CLIMATOLOGICAL DATA FOR OCTOBER, 1911.

DISTRICT NO. 8, TEXAS AND RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

GENERAL SUMMARY.

The mean temperature for the district as a whole was nearly normal, with a large per cent of sunshine, and conditions generally were favorable for field work. The first week was exceptionally warm, after which the usual changes of temperature incident to the season occurred. Dense fogs occurred at many New Mexico stations during the last week. The precipitation was decidedly in excess of the normal throughout the northwestern portions of the district and generally deficient in southern New Mexico and in Texas. Unusually heavy rains occurred on the 4th and 5th over the upper Rio Grande Valley, which caused a serious flood in that river, with much loss of property and some loss of life. A special report of this flood will be found elsewhere in this summary. From the 6th to the 25th there was a period of almost uninterrupted sunshiny weather in New Mexico and Colorado, which was followed by rainy weather that lasted until the 31st. In Texas the precipitation occurred at more or less irregular intervals throughout the month. The average number of days with 0.01 inch or more of precipitation was 6 in Colorado and 5 in New Mexico and Texas.

The greatest and least monthly amounts of precipitation in Colorado were 6.28 inches at Cumbres and 1.12 inches at Garnett; in New Mexico, 6.86 inches at Harveys Upper Ranch and 0.30 inch at Agricultural College and at Orange; and in Texas, 7.75 inches at Port Arthur, while practically none occurred at 9 stations, mostly in the western part of the State. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 3 stations in Colorado, 4 in New Mexico, and 14 in Texas, the heaviest being 6.75 inches at Eagle Pass, Tex., on the 12th and 13th.

Snow fell on several days in the northwestern portions of the district, the depth of fall increasing from a fraction of an inch in northwestern Texas to 3 feet in the northern mountains of New Mexico. Over the lower levels the snow disappeared rapidly, but in the higher mountains the depth of snow at the close of the month ranged from 1 foot in the more exposed places to 3 or 4 feet in the timber and in the gulches.

TEMPERATURE.

The monthly mean temperature was 0.6° above the normal in Colorado and 1.5° below in New Mexico, and averaged about normal in Texas. The month opened unusually warm, and warm weather continued until the 6th, when a moderately cool spell gave relief from the protracted heat. Warm weather occurred again from the 10th to the 16th, but during the latter part of the month the temperature averaged below the normal. The coldest weather of the month occurred from the 21st to 23d, when freezing temperatures were recorded in the greater portion of the district. The diurnal range of temperature varied from 10° on the upper Texas coast to 38° in the extreme northern portion of the district.

The highest and lowest temperatures reported were: In Colorado, 77° at San Luis on the 3d and −4° at Hermit on the 21st; in New Mexico, 97° at Carlsbad on the 3d and 4° at Red River Canyon on the 19th and 20th; and in Texas, 104° at Fort McIntosh on the 2d and 24° at Fort Stockton and Marathon on the 22d. The local monthly means ranged from 37.7° to 46.2° in Colorado; from 41.7° to 63.7° in New Mexico; and from 58.8° to 75.6° in Texas.

PRECIPITATION.

Unusually heavy rains occurred over the upper reaches of the Rio Grande watershed and over a limited area in the lower valley from Eagle Pass, Tex., southward to Fort McIntosh. Over a long stretch extending from Alamogordo, N. Mex., to Fort Clark, Tex., and in the extreme lower valley the precipitation was less than normal, portions of the valley in Texas between El Paso and Del Rio receiving no moisture. The average for the watershed was 2.13 inches. While the greatest monthly precipitation, 7.68 inches, occurred at Eagle Pass, Tex., a large number of stations in the upper watershed had from 4 to 5 inches. There was no precipitation at Marfa and Valentine, Tex., and a trace only at Marathon, Tex.

The precipitation over the Rio Pecos watershed was generally deficient, although it was exceptionally heavy over the extreme upper portion, which brought the average for the watershed up to 1.45 inches. There was very little precipitation south of Carlsbad, N. Mex., and practically none at Theodore, Grand Falls, and Fort Stockton, Tex. The greatest monthly amount was 6.86 inches at Harveys Upper Ranch, N. Mex.

Although the Texas watersheds showed a decided improvement over the conditions reported for September, the precipitation was generally below the normal. Some heavy rains occurred over the upper portions of the Nueces and San Antonio drainage basins, over portions of the coastal plains, and over a few limited areas in the remaining watersheds except that of the Trinity. The following are the average monthly amounts in inches for the various watersheds: Nueces, 2.81; San Antonio, 2.52; Guadalupe, 2.61; Lavaca, 2.44; Colorado, 2.24; Brazos, 1.83; Trinity, 1.84; Neches, 2.84; Sabine, 2.30; and coastal plains, 2.89. The greatest monthly amount was 7.75 inches at Port Arthur in the upper coastal plains, while practically no precipitation occurred at Eola in the Colorado watershed and at Hamlin in that of the Brazos, and at Harlingen in the coastal plains.

RIVER CONDITIONS.

There was ample water in the Rio Grande and in the Rio Pecos for irrigation purposes. In fact, the upper Rio Grande was at flood stage after the heavy rains of the 4th and 5th, and sharp rises occurred in the lower portion of that stream from the 13th to 16th after excessively heavy rains at Eagle Pass, Tex., and surrounding sections on the 12th and 13th.

The Texas streams were unusually low throughout the month, and no rises of consequence occurred. The Guadalupe, the middle Colorado, and the middle Brazos were the lowest of record for October.

MISCELLANEOUS.

Frosts.—Killing frosts occurred at the higher northern stations in New Mexico from the 6th to 8th, but a general killing frost did not occur over the northern counties until the 16th, and over the central and southern counties until the 22d. In the Texas area the first general frost was delayed until the 22d, although in a few northwestern and western localities the first frost of the season occurred on the 20th or 21st. The frost of the 22d was killing in northwestern and western counties, and heavy to light in northeastern, eastern, and southern counties. There was no frost, however, in the lower Rio Grande Valley and along the Gulf coast.

Local storms.—A destructive wind and rainstorm occurred at Eagle Pass, Tex., at 10 p. m. of the 12th. It was preceded by much sultry weather. The storm came from the west and the wind blew at an estimated velocity of 50 miles per hour. The accompanying precipitation was torrential, 6.75 inches falling in about 8 hours. A reservoir valued at $15,000 was demolished, and 300 houses in Porfirio Diaz, Mex., across the Rio Grande, were washed away, rendering 1,500 people homeless.

A violent local storm, probably tornadic in character, occurred at Thelma, Tex., on the 30th, and demolished the schoolhouse, several dwellings and barns, and injured two farmers, who were blown from their wagons. Trees were uprooted and all crops in the path of the storm were destroyed.

THE FLOOD IN THE RIO GRANDE.

By FREDERICK H. BRANDENBURG, District Forecaster.

Torrential rains over the drainage basin of the Rio Grande from its head in the San Juan Mountains almost to El Paso, Tex., on the 4th and 5th of October, 1911, caused a severe flood in its upper reaches and very high water for several days in the lower part of the river.

The San Luis Valley is rarely visited by heavy rains; in fact this region is one with the lightest rainfall in Colorado. While heavy precipitation occurs nearly every year over the higher part of the watershed, it comes principally in winter in the form of snow, and such freshets as occur result from a too rapid melting of the snow. As a rule little or no damage results from this cause in the upper part of the drainage basin.

The rainfall on the 4th and 5th was heavy. At Wagon Wheel Gap Experiment Station, maintained by the Weather Bureau in cooperation with the Forest Service, elevation 9,235 feet, rain began at 5 p. m. October 4 and continued steadily until 4 p. m. of the 5th, after which light rain fell until midnight of the 5th. The total fall at the station was 2.65 inches, while near by at the mountain top station, elevation 10,956 feet, the total fall was 3.62 inches, showing a marked increase with elevation. Mr. Peter Keplinger, of the Forest Service, in crossing the Continental Divide, from the San Juan country, found trees estimated at 50 years old uprooted by the flood in small ravines. In the northern part of the San Luis Valley the precipitation was not excessive, but in Costilla County, on the east side of the Rio Grande, the amounts ranged from 1.90 at San Luis to 3.13 inches at Blanca. The rainfall was very heavy also along the Conejos, the most important tributary of the Rio Grande in Colorado; at Platoro, on the upper part of this watershed, the rainfall for the two days was 3.30 inches. The average rainfall, at five stations along the Chama in north-central New Mexico was 2.95 inches, with the greatest amount, 4.34 inches, at Cumbres Pass, near which place the Chama has its beginning. Heavy rainfalls also occurred along the trunk stream as far south as the center of the State.

The damage was mostly confined to San Luis Valley, the destruction beginning in the upper part of the valley. Towns were inundated, bridges, houses, and barns were carried away, but there was no loss of life. The ranchmen were heavy losers, but the principal damage was to the railroad. Practically all wagon bridges were washed away and the roads left in an impassable condition.

The loss, exclusive of that sustained by the railroad, is estimated at about $100,000.

In Rio Grande County 8 wagon bridges were washed away, 5 miles of railroad track ruined and about 50 miles damaged, and hundreds of head of cattle and hogs were lost. The river spread out, and in places was from 2 to 4 miles wide. The State bridge above South Fork withstood the flood, but one steel bridge was carried out and also the State bridge under construction at Seven-Mile Plaza. In Alamosa the principal damage resulted from the breaking of a dike and the inundation of 30 city blocks.

The Conejos, which joins the trunk stream near Antonita, carried away tons of hay and field peas and acres of potatoes, besides drowning large numbers of live stock. All the bridges along the Conejos and Alamosa were carried out.

In New Mexico where the river bed of the trunk stream is of greater capacity, the damage was not so serious, the flood not reaching the proportions of that of last July. The breaking of the river bank about 28 miles above El Paso caused a damage of about $4,000. About 25 miles below El Paso the water encroached on the Galveston, Harrisburg & San Antonio Railroad right of way, necessitating much reinforcing of the roadbed.

At Espanola the highest stage, 8.4 feet, occurred on the 6th; at San Marcial, 14.3 feet, on the 7th; and at El Paso, 16.5 feet, on the 13th.

