.80						2.55
Del Rio	Rio Grande																																
Denton	Trinity																	T.	T.														T.
Devine	Nueces	.02	.25																					T.							T.		0.27
Dialville	Neches		2.50							.05				T.							.12							T.		T.			2.67
Dilley	Nueces																																0.00
Dublin ‖	Brazos		.83	.34															T.					T.									1.17
Duval	Colorado	T.	1.33											.24				.10	.26	.22				T.								T.	2.15
Eagle Pass	Rio Grande		.32																	.10		.01							T.	1.23	.16		1.82
Eastland ‖	Brazos		T.	.72															T														0.72
Edna	Lavaca										.10													.74	.40			.20					1.44
El Paso	Rio Grande	.01					T.	.01			T.	.07	.06	.01				.09	T.		.01		.19					T.	.02	.04	.03		0.54
Encinal	Nueces																																
Fairland	Colorado	.01	1.76										.06	T.			.72	.24			T.		T.							T.	T.		2.79
Falfurrias	Coast		T.																	1.16					T.								1.16
Flatonia	Guadalupe	T.	.17	.45											.25			.50	.86	.21		.02		.14		T.		T.			.68	.07	3.35
Flint	Neches		T.						T.	T.					.10															T.			0.10
Fort Clark ‖	Rio Grande																			.20										1.50			1.70
Fort Davis	Pecos	.40			.12			.60		.27	.07		.37										.71		.17						.72		3.43
Fort McIntosh	Rio Grande																						.12		.93	.27							1.32
Fort Stockton	Pecos								T.	T.				.19	T.	T.							T.	T.			T.	T.		T.	.31		0.50
Fort Worth	Trinity	T.																T.	T.			T.											T.
Fowlerton	Nueces	.01																		.16				.35							.14	.03	0.69
Fredericksburg	Colorado	.30	.46		.05								T.					.13						T.					.06	.17			1.17
Gail	do																															.50	0.50
Gainesville	Trinity																																0.00
Galveston	Coast		.18						.31	.01	T.	T.	.45	.55			1.16	.08	.08			T.	T.		T.			1.06			T.		3.88
Garden City	Colorado														.30									.31			.07	T.					0.68
Gatesville	Brazos													.52					.10														0.62
Georgetown ‖	do			.20															.39	.11													0.70
Goliad	San Antonio				.35													.12		.10					.48								1.05
Gonzales ‖	Guadalupe		.09										.12	.27					.18	.32	.32				.74		.04					.06	2.14
Goree	Brazos	T.	T.											T.	T.																		T.
Gorham ‖	do	3.00	.24																														3.24
Graham	do	.11	T.										.31										T.		T.		T.						0.42
Grand Falls	Pecos																						T.									T.	T.
Grand Saline	Sabine	T.	T.															.10				T.	T.			.15							0.25
Grapevine	Trinity																	T.				T.											T.
Greenville ‖	Sabine																						T.										T.
Hallettsville	Lavaca				T.							T.	T.	T.	.47		T.	.56	.18	.24											1.50	.56	3.51
Hamlin	Brazos																																0.00
Harlingen ‖	Coast														.04	T.			.05			T.	.10	.37									0.56
Harper	Colorado				.86																									.04			0.90
Haskell ‖	Brazos		.03	.08																													0.11
Hayflat	Pecos																							.36								.30	0.66
Hebbronville	Coast																																0.00
Hempstead ‖	Brazos																																0.00
Henderson	Neches		.12							.02			T.		T.																		0.14

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

Stations.	Watershed.	Day of month. 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	Total.
Texas—Continued.																																	
Hewitt	Brazos		1.42											T.				T.	T.				T.										1.42
Hico	do		.73	.10									.12					.29					.33										1.57
Hillsboro	do		.30																														0.30
Hondo‖	Nueces	.10	.30	.03																				T.								.15	0.58
Houston	Coast									.07	.01		.05	.03	T.		.08	T.	.01					.51	T.			.04	.07	.01	T.		0.88
Huntsville‖	Trinity										.35				.15										.14							.37	1.01
Jayton	Brazos																																
Jewett‖	Trinity		T.	.45								T.			T.	T.			.55														1.00
Junction	Colorado																																
Kaufman	Trinity																	.20				.50											0.70
Kerrville‖	Guadalupe	.21	.07	.39										.10					.12	.05	.18				.12						.09		1.33
Knickerbocker	Colorado	.20	1.00	.10									T.	T.	.28				.09					T.			T.			.03	T.		1.70
Kopperl‖	Brazos	.85	1.15																.20														2.20
Lagrange	Colorado		.34	.02	.04					T.	.03	.02	.56		.05			.22	.04							T.		T.			.15	1.03	2.50
Lamesa	do																															1.24	1.24
Lampasas‖	Brazos	.05	.52	.41																			T.	T.							.36		1.34
La Parra	Coast																																0.00
Laredo‖	Rio Grande																																
Laureles Ranch	Coast																																0.00
Liberty‖	Trinity	T.		T.	T.				T.		.60			.50	.06	.04		1.19	T.			.18			1.38	.38						.52	4.85
Llano‖	Colorado		T.	.45										T.	T.				.05						.60						1.06	T.	2.16
Llano Grande‖	Rio Grande	T.											T.	T.	T.					T.	T.	.20	T.		T.								0.20
Long Lake‖	Trinity			1.30											.20																		1.50
Longview‖	Sabine			.14						.04														.04									0.22
Lubbock	Brazos									.03		.01												.25				.03					0.32
Lufkin	Neches		.52																		.09									.44			1.05
Luling‖	Guadalupe	.12	.16	.96										.06	.02	.08			.14	1.64	.05				.12				.03			.32	3.70
Lyford	Coast																																
McGregor	Brazos	1.70	1.75										.25						1.25														4.95
McKinney	Trinity	.56																T.	.03				T.										0.59
Marathon	Rio Grande	T.	.50																				.20	.50	1.10								2.30
Marble Falls‖	Colorado	.01	.23	.30		.20													.35	.35					.03								1.47
Marfa	Rio Grande												.10		.20					.10				.20								.20	0.80
Marshall	Sabine		.52							.10	T.				.01								.12										0.75
Matagorda	Coast	.01								.02								1.00	1.00									1.08					3.11
Mexia‖	Brazos		.38	.78											T.	T.			.12					T.							T.		1.28
Midland	Colorado	T.								.80				T.	.34				T.				T.	T.			T.					.18	1.32
Mission‖	Rio Grande		T.										.25		.15	.35				T.			T.										0.75
Mont Belvieu	Coast		.32				.02			.71	.18	.22	.21		.12			.79				.48		T.	.25								3.30
Montell	Nueces	.18	1.48	1.47																.06	.18									.89			4.26
Mount Blanco	Brazos																																0.00
Nacogdoches‖	Neches		.20	.48												T.		T.				T.			T.						T.		0.68
New Braunfels	Guadalupe		.37	.59										T.					.17	1.03				T.				T.			T.	.09	2.25
Palestine	Trinity		.18	T.							.02		.01		T.			.02											T.				0.23
Panter	Brazos	.06	.53	T.									T.					.08	T.		T.			.11		T.					T.	.05	0.83
Pearsall	Nueces		.39																	.72										.12	.23		1.46
Pierce‖	Colorado	.17				.42					.03			.08	.37					.07						.39			.68			.11	2.32
Plainview	Brazos													1.28							T.		T.	.70			T.			.35			2.03
Port Lavaca	Coast	.23			.14				.18	.26					.07		.05	.08							.19							.48	1.68
Post‖	Brazos																										.04					.50	0.54
Putnam	do																																0.00
Raymondville‖	Coast	.05													.02	.10			.29		.23			.87			.53		T.	.04			2.13
Ricardo	do														.20							.22				T.							0.42
Rio Grande‖	Rio Grande																									.20							0.20
Riverside‖	Trinity																								.53						1.00		1.53
Rockland‖	Neches									.10											.20							.10					0.40
Rockport	Coast	T.												.35	.05	.03		T.		T.					.75				.95			.03	2.16
Rossville	Nueces	T.		.65														T.		T.				.03								.16	0.84
Runge	San Antonio														.20									1.21									1.41
Sabinal	Nueces	.31	.55	.08																.46				.60	.14								2.14
Salado	Brazos		.24															.11													.19	.18	0.72
San Angelo	Colorado			.31											T.	.64															.80		1.75
San Antonio	San Antonio	.03	.92		.07													T.	.11	.01				.09							.04	.02	1.29
San Augustine	Neches		2.32	T.					T.	.17	.19			T.	.34			.35			.02		.03	T.									3.42
San Juanito	Coast			.06										.13	.02			T.					T.			.13							0.34
San Marcos ‖	Guadalupe		.70	.25														.15	.50														1.60
San Saba	Colorado	.08	.12	.70										.34								.20		T.					T.		.31		1.75
Santa Anna	do	.60																	.20			.45								.15			1.40
Santa Gertrudes ‖	Coast																																0.00
Sealy	Brazos	.09			1.06					.08	.02	T.	.19		.02			T.	.08					.03	T.			.06			.03	.07	1.76
Seymour	do																																0.00
Snyder ‖	Colorado													.05	.16								.03	T.									0.24
Somerville	Brazos												T.	T.				T.										T.					T.