TABLE 1.—*Climatological data for October, 1911. 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	2																	Dr. L. C. Audrain.
Cumbres	Conejos	10,015	4								6.28		3.08	17.0	7	13	9	9	sw.	Mrs. Ida M. Lively.
Garnett	Costilla	7,576	18	43.8	+ 1.5	76	1	13	22	50	1.12	+ 0.52	0.74	5.0	4	16	8	7	sw.	Chas. Speiser.
Hermit	Hinsdale	9,843	4					− 4	21		3.38		2.06	8.0	5	20	2	9		Marion Mason.
La Veta Pass	Costilla	9,000	1																	Clara M. Wright.
Manassa	Conejos	7,700	5	43.2		71[a]	2†	0[a]	21	48[a]	2.28		1.28	4.0	4	22	3	6	sw.	J. B. Chapman.
Platoro	do	9,675	4								4.99		3.25	16.8	13	20	4	7	w.	Walter R. Hook.
Saguache	Saguache	7,740	19	46.2	+ 1.1	76	13†	9	21	46	2.20	+ 1.48	1.20	4.0	3	22	2	7	w.	Eugene Williams.
San Luis	Costilla	7,794	20	44.4	− 0.8	77	3	3	21	51	3.20	+ 2.26	1.50	7.0	8	18	7	6	sw.	P. B. Albright.
Wagon Wheel Gap Experiment Station.	Mineral	9,235		37.7		63	13	6	21	37	3.61		2.60	7.8	6	19	5	7	nw.	U. S. Weather Bureau.
New Mexico.																				
Agricultural College	Dona Ana	3,863	49	60.6	− 1.4	89	1†	30	22	43	0.30	− 0.39	0.12	0	4	12	19	0	sw.	Agricultural College.
Alamogordo (near)	Otero	4,338	10	59.5	− 0.8	90	2	23	23	50	1.46	+ 0.71	0.75	0	6	14	11	6	sw.	Charles Sutton.
Alamogordo	do	4,320	2								1.25		0.60	0	4					Agent E. P. & S. W. R. R.
Alamos Ranch	Sandoval	7,800	1								5.81		3.48	0	6	22	0	9	sw.	Harold H. Brooks.
Albuquerque	Bernalillo	5,000	35					21	21		3.30	+ 2.58	1.84	0	6	21	6	4		Pitt Ross, C. E.
Ancho	Lincoln	6,112	2								1.04		0.45		6					Agent E. P. & S. W. R. R.
Anchor Mine	Taos	10,600									4.49		1.07	38.0	9	13	10	8	e.	Charles H. Brigham.
Artesia	Eddy	3,350	4	60.6		95	15	25	22	54	0.92		0.60	0	3	21	5	5	se.	Will Benson, C. E.
Aspen Grove Ranch	Rio Arriba	9,000	2								4.53		1.73	9.3	7	15	12	4		Junius D. Maupin.
Bateman's Ranch	do	8,900	2								4.59		1.70	9.8	7	18	6	7	w.	John W. Bateman.
Berino	Dona Ana	3,788									0.62		0.23	0	5	19	8	4	e.	C. A. Thompson.
Bluewater	Valencia	6,732	9	48.1	− 0.2	82	17	15	19	54	1.89	+ 0.83	1.29	T.	3	18	8	5	s.	Bluewater Development Co.
Boaz	Chaves	4,154	2	57.1		91	2	26	22	52	1.12		0.43	2.0	4	20	6	5	sw.	D. C. Savage.
Capitan	Lincoln	6,348	2								0.84		0.53	2.0	5	15	7	9	n.	Agent E. P. & S. W. R. R.
Carlsbad	Eddy	3,120	16	63.7	+ 0.3	97	3	26	22	53	0.33	− 0.86	0.25	0	2	21	4	6	se.	U. S. Reclamation Service.
Carrizozo	Lincoln	5,429	3	55.9		82	3†	26	22	39	0.69		0.30	0	5	22	9	0	sw.	Agent E. P. & S. W. R. R.
Chama	Rio Arriba	7,851	12	42.8	− 4.5	70	13	9	21	42	4.15	+ 2.66	2.30	11.0	5	22	9	0	sw.	Frank C. Johnson.
Cloudcroft	Otero	8,650	8	46.6		74	8	20	20†	45	1.80	+ 0.29	0.79	T.	5	22	5	4	sw.	Agent E. P. & S. W. R. R.
Corona	Lincoln	6,666	2								0.83		0.55	1.0	3	9	15	7	se.	Do.
Coyote	do	5,800	2								1.20		0.47	T	7	21	1	9	sw.	Do.
Cundiyo	Santa Fe	6,889	2								2.51		0.91	0	5	19	4	8	w.	Juan Vijil.
Demonstration Farm	San Miguel	6,800	2								2.65		1.22	4.0	6					Erb & Westerman.
Duran	Torrance	6,272	2								0.45		0.35	2.0	2	24	2	5		Agent E. P. & S. W. R. R.
Escondido	Otero	4,014	2			92	2				1.05		0.71	0	4	24	6	1	sw.	Do.
Espanola	Rio Arriba	5,590	13	49.8	− 2.0	79	3	21	25	47	3.64	+ 2.61	2.00	2.0	7	18	6	7	s.	Mrs. Ella F. McBride.
Estancia	Torrance	6,140	6	48.8		88	1	26	31	38	1.54		0.26	2.0	10	12	12	7	e.	Agent N. Mex. Central R. R.
Fort Stanton	Lincoln	6,231	33	51.1	− 0.7	82	2†	18	23	49	2.28	+ 0.92	1.01	0.5	6	20	4	7	w.	U. S. Sanitarium.
Fort Sumner	Guadalupe	3,960	3																	F. A. Manzanares.
Gallinas	Lincoln	6,635	2								1.03		0.88	0	2	20	5	6	w.	Agent E. P. & S. W. R. R.
Gallinas Planting Sta.	San Miguel	7,500	4	46.8		78	1†	13	21	43	3.42		2.69	7.0	6	20	2	9	s.	U. S. Forest Service.
Glorieta Ranch	Socorro	5,700	1								2.51		2.10	0	5	24	0	7	n.	Charles M. Crossman.
Harvey's Upper Ranch.	San Miguel	9,400	2								6.86		2.71	31.0	9	16	10	5	sw.	Simon B. Warner.
Hillsboro	Sierras	5,224	13																	Dr. F. I. Givens.
Hondo Reservoir	Chaves	3,904	2	58.5		92	2	25	22	50	0.88		0.40	T.	4	22	5	4	se.	U. S. Reclamation Service.
Jemez Springs	Sandoval	6,100	2	48.8		74	2	24	21	37	5.19		3.20	3.0	6	15	5	11	sw.	Linus L. Shields.
Knowles (near)	Eddy	4,300	2	59.6		92	2	23	22	60	0.51		0.39	0	3	22	4	5	sw.	J. W. Mosley.
Laguna	Valencia	5,840	6																	Gus Weiss.
Lagunita	Guadalupe	4,500	6																	P. A. Turnbull.
Lake Valley	Sierra	5,412	6								1.96		1.38	0	5	22	8	1	sw.	William P. Kell.
Lakewood	Eddy	3,170																		Miss Josephine Knapp.
Las Vegas	San Miguel	6,385	24	47.4	− 2.3	78	2	18	21	44	2.83	+ 1.73	1.45	5.0	6	22	3	6	s.	N. Mex. Normal University.
Liston	Chaves	5,000	1								1.01		0.71	2.0	3	17	7	7	sw.	H. G. Liston.
Los Lunas (near)	Valencia	4,900	21	52.6	− 1.1	89	1	22	22†	47	3.28	+ 2.34	1.32	0	5	20	6	5		Richard Pohl.
Magdalena	Socorro	6,557	6	50.8		78	2	21	22	44	2.04		1.05	0	6	22	6	3	w	William Pender.
Mescalero	Otero	6,627		50.6		77	2†	20	22	37	1.89		0.77	T.	6	22	3	6	sw.	Rev. R. H. Harper.
Mineral Hill	San Miguel	7,050	6								4.12		1.60	7.5	5	12	13	6	w.	W. M. Nelson.
Monterey	Otero	4,436	2								0.72		0.42	0	5	20	7	4		Agent E. P. & S. W. R. R.
Mountainair	Torrance	6,547	10	49.8	− 0.6	83	3	20	20	44	2.00	+ 0.78	0.56	1.2	5	15	9	7	sw.	Miss Julia Hill.
Newman	Otero	3,989	2			90	3†	28	22		0.31		0.25	0	2	24	5	2		Agent E. P. & S. W. R. R.
Noria	Dona Ana	4,114	2			94	4	32	22†		0.42		0.22	0	3	24	2	5	w.	Do.
Orange	Otero	5,000	4								0.30		0.30	0	1					J. Brownfield, jr.
Orogrande	do	4,171	2			92	2†				0.74		0.67	0	4	22	7	2	w.	Agent E. P. & S. W. R. R.
Oscura	Lincoln	5,016	2								0.86		0.49	0	6					Eugene F. Jones.
Otis	Eddy	3,100	2								0.75		0.30	0	3	24	4	3	s.	A. M. Hove.
Otto	Santa Fe	6,200	2								3.06		1.05	0.4	8					O. H. Johnson.
Pastura	Guadalupe	5,285	2			78	1†	28	27		1.56		1.05	1.5	7	18	5	8	s.	Agent E. P. & S. W. R. R.
Placitas (near)	Bernalillo	8,000	1	45.0		70	2	16	21	34	3.65		2.06	3.0	5	23	1	7	w.	George C. Ellis.
Plainview	Chaves	4,300		59.8		95	2	25	22	50	1.94		0.89	2.0	6	20	6	5		L. P. Adair.
Red River Canyon	Taos	8,956	3	46.1		71	11	4	19†	54	3.50		2.06	21.0	7	19	7	5	e.	Mrs. L. R. Penn.
Rincon	Dona Ana	4,030	13	60.2	+ 0.2	92	2	23	22	51	0.38	− 0.06	0.38	0	1	17	10	4	s.	C. H. Raitt.
Rio Grande Dam	Sierra	4,265	13	61.9		90	1	30	23	43	0.87	+ 0.24	0.64	0	2	27	3	1	ne.	U. S. Reclamation Service.
Rio Grande Industrial School.	Bernalillo	5,000		53.3	− 2.7	85	2	21	22	52	3.66		1.73	0	4	24	1	6	s.	Rev. A. C. Heyman.
Rosedale	Socorro	6,910	6	50.2		74	2†	21	21	32	1.77		1.00	0	5	24	4	3	w.	Mrs. J. J. McInness.
Roswell	Chaves	3,578	13	57.2	− 2.3	92	2	26	22	51	1.14	− 0.38	0.44	T.	7	17	9	5	w.	U. S. Weather Bureau.
San Marcial	Socorro	4,439	14	56.5	− 1.3	84	2	28	22†	42	1.31	+ 0.46	0.77	0	5	23	4	4	ne.	Agent A. T. & S.F. R. R.
San Rafael	Valencia	6,509	7	50.8		82	1	19	21†	53	2.08		0.98	6.0	4	23	2	6	sw.	Dr. Charles M. Grover.
Santa Fe	Santa Fe	7,013	38	46.8	− 3.2	74	2	21	21	34	3.13	+ 2.06	1.83	3.0	8	22	4	5	ne.	Section Center.
Santa Fe Canyon	do	8,000	1								3.77		1.30	1.0	5	21	2	8	w.	C. Martinez.
Santa Rosa	Guadalupe	4,624	11	55.0		88	2	23	22	49	1.50	+ 0.50	0.92	0.8	4	18	13	0	w.	John L. Chapman.
Socorro	Socorro	4,600	19	55.5	− 2.5	87	4	24	21	48	2.29	+ 0.95	1.24	0	6	25	2	4	n.	J. J. Leeson.
South Fork	Taos	8,405									4.98		1.70	23.0	10	17	4	10	sw.	Frank Hamm, jr.
Stanley	Santa Fe	6,317	2																	H. Winan.
Strauss	Dona Ana	4,080	12								0.41	− 0.29	0.33	0	2	25	3	3	e.	Agent So. Pac. Ry.
Taft	Guadalupe	5,000	1								1.45		0.66	3.0	4	20	4	7	s.	J. F. Nappier.
Tajique	Torrance	6,900	1								2.58		1.50	4.0	4	19	8	4		U. S. Forest Service.
Taos	Taos	6,983	13	48.8	− 0.9	78	3	15	21	45	3.24	+ 2.41	1.38	T.	10	20	5	6	sw.	Alexander Gusdorf.
Taos Canyon	do	8,952	2								3.02		1.21	9.0	11					L. Martinez, jr.
Tecolote	Lincoln	6,539	2								0.89		0.55	T.	4	20	5	6	w.	Agent E. P. & S. W. R. R.
Three Rivers	Otero	4,559	2								0.87		0.58	0	5	22	3	6		Do.
Tijeras Canyon	Bernalillo	6,214	1																	U. S. Forest Service.
Torrance	Torrance	6,433	2								0.88		0.44	1.0	7	13	12	6	ne.	Agent E. P. & S. W. R. R.
Tres Piedras	Taos	8,076	6								4.25									U. S. Forest Service.