Sonora	Rio Grande												T.	.09								T.		.05			.12			1.05	.30		1.61
Spur ‖	Brazos		.04												T.	T.							.03	T.				T.					0.07
Stamford	do	.06												.10																			0.16
Sugarland ‖	do										.41														T.			.06		.18		.11	0.76
Sutherland Springs	San Antonio		.85																	1.35												.26	2.46
Tahoka	Brazos													.23									T.				T.	T.					0.23
Taylor	do	T.	.15	.14									.22	.58	T.			.71	.28	T.								T.			T.	T.	2.08
Temple ‖	do	.30	.02	.41								.03						.05															0.81
Thurber	do		.16																														0.16
Tivoli	Guadalupe				.75													1.25					1.50										3.50
Troup										.65											.04												0.69
Uvalde	Nueces			.75																.33				.80					.20				2.08
Valley Junction ‖	Brazos	.25		.32										.30				.80															1.67
Victoria ‖	Guadalupe												.20	1.35				1.60	.25													.20	3.60
Waco ‖	Brazos		.92	2.80															.35														4.07
Waxahachie ‖	Trinity		T.	T.																			T.	T.									T.
Weatherford ‖	do		.15																.18				T.										0.33
Wills Point	Sabine	T.	T.																														T.
Winters	Colorado															.16														1.00			1.16

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

TABLE 3.—*Maximum and minimum temperatures at selected stations for August, 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	83	46	78	43	90	57	95	63	83	51	88	50	80	50	90	61	79	59	92	60	94	70	97	67	90	72	87	76
2	85	43	79	40	90	59	95	61	85	48	92	52	82	50	91	60	80	59	93	58	96	70	97	66	91	72	91	76
3	84	45	80	38	93	59	96	60	86	49	89	47	84	53	92	61	83	58	95	56	96	68	98	66	92	74	90	75
4	85	40	83	41	91	59	94	59	85	45	88	50	82	54	90	61	85	58	93	52	97	70	98	68	95	73	92	74
5	84	40	85	40	94	63	96	62	89	53	86	55	86	53	93	66	82	59	94	58	99	71	100	68	95	74	87	76
6	85	40	81	43	95	64	98	66	89	53	89	45	85	55	92	67	82	60	95	64	98	72	100	69	96	71	89	76
7	84	41	82	44	95	65	99	67	89	60	91	55	80	52	93	67	83	57	95	60	99	70	100	70	94	72	88	74
8	85	46	81	46	92	63	100	66	91	49	88	56	80	53	96	69	84	59	98	62	100	73	102	73	94	76	89	79
9	83	51	81	51	94	67	101	69	91	52	88	50	80	53	95	67	81	56	98	67	100	75	104	73	92	79	87	81