TABLE 1.—*Climatological data for October, 1911. 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.
New Mexico—Contd.																				
Truchas	Rio Arriba	7,935	2	43.6		68	14	13	21	30	3.11		1.20	7.2	9	12	12	7	w.	Miss Ruth Rendon.
Tularosa	Otero	4,436	3																	Irby L. Fairless.
Vaughn	Guadalupe	5,952	2			80	1	26	21		0.84		0.27	6.0	5	17	8	6	w.	Agent E. P. & S. W. R. R.
Virsylvia	Taos	7,500	1	46.6		79	2	10	22	42	3.38		1.80	3.2	8	21	2	8	sw.	Dr. I. N. Woodman.
Winsors	San Miguel	8,200	13	41.7	− 0.3	68	3†	12	21	43	4.56	+ 2.72	2.24	6.0	9	18	3	10	w.	Henry D. Winsor.
Texas.																				
Abilene	Taylor	1,738	26	64.7	+ 0.5	94	3	32	22	34	1.37	− 0.96	0.73	0	5	16	8	7	s.	U. S. Weather Bureau.
Albany	Shackelford	1,429	17	63.4	− 1.1	96	1†	31	24	46	0.98	− 1.10	0.65	0	3					N. L. Bartholomew.
Alice	Jim Wells	209		73.6		99	3	40	23	35	1.45		0.75	0	5	9	10	12	n.	R. M. Boerum.
Alpine	Brewster	4,482	1								0.70		0.70	0	1	20	5	6	sw.	J. Frank Dobie.
Alvin	Brazoria	49	13	70.4		93	4	40	22†	32	2.59	− 2.23	1.20	0	3	15	6	10	n.	Alvin Japanese Nursery.
Anahuac	Chambers	23	2								4.05		1.55	0	7					B. H. Collins.
Antelope	Jack										0.30		0.22	0	2	22	7	2		Chas. C. Hawkins.
Aspermont	Stonewall										0.40		0.40	0	1	21	4	6	s.	Bryant Link Co.
Austin	Travis	593	55	67.8	− 0.3	95	4	39	22	28	3.39	− 0.56	1.33	0	9	17	3	11	s.	A. Deussen.
Ballinger	Runnels	1,637	15	64.0	− 0.5	98	6	28	22	40	2.20	+ 0.02	2.10	0	2	15	6	10	s.	E. M. Eubank.
Barstow	Ward	2,573	4	67.4		99	3	26	22	51	0.15		0.15	0	1	25	3	3	e.	Lee F. Freeman.
Bay City	Matagorda	53	1								5.29		2.24	0	5	16	2	13	n.	E. C. Quereau.
Beaumont	Jefferson	29	10	71.2	− 0.2	96	1	41	24	36	5.73	+ 2.90	2.38	0	9	17	0	14	ne.	John Bender.
Beeville	Bee	225	15	74.0	+ 1.9	96	4†	36	23	42	0.82	− 1.69	0.20	0	7	13	6	12	n.	L. E. Dickey.
Big Spring	Howard	2,396	13	65.8		98	2	27	22	43	0.25	− 1.89	0.23	0	2	18	9	4	s.	B. Reagan.
Blanco	Blanco	1,350	15	67.4	+ 0.4	97	4	34	23	41	2.24	− 0.83	1.08	0	6	12	16	3	s.	R. C. Crist.
Boerne	Kendall	1,412	19	67.0	+ 0.3	97	3	32	22	43	1.97	− 1.01	0.78	0	7	11	11	9	n.	F. W. Schweppe.
Booth	Fort Bend	81	10								4.42	+ 0.92	1.75	0	10	18	0	13	n.	T. R. Booth.
Bowie	Montague	1,113	16	67.2	+ 0.8	99	4	35	22	40	0.50	− 2.49	0.32	0	3	19	5	7	n.	Craig Anderson.
Brady	McCullough	1,500	10																	G. W. Virling, jr.
Brazoria	Brazoria	25	22	72.4	+ 2.2	93	7	37	23	39	3.84	− 0.21	1.28	0	9	18	7	6	n.	Mrs. M. A. Stevens.
Brazos	Palo Pinto	801	2								1.03		0.72	0	3	16	8	7	n.	Robt. E. Boyett.
Brenham	Washington	350	26	69.8	0.0	98	3†	41	22†	34	2.89	+ 0.13	0.89	0	7	15	4	12	n.	Mrs. B. F. Sloan.
Bridgeport	Wise	754	2								0.36		0.26	0	2	15	5	11	s.	Claude Strange.
Brighton	Nueces	12	18	75.6	+ 1.4	94	4†	39	23	36	0.50	− 1.43	0.30	0	3	21	2	8	ne.	G. H. Ritter.
Brownsville	Cameron	38	47	75.3	+ 0.9	94	14	44	23	35	0.66	− 2.55	0.24	0	6				se.	U. S. Weather Bureau.
Brownwood	Brown	1,342	19	65.4	− 0.3	99	2	29	22	45	0.86	− 1.17	0.33	0	4	12	17	2	n.	Mrs. Pearl Smith.
Cameron	Milam		3	68.		98	4†	37	22	41	1.32		0.45	0	4	25	4	2	s.	J. E. Watts.
Carmona	Polk	330	3	68.8		97	4†	33	23	41	3.03		1.29	0	7	18	5	8	s.	M. S. Spitler.
Clayton ville	Fisher	2,100	16	65.2	+ 1.6	95	1†	30	22	37	0.89	− 1.56	0.48	0	2	11	12	8	se.	Wm. Lanius.
Clifton	Bosque	671									2.17		1.17	0	6	12	12	7	s.	R. M. Jones.
Coleman	Coleman	1,710	17	67.9	+ 2.2	95	3†	35	22	37	3.37	+ 1.20	1.11	0	5	12	13	6	n.	J. E. Stevens.
College Station	Brazos	308	21	70.4	+ 1.0	98	4	38	22	32	3.55	+ 0.72	1.99	0	9	12	9	10	s.	Prof. G. S. Fraps.
Colorado	Mitchell	2,066	17	65.0	+ 1.0	96	1†	29	22	48	0.32	− 1.41	0.22	0	2	21	4	6	s.	R. M. Webb.
Columbia	Brazoria	34	22	70.8	+ 1.4	94	1	35	23	47	3.50	+ 0.39	2.00	0	5	20	10	1	s.	R. B. Loggins.
Columbus	Colorado	206	7								3.74		1.46	0	7	14	3	14	n.	Mrs. Sophie Bridge.
Corpus Christi	Nueces	20	24	73.6	+ 1.0	89	7	47	22	22	0.86	− 1.19	0.52	0	12	13	10	8	n.	U. S. Weather Bureau.
Corsicana	Navarro	445	22	66.2	− 1.0	98	3	36	22	36	0.92	− 1.82	0.37	0	6	13	9	9	s.	D. H. Winn.
Cotulla	La Salle	425	4								1.05		0.80	0	2					Holland Agr. Co.
Crockett	Houston	350	7	69.5		101	4	35	22	36	2.95		1.11	0	8	20	2	9	s.	A. M. Rencher.
Cuero	De Witt	177	21	72.2	+ 0.6	100	6	39	23	41	3.48	+ 0.67	2.07	0	11	14	3	14	s.	H. R. Frobese.
Dallas	Dallas	466	22	67.2	+ 1.3	99	4	33	22	46	2.08	− 0.44	1.02	0	6	12	0	19	s.	G. A. Eisenlohr.
Danevang	Wharton	145	15	72.2	+ 1.3	95	4†	36	22	38	2.15	− 2.27	1.45	0	3	22	4	5	n.	H. P. Hermansen.
Decatur	Wise	1,047	15																	Ft. Worth & Denver City Ry.
Del Rio	Valverde	952	5	70.8	+ 0.9	97	3	34	23	39	1.11	− 0.38	0.70	0	5	9	15	7	se.	U. S. Weather Bureau.
Devine	Medina	653	1	72.3		99	1†	37	22	42	1.97		1.10	0	3	17	6	8	se.	M. A. Keller.
Dialville	Cherokee	575	7	67.9		98	3	36	22	31	2.13		1.10	0	3	17	6	8	n.	J. M. B. McKnight.
Dilley	Frio	569	1								1.55		0.50	0	4					John W. Miller.
Dublin	Erath	1,466	15	66.4	+ 1.0	97	1	34	22†	46	1.03	− 1.79	0.49	0	3	14	6	11	n.	Jno. O. Shafer.
Duval	Travis	820	22	68.8	− 1.3	95	3†	39	22	31	3.50	+ 0.50	1.49	0	8	18	3	10	n.	J. C. Edgar.
Eagle Pass	Maverick	800	34	72.4	+ 0.9	98	2†	33	23	40	7.68	+ 6.10	6.75	0	4	14	12	5	se.	Charles Tarver.
Eastland	Eastland	1,420	4	66.0		95	16	31	22	54	1.65		1.15	0	2	12	3	16		J. R. Gilbreath.
Edna	Jackson	71	2								1.19		0.58	0	5					E. L. Faires.
El Paso	El Paso	3,762	32	63.3	+ 0.9	91	2	35	22	38	0.43	− 0.52	0.38	0	5	21	8	2	e.	U. S. Weather Bureau.
Encinal	La Salle	558	3																	H. C. Braden.
Eola	Concho										T.		T.	0	0					E. W. Neal.
Fairland	Burnet	1,000	22	70.2[3]	+ 2.8	99	6	34	22	45[1]	1.80	− 0.22	0.72	0	8	20	3	8	s.	R. L. Bush.
Falfurrias	Brooks		3	74.6		100	3	35	23	44	3.61		1.89	0	6	19	6	6	se.	W. A. Gardner.
Flatonia	Fayette	465	3	70.8		96	4†	39	22	33	4.24		2.15	0	7	15	6	10	n.	Fred W. Laux.
Flint	Smith	483	1	67.8		97	3†	36	22	38	3.89		2.35	0	5	18	4	9	n.	F. C. C. Carter.
Floydada	Floyd																			F. H. Schmidt.
Fort Clark	Kinney	1,050	40	65.6	− 4.3	98	3	38	24	35	1.54	− 0.35	0.80	0	4	8	10	13	n.	Post Hospital.
Fort McIntosh	Webb	460	43	75.2	+ 1.8	104	2	40	23	40	3.07	+ 1.91	1.00	0	5	12	8	11	e.	Do.
Fort Stockton	Pecos	3,050	14	66.6	+ 2.3	102	3	24	22	44	T.	− 1.34	T.	0	0	9	20	2	s.	H. H. Butz.
Fort Worth	Tarrant	670	16	66.2	− 0.1	95	1	36	22	35	0.99	− 1.52	0.37	0	5	12	13	6	s.	U. S. Weather Bureau.
Fredericksburg	Gillespie	1,742	22	67.0	+ 1.1	92	3†	34	22†	37	1.39	− 0.78	0.47	0	5	13	11	7	n.	Arthur Striegler.
Gainesville	Cooke	738	21	66.9	+ 1.6	97	4	35	22	40	2.47	− 0.87	1.75	0	4					J. L. Hickson.
Galveston	Galveston	69	40	72.7	+ 0.3	88	3	49	22	26	5.92	+ 1.74	1.87	0	9	16	4	11	n.	U. S. Weather Bureau.
Gatesville	Coryell	795	7	62.2[f]		95		34	22	40[f]	2.25		0.80	0	6					John Ryan.
Georgetown	Williamson	750	16	66.8	− 0.2	96	4	35	23	44	2.08	− 1.03	0.80	0	10	15	9	7	s.	Prof. R. F. Young.
Gonzales	Gonzales	299	6								3.09		2.30	0	4	16	1	14	n.	J. M. Johnson.
Gorham	McLennan	444	2					36			3.30		3.00	0	3	23	5	3	s.	John Gorham.
Graham	Young	1,040	12	68.8[e]	+ 3.7	98	6	39[i]	17†	48[i]	0.53	− 1.88	0.27	0	3	24	2	5	s.	C. W. Johnson.
Grand Falls	Ward		1								0.00		0.00	0	0	6	21	4		W. A. White.
Grand Saline	Van Zandt	399	1								3.20		1.75	0	4	14	12	5	se.	F. E. Whittemore.
Grapevine	Tarrant	670	21	69.3	+ 1.6	98	1†	41	31	38	0.97	− 2.04	0.52	0	5	14	10	7	n.	W. J. Crowley.
Greenville	Hunt	550	11					37	22		1.13	− 2.76	0.63	0	3	15	0	16	se.	J. P. Regan.
Hallettsville	Lavaca	235	19	70.3	− 0.3	94	5†	40	23	30	3.70	+ 0.51	1.70	0	5	17	2	12	n.	Dr. J. E. Lay.
Hamlin	Jones	1,685									T.		T.	0	0					W. S. Carruthers.
Harlingen	Cameron	37									0.00		0.00	0	0	27	4	0		Dr. C. W. Letzerich.
Harper	Gillespie										2.74		1.17	0	4	17	0	14		Christian Fritz.
Haskell	Haskell	1,553	16	65.6	0.0	99	5	35	21†	40	0.27	− 1.44	0.25	0	2	20	6	5	s.	P. D. Sanders.
Hebbronville	Duval		4								1.80		0.90	0	4					Henry Edds.
Hempstead	Waller	264	7								2.27		0.72	0	5	12	7	12	n.	J. H. Hancock.
Henderson	Rusk	500	2								1.58		0.78	0	4	18	3	10		M. Kangerga.
Hewitt	McLennan	664	16								5.26	+ 1.91	2.45	0	7					I. H. Earle.
Hico	Hamilton										0.89		0.30	0	6	16	8	7	n.	John A. Eakins.
Hillsboro	Hill	628	8	70.4		99	5†	30	22	40	0.36		0.18	0	2					W. G. Escott.
Hondo	Medina	901	12	69.8		97	3†	38	22	35	5.12	+ 2.87	2.55	0	6	15	4	12	se.	H. E. Haass.
Houston	Harris	138	21	71.2	+ 1.3	92	4	43	22	26	4.72	+ 1.29	2.35	0	9	16	7	8	n.	U. S. Weather Bureau.

TABLE 1.—*Climatological data for October, 1911. 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.**																				
Huntsville	Walker	400	27	67.8	− 0.5	96	5	38	22	33	1.78	− 1.33	0.42	0	5	19	0	12	ne.	W. Y. Barr.
Jayton	Kent		1																	Wichita Valley Ry. Co.
Jewett	Leon	496	7	68.0		101	3	36	22	39	2.97		1.04	0	4	20	4	7	n.	Earle Adkisson.
Junction	Kimble	1,645	10	65.2		96	4†	30	23	45	2.05	+ 0.50	1.15	0	4	15	4	12	n.	Judge John S. Durst.
Kaufman	Kaufman	448	12	67.9	+ 0.6	97	3†	35	22	34	2.39		1.05	0	4	21	5	5	n.	B. J. Hubbard.
Kerrville	Kerr	1,650	15	67.2	+ 1.8	95	4	30	22†	45	0.95	− 1.58	0.42	0	4	12	12	7	n.	Robert E. Horne.
Knickerbocker	Tom Green	2,050	7	65.7		98	6	28	22	43	2.14		1.37	0	5	18	5	8	ne.	Jos. Tweedy.
Kopperl	Bosque	576	14								0.10	− 3.49	0.10	0	1	13	3	15	n.	T. A. Johnson.
Lagrange	Fayette	276	1								3.42		1.60	0	5	19	0	12	se.	August Hermes.
Lamesa	Dawson	2,500	1								0.43		0.28	T.	2					S. D. Austin.
Lampasas	Lampasas	1,026	19	67.0	+ 0.5	99	3	33	23	46	1.52	− 1.31	0.60	0	7	23	2	6	n.	Mrs. K. I. Webber.
La Parra	Cameron	38	9								6.70	+ 4.33	6.70	0	1					Jno. G. Kenedy.
Laureles Ranch	Nueces	20	11																	Matt Cody.
Liberty	Liberty	38	7	70.4		94	1†	36	23	37	2.82		0.65	0	8	21	3	7	n.	Mrs. Fannie Sneed.
Llano	Llano	1,040	20	68.4	− 0.2	97	3†	37	22	39	2.38	+ 0.26	1.22	0	7	18	9	4	e.	E. W. Torrence.
Llano Grande	Hidalgo	86	3	73.6		98	4	33	23	50	0.30		0.30	0	1	18	10	3	se.	M. D. Wardlow.
Long Lake	Anderson	229	6								2.53		1.09	0	7	14	3	14	n.	Geo. W. Ellis.
Longview	Gregg	336	25	68.2	+ 2.0	96	3†	38	22†	37	1.60	− 1.42	1.04	0	5	18	2	11	se.	C. A. Propst.
Lubbock	Lubbock										1.08		0.41	4.1	5	22	4	5	sw.	A. L. Paschall.
Lufkin	Angelina	325	4	68.0		96	4	35	23	40	3.10		2.63	0	3	22	0	9	n.	T. A. King.
Luling	Caldwell	418	22	70.0	− 0.3	96	3†	40	23	32	1.79	− 0.66	0.46	0	9	11	7	13	n.	John Carter.
McGregor	McLennan	713	1								3.23		1.10	0	6	21	2	8	n.	W. H. Whitley.
Marathon	Brewster	4,043	1	59.8		89	3	24	22	36	T.		T.	0	0	10	11	10	s.	Rev. A. P. Willis.
Marble Falls	Burnet	771	3								3.90		1.20	0	7	11	5	15	n.	R. H. Cochran.
Marfa	Presidio		3								0.00		0.00	0	0					R. K. Colquitt.
Marshall	Harrison	375	2	67.8		97	4	35	22	40	1.24		0.81	0	2	5	19	7	se.	Lee Scott.
Matagorda	Matagorda	12	1								5.15		3.00	0	4	24	7	0	s.	W. E. McNabb.
Mexia	Limestone	537	7	66.0		99	4	35	22	36	1.66		0.75	0	7	8	7	16	n.	Miss Josephine Newman.
Midland	Midland		4	64.5		99	2	26	22	48	0.10		0.05	0	2	10	16	5	ne.	W. H. Neeb.
Mission	Hidalgo	140	1	73.8		95	1†	40	23	37	1.04		0.87	0	3	8	20	3	se.	Glenn Perryman.
Mont Belvieu	Chambers	65	1								2.91		1.63	0	5	5	10	16	n.	A. R. Shearer.
Mountain View	Pecos	2,900	1								0.07		0.04	0	3					Lucius W. Gosselin.
Mount Blanco	Crosby	2,750	22	60.7	− 0.7	94	3	28	22	46	1.72	− 0.39	0.85	0	4	15	8	8	s.	H. C. Smith.
Nacogdoches	Nacogdoches	271	12	67.1	+ 1.0	96	3†	35	23	37	1.84	− 1.57	0.77	0	3	15	7	9	n.	Miss Mary Hofmann.
New Braunfels	Comal	720	22	68.0	− 0.9	94	3	37	23	35	3.17	+ 0.81	1.15	0	7	12	12	7	ne.	J. Giesecke.
Palestine	Anderson	510	29	66.9	+ 0.7	94	3	38	22	28	3.04	− 0.56	1.64	0	8	14	8	9	ne.	U. S. Weather Bureau.
Panter	Hood	1,000	22								0.76	− 1.96	0.28	0	4					E. H. Snider.
Pearsall	Frio	629	1								0.82		0.34	0	5					Earnest De Vilbiss.
Pierce	Wharton	102	5	68.5		93	5†	33	23	44	3.46		2.50	0	4	14	6	11		R. B. Pointer.
Plainview	Hale	3,370	15	58.8	− 1.9	94	3†	25	23	50	2.47	+ 0.87	0.98	3.5	4	21	6	4	s.	J. F. Sander.
Port Arthur	Jefferson										7.75		5.25	0	3					Griffing Bros. Co.
Port Lavaca	Calhoun	20	10	75.2	+ 3.5	98	2†	40	22	40	0.59	− 3.45	0.59	0	1	11	13	7	n.	J. H. Bickford.
Post City	Garza	2,700	1								0.72		0.40	1.0	3	24	3	4	sw.	W. L. Dodd.
Putnam	Callahan	1,591									0.89		0.48	0	4	20	4	7	s.	Rev. Joseph Reisdorff.
Raymondville	Cameron										2.39		1.03	0	6	14	8	9	se.	C. H. Pease.
Ricardo	Nueces	57	2																	Lindsay Waters.
Riverside	Walker	169	7								4.42		2.78	0	5	17	0	14	n.	Mrs. C. W. Higdon.
Robert Lee	Coke	1,850	12																	H. D. Pearce.
Rockland	Tyler	136	7								2.10		0.90	0	5	11	6	14	n.	Edward Jones.
Rockport **	Aransas	12	10	71.2	− 1.8	85	7	47	22	18	0.70	− 2.77	0.33	0	3	24	0	7	se.	Mrs. G. B. Grewe.
Rossville	Atascosa	558	4	71.5		97	3	36	22	36	1.13		0.53	0	4	10	16	5	se.	W. F. M. Ross.
Runge	Karnes	308	16								1.48	− 1.12	1.48	0	1					Reiffert & Frobese.
Sabinal	Uvalde	964	7	70.8		96	3†	37	23	35	5.97		3.50	0	5	12	6	13	se.	Jas. Johnston.
Salado	Bell		1								1.62		0.70	0	3	18	1	12	s.	L. M. Crockett.
San Angelo	Tom Green	1,847	20	65.8	+ 0.1	95	2	30	21†	41	1.06	− 0.86	0.80	0	3	20	7	4	n.	Sam Crowther.
San Antonio	Bexar	701	26	70.4	+ 1.2	95	3	40	22	33	3.57	+ 2.08	2.47	0	5	13	9	9	n.	U. S. Weather Bureau.
San Augustine	San Augustine	360	2	67.6		97	4	34	23	40	2.20		0.95	0	8	16	5	10		F. A. Wilson.
San Juanito	Hidalgo		2			99	4				0.68		0.31	0	4	3	4	24	se.	J. B. McAllen.
San Marcos	Hays	588	18	68.2	0.0	94	2†	37	24	35	3.41	+ 0.42	0.81	0	7	13	0	18	n.	Miss L. C. Ford.
San Saba	San Saba	1,712	10	67.6	+ 2.0	96	3†	31	22	40	2.48	− 0.12	0.73	0	7	21	7	3	n.	Jas. Burns.
Santa Gertrudes	Nueces		11																	J. B. Wright, jr.
Sealy	Austin	201									2.86		1.41	0	8	17	3	11	n.	O. H. Albert.
Seymour	Baylor	1,320	5	65.2		98	1†	27	30	48	0.28		0.28	0	1	23	0	8		S. C. Lee.
Snyder	Scurry			62.6		97	3	27	22	43	0.37		0.27	0	3	19	5	7	s.	J. Allen Weaver.
Somerville	Burleson	251	2	71.5		97	4	38	23	40	2.62		1.26	0	5	19	5	7	s.	W. A. Dolan.
Spur	Dickens	2,300		62.0		96	3	30	22	45	1.03		0.49	0.8	7	18	8	5	n.	J. D. Reagan.
Stamford	Jones			62.4		90	1†	32	22†	36	0.25		0.25	0	1	21	7	3		T. A. Williams.
Stowell	Chambers										5.43		1.65	0	5	18	0	13	n.	Arthur Bailey.
Sutherland Springs **	Wilson		1	70.8		99	3	35	23	38	3.05		1.38	0	5	16	1	14	n.	W. A. Clark.
Taylor	Williamson	583	10	67.6	− 0.7	95	4	38	22	33	1.77	− 0.79	0.63	0	9	19	3	9	n.	U. S. Weather Bureau.
Temple	Bell	630	21	66.3	− 0.8	95	1†	37	22	29	4.32	+ 1.98	2.97	0	7	16	5	10		W. Goodrich Jones.
Theodore	Winkler		1								0.00		0.00	0	0					W. H. Gibbs.
Thurber	Erath		1								0.74		0.57	0	2					J. K. Ball.
Tilden	McMullen		5																	Wm. Kuykendall.
Tivoli	Refugio		1								2.41		1.11	0	4	9	22	0		W. H. Gisler.
Uvalde	Uvalde	937	3	74.8[1]		98	1†	37	23	40[1]	4.86		2.75	0	4	4	22	5	se.	F. M. Getzendaner.
Valentine	Jeff Davis	4,421	5	63.2		93	4	28	22	45	0.00		0.00	0	0	26	4	1	ne.	Valentine Development Co.
Valley Junction	Robertson	289	11								2.94	+ 0.07	1.30	0	4	16	0	15	ne.	T. M. Williams.
Victoria	Victoria	187	12	72.6	+ 0.1	95	2†	40	23	37	1.36	− 2.30	0.72	0	3	16	4	11	n.	C. C. Zirjacks.
Waco	McLennan	424	22	67.3	− 0.3	96	1†	38	22	31	4.49	+ 1.93	3.00	0	5	13	0	18	s.	E. H. Hall.
Waxahachie	Ellis	556	14	66.9	+ 0.7	99	4†	30	22†	51	0.76	− 1.93	0.34	0	4	18	1	12	n.	C. D. Longserre.
Weatherford	Parker	864	22	65.7	+ 0.1	95	3	35	22	33	0.78	− 1.76	0.33	0	8	17	5	9	s.	Miss J. Stickfort.
Wharton	Wharton	105	9	70.2		95	6	32	22	45	5.30		3.50	0	3	19	0	12	n.	Mrs. F. M. Hughs.
Wills Point	Van Zandt	524	6	68.4		98	6	36	22	36	5.08		2.00	0	5	21	3	7	n.	W. W. Gibbard.
Winters	Runnels																			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 October, 1911. 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																																
Cumbres	do		.30		3.08	1.26	.49															.03	T.			T.	.04	T.	1.08				6.28
Garnett	do				.74	.14																.09					.15						1.12
Hermit	do	.60	.04		T.	2.06																T.					T.	.62	.06	T.			2.38
La Veta Pass	do				.59	1.42														.29	.67	.15						.71				T.	3.83
Manassa	do	.15			1.28	.15															T.							.70	T.				2.28
Platoro	do	.61	.02		.05	3.25	.04														.09	.04					.05	.75	.01	.01	.05		4.99
Saguache	do					1.20	.10													T.	T.							.90					2.20
San Luis	do	.02			.40	1.50	.07														.05						T.	.76	.01		.39		3.20
Wagon Wheel Gap Experiment Station.	do	.17	T.		.71	1.94															T.						.25	.32		.22			3.61
New Mexico.																																	
Agricultural College	Rio Grande				.12	.08																						.10	.10				0.30
Alamogordo (near)	do				.21	.75																					T.	T.	.05	.41	.02	.02	1.46
Alamogordo	do				.24	.60																							.02	.39			1.25
Alamos Ranch	do	T.			1.10	3.48																				*	.80		.33	.10			5.81
Albuquerque	do				1.75	.09																					.08	.35	.95	.08			3.30
Ancho	do				.26	.11																					.02	.20	.23	.22			1.04
Anchor Mine	do				.08	1.07	1.04													.30	.40						*	.40	.90	.30			4.49
Artesia	Pecos																											.60	.20	.12			0.92
Aspen Grove Ranch	Rio Grande				1.73	1.48															.04						.19	.91	.16	.02			4.53
Bateman's Ranch	do	.85			1.09	1.70																.07					.10	.52	.26	T.			4.59
Berino	do		.11	.02	.05	.23																						T.	T.	.21			0.62
Bluewater	do				.31	.98																					T.		.60				1.89
Boaz	Pecos				.43																	.22						.07		.40			1.12
Capitan	do				*	.53																					.08	.12			.11		0.84
Carlsbad	do																					T.					.25				.08		0.33
Carrizozo	Rio Grande					T.	.17																				.09	.06	.30	.07			0.69
Chama	do	.45			.40	2.30	.05														T.						.95						4.15
Cloudcroft	Pecos				.09	.79																							.21	.54	.17		1.80
Corona	do					.20															T.							.08	.55				0.83
Coyote	Rio Grande				.05	.18																					.03	.31	.04	.47	.12		1.20
Cundiyo	do					.91																						.60	.40	.50	.10		2.51
Demonstration Farm.	Pecos				1.22	.10														.05	.07							.21	1.00				2.65
Duran	do				T.	T.															T.							.35	T.	.10			0.45
Escondido	Rio Grande		T.		.15	.16																					.03		.71				1.05
Espanola	do	.20				2.00	.36																					.36	.38	.28	.06		3.64
Estancia	do					.14	.26													.20					.09	.14	.17	.12	.21	.11	.10		1.54
Fort Stanton	Pecos				1.01	.33																T.						.12	.03	.55	.24		2.28
Fort Sumner	do																																
Gallinas	do																										.88				.15		1.03
Gallinas Planting Station.	do				.50	2.19	T.														T.	.05					.23	.42		.03			3.42
Glorieta Ranch	Rio Grande				.10	2.10																						.10	.11	.10			2.51
Harvey's Upper Ranch.	Pecos	T.			2.05	2.71	.32													T.	.31	T.					.11	.76	.22	.31	.07	T.	6.86
Hillsboro	Rio Grande																																
Hondo Reservoir	Pecos					T.																.40					T.	.16	T.	.28	.04		0.88
Hope	do																																
Jemez Springs	Rio Grande	.25			.62	3.20																						.55	.45	.12			5.19
Knowles	Pecos	T.	.06				T.															.06					T.	.39					0.51
Laguna	Rio Grande																																
Lagunita	Pecos																																
Lake Valley	Rio Grande				.75	.63																					.27	.09	.22				1.96
Lakewood	Pecos																																
Las Vegas	do				.55	.90															T.	.10				T.		.75	.18	.35			2.83
Liston	do																				.30							T.	*	.71			1.01
Los Lunas (near)	Rio Grande				.77	1.32																					.40		.72	.07			3.28
Magdalena	do				1.05	.12																					.32	.10	.40	.05			2.04
Mescalero	do	T.			.15	.50	T.																					.18	.05	.77	.24		1.89
Mineral Hill	Pecos				.95	.97															.25							1.60	.35				4.12
Monterey	Rio Grande				.09	.10																					T.	T.	.42	.05	.06		0.72
Mountainair	do				.36	.56																					T.	.48	.38	.22			2.00
Newman	do	T.		T.	.25	.06																											0.31
Noria	do					.08																							.22	.12			0.42
Orange	do																													.30			0.30
Orogrande	do		T.		.67	.01																					.01		.05				0.74
Oscura	do				.03	.20																						.10	.01	.49	.03		0.86
Otis	Pecos					T.																T.					T.	.30	T.	.23	.22		0.75
Otto	Rio Grande				.25	1.05															.04						.62	.52	.20	.26	.12		3.06
Pastura	Pecos				*	1.05															.15						*	.19	.03	.14			1.56
Placitas (near)	Rio Grande				.57	2.06																T.					.37	.50	.15				3.65
Plainview	Pecos				T.															*	.40						*	.89	*	.65			1.94
Red River Canyon	Rio Grande				.04	1.06	1.00													T.	.20	.10						.30	.80				3.50
Rincon	do				T.	.38																					T.	T.	T.				0.38
Rio Grande Dam	do					.64																						T.		.23			0.87
Rio Grande Industrial School.	do				.42	1.73																						.50	1.01				3.66
Rosedale	do				.15	1.00	T.																					.10	.42	.10			1.77
Roswell	Pecos					T.															.33	.11					.17	.13	.14	.22	.04		1.14
San Marcial	Rio Grande				.10	.77																						.12	.28	.04			1.31
San Rafael	do				.60	.98																					T.	T.	.34	.16			2.08
Santa Fe	do	.03			.52	1.51	T.														.01						.30	.16	.41	.19			3.13
Santa Fe Canyon	do				1.20	1.30															T.						.57	.20	.50	T.			3.77
Santa Rosa	Pecos					.92																.09					T.	.21		.28			1.50
Socorro	Rio Grande			.10	1.24	.12																					.45	.10	.28				2.29
South Fork	do				1.50	1.70														*	.22	.26					*	.40	.60	.10	.20		4.98
Stanley	do																																
Strauss	do	.08			.33																												0.41
Taft	Pecos		T.		.06																T.	.66					T.	.23	T.	.50			1.45
Tajique	Rio Grande				1.50	.33																					.33		.37				2.58
Taos	do	.10			.27	1.38	.20	.02													T.						.40	.02	.18	.52	.15		3.24
Taos Canyon	do	.15	.01		1.21	.49														.03	.11						.11	.07	.15	.46	.23		3.02
Tecolote	do				.15	.12																					.07	T.	.55				0.89
Three Rivers	do				.11	.08																					.03			.58	.07		0.87
Tijeras Canyon	do																																
Torrance	Pecos			.05	.03	.28																.02					.01	.05	.44				0.88