10	83	45	81	45	95	69	101	70	90	50	86	55	80	58	97	67	84	59	98	62	99	76	101	74	94	76	87	80
11	81	51	75	51	93	67	92	67	82	56	82	52	74	52	90	69	74	58	90	63	97	76	101	73	95	74	86	80
12	80	49	75	49	86	65	97	68	85	47	85	50	76	54	91	65	73	55	92	58	98	75	100	73	94	72	87	78
13	80	49	75	44	82	62	95	63	82	50	83	48	78	50	89	60	80	54	92	58	96	74	100	73	95	72	90	77
14	81	46	78	48	89	60	94	63	76	47	87	47	82	52	90	63	80	60	93	60	96	73	95	68	93	76	88	77
15	82	45	83	45	92	64	98	64	86	50	87	52	83	53	92	67	84	58	99	60	96	72	96	68	92	74	88	78
16	83	42	79	42	94	64	97	65	87	49	92	55	85	54	94	68	87	58	96	60	98	76	99	68	94	76	89	78
17	82	46	80	48	93	64	95	63	89	48	92	54	80	55	93	66	79	61	93	61	99	76	99	70	96	73	84	77
18	84	50	78	46	94	64	98	63	86	51	84	53	78	53	93	66	81	59	93	64	93	70	95	71	96	73	89	76
19	81	45	78	48	90	66	95	66	.....	.....	88	50	78	52	90	65	76	56	91	65	94	71	95	68	96	70	88	77
20	80	51	81	46	94	63	96	61	.....	.....	87	52	80	52	92	66	81	57	93	65	96	73	97	72	92	74	90	77
21	81	46	78	47	93	64	95	62	89	53	84	52	80	55	92	64	80	58	94	65	99	74	100	70	89	72	89	76
22	82	50	73	47	92	68	94	67	86	51	88	55	77	55	86	68	69	55	83	65	97	69	97	70	88	72	86	75
23	81	47	77	45	90	65	91	66	82	52	86	54	80	50	86	66	73	54	89	58	94	69	98	70	95	71	91	75
24	78	45	76	44	92	67	95	65	84	49	88	56	80	52	92	60	82	56	92	58	96	69	98	69	95	71	93	77
25	80	44	78	41	93	63	93	63	85	50	90	60	82	54	85	64	78	59	85	59	99	71	100	73	91	72	88	78
26	82	42	79	41	91	59	95	58	80	48	84	50	80	50	92	58	81	54	94	59	98	72	101	68	93	70	92	75
27	85	42	81	42	93	57	96	62	87	51	87	52	80	54	93	63	85	58	94	63	97	70	99	62	93	73	88	76
28	83	43	75	43	90	62	95	61	87	50	82	48	78	53	90	62	76	58	93	57	96	71	97	61	93	74	89	78
29	80	43	78	42	88	61	94	62	86	48	80	46	78	50	88	64	73	54	89	62	97	71	99	64	96	74	90	77
30	83	41	77	43	89	60	93	60	.....	.....	85	45	80	50	86	57	80	55	89	55	93	68	96	64	96	71	91	76
31	81	40	79	41	88	63	95	61	.....	.....	82	52	78	52	88	67	79	55	89	57	95	72	95	70	96	75	87	78
Mns.	82.3	45.0	78.9	44.3	91.5	63.0	95.7	63.6	85.8[d]	50.4[d]	86.7	51.8	80.2	52.7	91.0	64.3	79.8	57.3	92.7	60.4	96.8	71.8	98.5	69.0	93.6	73.2	88.7	76.9

Date.	Texas.																											
	Del Rio.		El Paso.		Fort McIntosh.		Fort Stockton.		Fort Worth.		Galveston.		Halletsville.		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	.....	.....	88	64	102	74	97	70	95	74	86	77	97	76	92	73	99	70	95	74	90	68	94	75	101	80	93	74
2	.....	.....	89	70	99	74	91	63	96	73	87	78	99	76	94	75	95	72	91	72	92	58	93	70	101	80	93	70
3	.....	.....	91	65	101	73	91	63	92	70	92	79	99	76	96	75	92	72	91	71	95	55	96	71	100	79	92	72
4	.....	.....	89	67	104	74	95	65	99	76	94	79	97	77	96	76	97	70	95	72	95	61	95	73	101	80	97	73
5	.....	.....	93	66	103	75	97	67	97	75	93	80	101	74	96	77	100	67	96	70	96	62	99	73	103	82	98	73
6	.....	.....	93	70	101	75	98	67	99	76	96	80	100	71	99	76	103	70	99	72	95	62	97	72	102	81	98	69
7	.....	.....	92	69	101	75	100	66	102	75	94	81	101	72	99	79	104	70	100	74	95	62	98	71	100	79	99	72
8	.....	.....	92	68	104	75	104	71	101	78	85	72	101	75	93	76	99	74	98	77	96	65	97	73	100	79	97	75
9	.....	.....	93	72	103	75	106	72	97	78	88	78	99	78	90	75	91	75	92	75	100	71	96	76	99	76	97	76
10	.....	.....	95	74	102	78	102	70	99	75	89	80	99	77	91	76	99	71	95	74	97	69	95	75	98	77	97	73
11	.....	.....	90	64	101	71	99	68	98	77	87	82	97	76	93	76	97	73	95	74	98	63	97	75	100	80	97	72
12	.....	.....	83	66	101	75	95	66	96	78	82	74	96	74	85	74	98	73	93	73	95	62	96	75	101	81	95	73
13	.....	.....	85	65	101	75	93	67	94	73	84	75	91	75	90	74	97	72	92	71	95	64	94	74	101	80	93	71
14	.....	.....	88	65	99	76	91	65	94	74	87	78	94	74	93	75	95	73	92	74	91	62	92	74	100	75	91	71
15	.....	.....	94	66	103	77	95	64	98	75	88	82	95	75	95	76	100	73	95	74	93	62	96	75	102	76	96	74
16	.....	.....	93	66	102	77	100	68	99	77	88	71	96	72	96	71	102	72	96	74	94	65	96	75	104	74	97	75
17	.....	.....	89	68	100	77	99	67	94	76	83	73	90	76	88	71	97	70	89	74	94	65	89	73	104	76	94	71
18	.....	.....	93	68	100	74	96	66	95	72	83	79	90	74	86	74	97	71	92	72	92	66	90	71	100	72	83	71
19	.....	.....	90	70	100	74	97	65	94	72	86	82	88	75	92	74	99	71	94	71	92	62	92	72	102	70	92	71
20	.....	.....	92	68	98	74	97	67	99	75	92	80	95	72	95	73	98	68	97	74	95	65	94	70	104	73	96	71
21	.....	.....	91	70	99	72	98	60	99	77	86	80	95	74	91	73	98	70	93	74	97	62	94	72	106	77	94	74
22	.....	.....	89	64	101	72	95	67	94	76	87	80	95	75	92	75	98	68	94	74	90	67	96	72	98	74	96	72
23	.....	.....	88	67	101	72	96	64	96	75	89	79	98	75	97	76	100	70	97	74	86	64	100	75	97	73	98	74
24	.....	.....	90	69	100	72	97	68	96	65	86	80	100	76	90	75	96	72	94	72	93	62	100	74	102	60	97	69
25	.....	.....	92	67	100	73	100	66	100	72	86	76	95	71	91	72	95	64	94	68	95	62	96	72	105	68	95	69
26	.....	.....	91	68	98	74	100	65	100	74	86	78	95	69	93	69	99	60	95	68	100	62	96	71	106	73	96	72
27	.....	.....	90	66	100	69	100	61	97	74	86	67	91	71	83	74	95	65	93	67	97	63	93	67	105	70	93	66
28	.....	.....	88	67	100	70	96	61	94	75	87	80	98	73	91	74	99	68	94	74	96	63	93	72	104	70	94	67
29	.....	.....	85	60	100	74	90	62	102	75	89	79	97	72	95	75	96	72	95	75	90	63	96	73	102	68	96	74
30	.....	.....	87	63	101	74	91	65	101	73	87	79	97	77	93	75	98	67	97	72	92	61	98	74	102	67	98	75
31	.....	.....	89	64	101	75	92	67	98	74	88	81	90	70	92	75	99	68	96	71	91	60	92	72	101	68	91	70
Mns.	.....	.....	90.1	67.0	100.8	74.0	96.7	65.9	97.3	74.5	87.8	78.0	96.0	74.1	92.5	74.5	97.8	70.0	94.5	72.6	94.1	63.0	95.2	72.7	101.6	74.8	94.7	71.9

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