TABLE 2.—*Daily precipitation for October, 1911. 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.																																	
Tres Piedras	Rio Grande																																4.25
Truchas	do	.22			.49	1.20															.04	.04						.23	.62	.25	.02		3.11
Tularosa	do																																
Vaughn	Pecos				.20																.09	.18					T.	.27	T.	.10			0.84
Virsylvia	Rio Grande				1.80	.84	.01														.12						.29	.16	.14	.02			3.38
Winsors	Pecos	.18			.81	2.24																.09				.01	.03	.71	.29	.20			4.56
Texas.																																	
Abilene	Brazos						.46	.27					.39									.23						T.		.02			1.37
Albany	do					.65															.23									.10	T.		0.98
Alice ‖	Coast								.25	.18	.05				.75						T.	T.								T.	T.	.22	1.45
Alpine	Pecos							.70																									0.70
Alvin	Coast											.46	T.	T.			1.20														.93		2.59
Anahuac	do										.25	1.55	.61	.10			.70							.05							.79		4.05
Antelope	Trinity						T.															.22								.08			0.30
Aspermont	Brazos								.40																								0.40
Austin	Colorado							.05					1.33	.47	.11		.66					.18								.21	.36	.02	3.39
Ballinger ‖	do							2.10	T.								.10														T.		2.20
Barstow	Pecos						.15																										0.15
Bay City	Colorado											.40	1.85		2.24		.57				T.		.23								T.		5.29
Beaumont ‖	Neches								.77		.16	.31	2.38	.25	.13		.25	.67				T.										.81	5.73
Beeville ‖	Coast	.08							.18	.17	T.		T.	.05				.08					T.								.20	.06	0.82
Big Spring	Colorado	T.																										.23		.02			0.25
Blanco ‖	Guadalupe							.10		.12				1.08			.26						.25									.43	2.24
Boerne	San Antonio						T.	.01	.12		T.	T.	.78	.01		.02			T.			.68								T.	.35		1.97
Booth ‖	Brazos	.33	.05						.10				.52	.26	.05			.92	.24				.20									1.75	4.42
Bowie	Trinity						.07															.32								.11			0.50
Brady	Colorado																																
Brazoria	Brazos		T.	T.		T.	.05			T.	.34	.02	.32	1.28			1.12			T.		T.	.30								.40	.01	3.84
Brazos ‖	do							.72														.20									.11		1.03
Brenham ‖	do	.15							T.	T.			T.	.85	T.		.45	.06			T.		.42								.07	.89	2.89
Bridgeport ‖	Trinity	.10																					.26							T.			0.36
Brighton	Coast								.10						.30		.10					T.											0.50
Brownsville	Rio Grande	T.	.04			.06			T.								.22					.24								.02	.08		0.66
Brownwood ‖	Colorado						.15	T.	T.				T.				T.					.23									.33	.15	0.86
Cameron ‖	Brazos												.38	.45			.40														.09		1.32
Carmona	Neches							T.		T.	.03	.07	1.29	.54			.55					.30								T.	.25	T.	3.03
Claytonville	Brazos																					.41					T.	.48					0.89
Clifton	do							.17	T.				1.17				.18					.52								.07	.06		2.17
Coleman	Colorado							1.00	T.				T.	T.			1.11					.17								.19	.90		3.37
College Station	Brazos							.03				T.	1.99	.53			.16			T.		.28	.01							.06	.47	.02	3.55
Colorado	Colorado													.22														.10					0.32
Columbia	Brazos												.25	2.00			.53					.30									.42		3.50
Columbus ‖	Colorado	T.							.80	T.			.22	.62	.32		.04						.28								T.	1.46	3.74
Corpus Christi	Coast	.01		.01	T.			.03	.01	.02	T.		.03	.01	.11		.52					.04								T.	.02	.05	0.86
Corsicana	Trinity							.05	.13	T.			.05	.07	T.		.25						.37								T.		0.92
Cotulla	Nueces					.25																										.80	1.05
Crockett	Trinity							.36		T.		.05	.38	1.11			.60					.30								.02	.13		2.95
Cuero ‖	Guadalupe	.06								.05			.39	1.68	.12		.08	.02			.01		.38								.02	.67	3.48
Dallas ‖	Trinity												.06	.34			.61					.72	.30								.05		2.08
Danevang	Coast								.20													.50									1.45		2.15
Decatur	Trinity																																
Del Rio	Rio Grande							.70				T.	T.	.01					T.			.02						.02			.36		1.11
Devine	Nueces						T.	T.	T.				T.	.50	T.	T.	T.					.37									1.10		1.97
Dialville	Neches								T.	T.	T.	T.	T.	1.10			.63					.40								T.	T.		2.13
Dilley	Nueces							.25								.50							.50								.30		1.55
Dublin ‖	Brazos							T.									.12					.49									.42		1.03
Duval	Colorado							.12	T.	.06		T.	1.49	.18			.82			T.		.15								.06	.62		3.50
Eagle Pass	Rio Grande							.65					T.	6.75			T.			.18		.10						T.	T.				7.68
Eastland ‖	Brazos							1.15		T.				T.								.50									T.	T.	1.65
Edna	Lavaca				.10								.31			.58						.10					.10						1.19
El Paso	Rio Grande		.02		.32	.06																					.01	T.	T.	.02			0.43
Encinal	Nueces																																
Eola	Colorado												T.																			T.	T.
Fairland	do							.05	.01	.01		.20	.23				.20					.38									.72		1.80
Falfurrias	Coast				.06			.70	.41	.14				.30		T.	.41															1.89	3.61
Flatonia	Guadalupe	.17				T.						T.	2.15	.30			.17			T.		.15								T.	1.25	.05	4.24
Flint	Neches									.12			T.	2.35			1.19					.22									.01		3.89
Floydada	Brazos																																
Fort Clark ‖	Rio Grande							T.	T.										.24		.25									.80	.25		1.54
Fort McIntosh	do							.58	.52	.22				.75																		1.00	3.07
Fort Stockton	Pecos						T.	T.	T.																			T.	T.		T.		T.
Fort Worth	Trinity							.05					.37			.20						.24								.13			0.90
Fredericksburg	Colorado							T.				.04	T.	.46			.47					.15									.27		1.39
Gainesville	Trinity							.32						.07			1.75					.33											2.47
Galveston	Coast	T.	T.					.25	T.	T.	.65	.72	.39	.25			1.87			T.	T.	.13									1.62	.04	5.92
Gatesville	Brazos							.30				.80	.30			.20						.30									.35		2.25
Georgetown ‖	do	.07						.80	.02	.17	.03		.02	.28			.11						.17									.41	2.08
Gonzales ‖	Guadalupe													.20			.18						.41									2.30	3.09
Gorham ‖	Brazos							T.	T.	T.			*	3.00								.30											3.30
Graham	do						.13															.27								.13			0.53
Grand Falls	Pecos																																0.00
Grand Saline	Sabine						T.	.21	T.	T.				1.75			.80					.44									T.		3.20
Grapevine	Trinity							.04		.03						.52						.23								.15			0.97
Greenville ‖	Sabine	.30									T.		T.	T.			.63					.20											1.13
Hallettsville	Lavaca			T.	T.			T.	T.	T.			1.70				.16			T.		.57									1.12	.15	3.70
Hamlin	Brazos																				T.												T.
Harlingen	Coast																																0.00
Harper	Colorado							.19				1.07										.31						1.17		T.			2.74
Haskell ‖	Brazos																					.25							.02				0.27
Hebbronville	Coast							.25	.58	.07																					.90		1.80
Hempstead ‖	Brazos	T.		T.								T.		.72	T.		.55	.20	T.	T.			.20									.60	2.27
Henderson	Neches													.33			.78					.32									.15		1.58
Hewitt	Brazos							.16	T.	.15			1.61	2.45			.42			T.		.36								T.	.11		5.26
Hico	do							.13					.11	T.		.30						.20								.03	.12		0.89
Hillsboro	do																.18														.18		0.36
Hondo ‖	Nueces								.18	.04		T.	T.	2.55			T.			.10		T.	.35									1.90	5.12
Houston	Coast						T.			.02	.01	.31	.18	.32		T.	2.35			T.		.10									1.35	.08	4.72
Huntsville ‖	Trinity							T.						.40	.40		.21						.42									.35	1.78
Jayton	Brazos																																

TABLE 2.—*Daily precipitation for October, 1911. 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.																																	
Jewett ‖	Trinity								T.	T.		T.	1.04	.78		.75						.40								T.	T.		2.97
Junction	Colorado							.42	.08													.40									1.15		2.05
Kaufman	Trinity											T.	.75	.14			1.05					.45								T.			2.39
Kerrville ‖	Guadalupe													.42	.20								.18									.15	0.95
Knickerbocker	Colorado						T.	1.37	T.	.05			.30	T.			T.					.20						T.			.22		2.14
Kopperl ‖	Brazos							T.	T.				T.	T.			T.				T.											.10	0.10
Lagrange	Colorado		T.	T.				T.					1.60		T.		.26			T.		.56								.07	.93		3.42
Lamesa	do																					.28						.15					0.43
Lampasas ‖	Brazos	.11						.26						.15	.06		.06						.28									.60	1.52
La Parra	Coast						6.70																										6.70
Laureles Ranch	do																																
Liberty ‖	Trinity						T.	T.		T.	.24	.10	.55	.16	.40		T.	.65			T.		.20									.52	2.82
Llano ‖	Colorado							T.	.25	T.		T.	.10	.28	.10							.26	.17								T.	1.22	2.38
Llano Grande ‖	Rio Grande								.30														T.										0.30
Long Lake ‖	Trinity												.03	.24	.58		1.09	.10					.37								.12		2.53
Longview ‖	Sabine									.04	.09				.05		1.04						.38										1.60
Lubbock	Brazos				T.																	.41						.22	.10	.17		.18	1.08
Lufkin	Neches										T.		T.	2.63			.22														.25		3.10
Luling ‖	Guadalupe	.06								T.			.03	.46	.05		.36	.02					.25								.10	.46	1.79
McGregor	Brazos						.40						.90	1.10			.16					.55									.12		3.23
Marathon	Rio Grande																					T.									T.		T.
Marble Falls ‖	Colorado							.60		.12	T.	T.	.31	.38			.22						1.20									1.07	3.90
Marfa	Rio Grande																																0.00
Marshall	Sabine									T.	T.	T.		T.			.81					.43								T.	T.		1.24
Matagorda	Coast											.50	3.00	.55				1.10															5.15
Mexia ‖	Brazos	T.						T.	T.	.05	.16			.35	.03		.65	.10					.32								T.		1.66
Midland	Colorado																				.05							.05		T.	T.		0.10
Mission ‖	Rio Grande								.87	.06	T.												T.						.11				1.04
Mont Belvieu	Coast										T.	1.63	.20	T.								.25									.70	.13	2.91
Mountain View	Pecos	.02													.04												T.	T.	T.	T.	T.	.01	0.07
Mount Blanco	Brazos			.18																		.29						.85	.40	T.			1.72
Nacogdoches ‖	Neches									T.	T.				.77		.70						.37								T.		1.84
New Braunfels	Guadalupe								.11				1.15	.87			.35					.45							.02		.22		3.17
Palestine	Trinity							T.	T.	.01	T	.04	.25	1.50			.89					.30								.03	.02		3.04
Panter	Brazos															.28	.23													.15	.10		0.76
Pearsall	Nueces								.10				.14				.09				.34										.15		0.82
Pierce	Colorado											.12		.65			.19														2.50		3.46
Plainview	Brazos																					.48						.98		.86	T.	.15	2.47
Port Arthur	Coast										.50	5.25					2.00																7.75
Port Lavaca	do			T.					T.											T.		T.								T.	.59		0.59
Post City	Brazos																							.40				.21			.11		0.72
Putnam	do						.48							.02								.17								.22			0.89
Raymondville ‖	Coast	T.							.97	.01	T.							.15				.20	.03									1.03	2.39
Ricardo	do																																
Riverside ‖	Trinity							T.				T.		2.78	.50		.34						.50									.30	4.42
Robert Lee	Colorado																																
Rockland ‖	Neches					.30						.10		.60			.90		.20														2.10
Rockport	Coast																.33					.25									.12		0.70
Rossville	Nueces							.05						.21								.34									.53		1.13
Runge	San Antonio																														1.48		1.48
Sabinal	Nueces								.04					3.50						.28		.20									1.95		5.97
Salado	Brazos								T.				.70				.31														.61		1.62
San Angelo	Colorado						.24	.80	T.													.02						T.		T.	T.	T.	1.06
San Antonio	San Antonio								T.	T.			.16	.69			T.			.01		.24								T.	2.47		3.57
San Augustine	Neches								T.	.03	.04	.33	.12	.95			.50					.20									.03		2.20
San Juanito	Coast								.13	.18										T.		T.									.06	.31	0.68
San Marcos ‖	Guadalupe		.25											.75			.81	.05					.65								.10	.80	3.41
San Saba	Colorado							.64	.04			.01	.58	.08								.40									.73		2.48
Santa Gertrudes	Coast																																
Sealy	Brazos			T.	T.				.02	T.		.08	.36	.82			.26			T.		.27								T.	1.41	.14	2.86
Seymour	do						T.															.28						T.		T.			0.28
Snyder ‖	Colorado																					.27							.05		.05		0.37
Somerville	Brazos							T.					.67	.01			.35					.33									1.26		2.62
Spur ‖	do	.09													.06							.49	T.					T.	.17	.05	.02	.15	1.03
Stamford	do																					.25											0.25
Stowell	Coast											1.65	1.03	.04		1.10															1.61		5.43
Sutherland Springs	San Antonio							T.	T.					.72		.16				T.		.62								.17	1.38		3.05
Taylor	Brazos	T.	.04					.18	T.	T.		.01	.62	.01	T.		.43			T.		.10						T.		.07	.31		1.77
Temple ‖	do							.07		.06				2.97	.03		.65						.36									.18	4.32
Theodore	Pecos																																0.00
Thurber	Brazos							.57															.17										0.74
Tilden	Nueces																																
Tivoli	Guadalupe					.10		1.11					.40																		.80		2.41
Uvalde	Nueces							T.	T.	T.		T.	T.	2.75	T.		T.			.35		.52						T.		T.	1.24		4.86
Valentine	Rio Grande																																0.00
Valley Junction ‖	Brazos													1.30			1.09						.40	T.								.15	2.94
Victoria ‖	Guadalupe								.27								.37					.72											1.36
Waco ‖	Brazos								.25				2.10	.90			.82						.42										4.49
Waxahachie ‖	Trinity							T.					T.		.09		.28					T.	.34								.05		0.76
Weatherford ‖	do	.09						.33			.05		T.	.02			T.					.15	.04								.08	.02	0.78
Wharton ‖	Colorado												3.50	.80																		1.00	5.30
Wills Point	Sabine												.30	2.00			1.18					1.50								.10			5.08
Winters	Colorado																																

* 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 for October, 1911. 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 Springs.		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....	76	40	68	37	89	65	90	62	79	46	81	46	72	46	90	58	68	54	85	50	93	74	95	73	91	76	88	79
2....	73	41	70	34	89	61	96	65	82	41	80	48	74	55	92	58	74	51	88	50	93	73	98	73	92	77	88	80
3....	64	32	77	26	86	57	97	65	82	48	83	39	68	41	86	63	65	43	82	56	94	72	95	71	92	78	88	81
4....	60	22	67	28	83	56	90	65	75	50	61	43	61	50	88	58	60	47	72	54	93	72	92	69	91	76	86	81
5....	67	48	60	47	74	53	90	70	70	56	70	44	64	52	83	64	60	49	73	57	91	72	90	70	91	74	87	80
6....	65	28	61	34	74	45	86	62	69	49	73	41	61	38	81	57	59	40	70	51	92	65	90	69	91	77	88	80
7....	64	29	67	30	74	44	79	54	62	44	64	40	60	41	72	45	60	38	69	40	69	57	72	60	91	72	89	74
8....	65	26	65	28	71	43	76	44	61	31	65	32	58	35	72	38	59	34	70	37	62	52	68	54	82	67	74	65
9....	66	25	69	28	73	38	74	41	69	27	64	42	60	34	72	36	60	35	74	37	70	49	76	41	74	63	71	64
10....	71	27	64	31	79	48	86	45	74	31	59	43	65	38	81	39	67	38	80	40	81	53	86	54	86	64	78	65
11....	71	28	71	36	82	47	91	52	77	34	73	38	71	46	84	42	66	42	81	50	84	65	92	61	92	67	83	72
12....	67	26	70	28	83	47	92	51	78	34	72	35	70	45	85	45	66	38	84	47	84	66	94	65	92	62	85	76
13....	70	24	73	30	84	49	92	52	77	37	73	35	69	45	86	47	69	41	82	40	86	66	94	61	92	70	85	73
14....	68	23	70	30	85	42	93	54	78	32	68	35	74	46	88	42	68	41	84	40	86	63	92	61	94	66	84	72
15....	72	22	58	39	84	50	92	51	73	40	71	34	72	45	86	45	58	39	80	49	92	66	95	65	92	68	88	75
16....	62	21	61	23	71	40	94	48	64	28	68	29	64	35	69	40	56	30	70	33	73	54	79	48	92	71	83	63
17....	68	21	67	23	76	35	83	36	75	29	70	31	68	36	81	31	63	30	80	31	79	46	83	40	83	60	82	62
18....	67	22	54	23	79	37	88	35	74	32	72	33	68	38	85	34	65	31	82	48	84	51	85	53	86	51	80	60
19....	66	21	55	24	69	40	78	44	53	35	59	29	59	35	59	36	46	34	70	36	68	47	72	44	87	60	80	69
20....	68	22	50	23	76	41	79	38	64	23	58	20	63	31	63	29	38	25	53	33	63	44	68	40	84	66	80	69
21....	58	19	43	3	59	38	68	34	64	28	48	24	52	21	47	32	39	21	48	29	53	35	59	35	92	60	74	53
22....	53	13	60	13	64	30	70	26	63	22	73	30	55	25	63	26	55	24	66	23	63	32	68	27	66	49	65	47
23....	58	14	61	19	72	31	72	30	67	18	71	33	60	28	69	29	58	28	74	27	74	40	66	32	74	44	68	48
24....	60	15	68	23	78	38	83	32	71	24	68	35	65	36	78	29	60	30	74	32	72	44	78	43	81	50	74	52
25....	66	21	62	30	81	43	81	40	72	29	73	28	66	39	73	37	61	37	71	32	76	45	.....	.....	85	56	75	65
26....	60	21	60	35	80	56	76	44	68	35	65	34	63	40	69	42	59	41	66	35	77	50	86	43	84	62	76	64
27....	45	24	44	25	84	44	69	40	53	28	36	25	54	32	43	33	45	28	44	28	58	41	63	49	82	60	76	62
28....	47	23	42	30	82	42	45	38	52	27	42	25	38	32	43	33	42	27	47	28	50	39	49	47	82	60	74	59
29....	49	24	50	30	66	43	70	44	56	33	56	35	52	31	55	42	47	32	51	35	54	43	50	40	84	60	76	64
30....	51	32	51	29	67	36	64	37	55	32	57	31	54	34	59	40	48	31	61	37	66	46	67	38	86	70	78	65
31....	50	20	53	23	70	36	71	36	62	25	56	23	54	30	65	32	49	30	64	32	68	44	74	42	76	67	77	62
Mns..	62.8	24.8	61.0	27.8	76.9	44.2	81.1	46.3	68.4	33.8	65.5	34.2	62.4	38.1	73.1	41.4	57.7	35.8	70.8	39.3	75.7	53.7	79.4[a]	52.3[a]	86.0	64.6	80.0	67.1

Date.	Texas.																											
	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....	97	76	90	64	101	72	99	68	95	76	87	82	90	75	92	75	95	72	93	75	91	61	94	75	98	69	94	74
2....	96	77	91	64	104	72	98	70	92	74	87	82	92	75	92	74	95	70	92	73	92	60	93	76	96	67	94	74
3....	97	76	88	65	101	73	102	69	94	75	88	82	93	76	92	75	95	70	94	73	94	63	95	74	98	67	94	75
4....	96	77	87	67	100	79	90	69	93	75	87	82	93	76	92	76	96	70	93	75	87	58	94	75	93	67	95	75
5....	95	76	80	66	100	73	94	69	90	73	87	81	94	74	91	75	95	70	92	71	86	62	94	73	98	67	93	70
6....	97	74	76	60	102	71	92	66	93	67	87	82	94	75	91	74	92	69	93	74	82	60	94	74	94	68	94	74
7....	79	61	73	58	98	64	80	55	69	57	87	74	85	72	89	68	88	72	78	59	68	44	81	67	85	52	78	62
8....	74	60	71	54	73	56	64	55	63	54	74	64	73	63	75	61	76	56	67	53	72	37	67	59	86	51	67	55
9....	72	58	73	49	68	59	76	52	70	53	71	64	73	63	68	62	68	58	64	54	62	36	71	56	75	66	65	55
10....	81	63	81	54	84	58	88	54	79	51	77	64	84	65	79	62	76	58	79	58	82	39	85	62	92	52	83	57
11....	89	70	84	55	89	70	90	59	82	64	79	74	90	65	81	71	82	68	79	68	89	51	85	71	93	51	85	69
12....	91	69	85	56	95	75	91	63	84	69	84	73	92	73	86	71	78	68	76	71	94	54	90	70	84	44	83	70
13....	88	72	85	55	95	75	90	58	83	66	81	70	82	72	84	70	79	70	72	66	90	53	80	67	90	61	77	68
14....	88	68	86	53	91	68	91	56	86	68	79	70	82	69	83	66	88	63	82	64	90	52	86	67	94	56	82	64
15....	91	69	84	58	95	73	94	62	80	65	84	76	89	72	89	69	87	57	85	64	81	54	92	71	97	60	89	66
16....	80	57	71	51	92	61	80	47	72	57	81	65	72	61	76	61	80	60	74	56	69	44	76	61	78	40	75	58
17....	86	48	75	43	87	56	83	45	77	52	75	66	78	54	78	57	72	48	74	55	79	35	82	55	83	35	79	52
18....	64	50	80	42	89	51	86	47	82	54	76	67	80	50	82	58	72	44	78	50	90	40	84	52	80	40	82	49
19....	77	58	67	44	84	50	75	45	71	56	77	72	75	61	78	62	79	52	74	58	80	35	79	61	80	41	74	58
20....	78	54	77	45	86	58	76	39	66	52	79	71	76	58	81	64	78	58	70	55	59	29	76	56	.....	.....	70	53
21....	65	44	56	41	82	56	65	39	53	42	76	50	59	49	68	50	74	49	55	44	52	30	62	46	65	32	57	44
22....	66	34	62	35	72	45	68	24	66	36	62	49	62	43	63	43	62	37	60	38	67	26	67	40	68	54	63	38
23....	73	34	70	35	78	40	76	32	78	43	66	54	69	40	72	47	75	35	73	45	70	25	74	41	80	32	74	41
24....	74	43	79	44	82	42	87	43	73	49	70	60	73	43	75	51	76	40	72	46	75	33	74	45	77	36	73	44
25....	78	49	81	51	86	52	85	43	77	47	72	59	76	49	76	51	76	40	74	46	77	36	79	51	79	40	75	48
26....	79	58	80	50	88	56	84	43	76	48	74	60	77	48	78	52	79	43	75	48	76	40	80	52	80	42	77	46
27....	75	60	61	43	85	60	72	45	62	47	75	62	78	50	78	55	77	45	72	49	56	30	77	54	74	36	72	51
28....	66	48	62	43	83	54	62	37	56	45	72	58	77	52	75	56	70	46	66	47	38	28	74	51	48	37	68	47
29....	74	59	63	43	84	61	71	38	57	44	71	60	64	54	74	54	72	46	67	46	45	35	73	55	49	46	64	46
30....	68	61	65	42	90	70	67	44	58	49	71	63	70	60	68	63	69	56	68	55	66	33	64	59	64	27	61	55
31....	74	57	68	37	78	67	74	38	64	43	73	63	72	58	75	60	74	54	67	52	65	34	74	55	68	33	68	51
Mns..	81.5	60.0	75.8	50.8	88.5	61.8	82.3	50.8	75.8	56.5	77.7	67.7	79.5	61.1	80.0	62.4	79.8	56.3	76.1	57.7	75.1	42.5	80.5	60.4	81.5[a]	49.0[a]	77.6	57.7

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
‡ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‡‡ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.