U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

TEXAS SECTION

SEPTEMBER, 1919

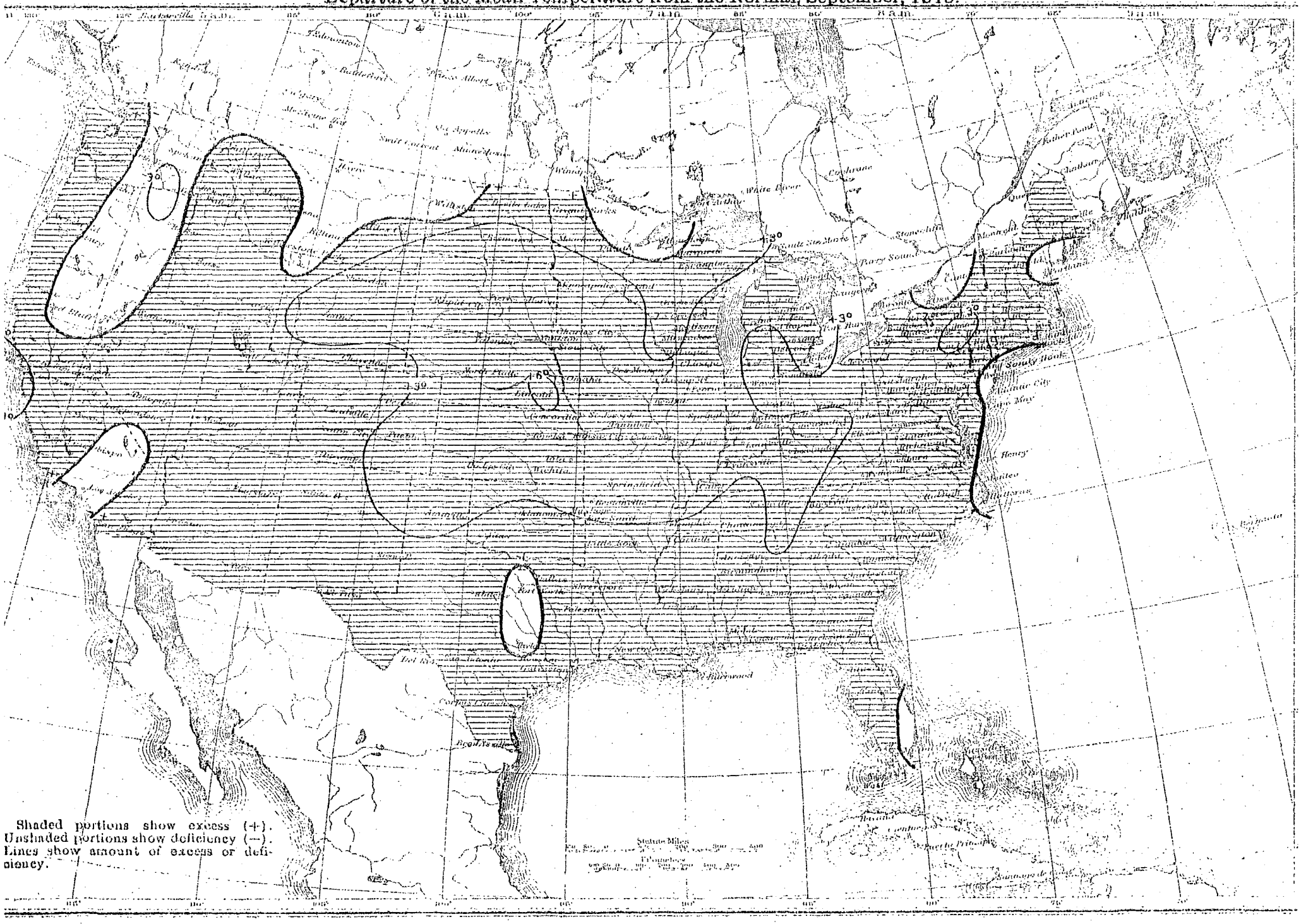
BY

B. BUNNEMEYER

METEOROLOGIST

HOUSTON, TEX.
WEATHER BUREAU OFFICE
OCTOBER 23, 1919.

Departure of the Mean Temperature from the Normal, September, 1919.



Shaded portions show excess (+). Unshaded portions show deficiency (—). Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

TEXAS SECTION.

BERNARD BUNNEMEYER, Meteorologist.

VOL. XXIV. HOUSTON, TEX., SEPTEMBER, 1919. No. 9.

GENERAL SUMMARY.

September was the fifth consecutive month with an excess of precipitation and mean temperature below the normal. Sunshine was deficient and the number of rainy days large. Mean temperatures were generally near normal along the coast and in the western third of the State, and ranged from 1.2° to 1.5° below normal elsewhere. Extremes of temperature were well within the record, and there was no frost reported. The highest temperatures of the month were recorded at most stations between the 9th and 12th, and the lowest on various dates, mostly between the 2d and 4th, 13th and 15th, and 21st and 24th.

The total precipitation for the State as a whole exceeded the normal by 75 per cent, and by divisions the average monthly amounts ranged from 2.17 inches in the eastern to 7.15 inches in the southwestern. The rainfall was mostly light prior to the 14th, when a tropical disturbance moved inland over the lower coast section, with center near and south of Corpus Christi. The storm was attended by excessive rains from the middle and lower coast westward to the Pecos Valley and thence northward to the western Panhandle. Following this storm the weather continued cloudy for a decade, with frequent heavy showers, which soaked the southwestern two-thirds of the State and caused serious floods of the Rio Grande, and Nueces, Guadalupe, and Colorado rivers.

Cotton picking and harvesting of rice, cane, feed crops, peanuts, and sweet potatoes made good progress prior to the 14th, but thereafter rains and wet soil coupled with lack of labor prevented farm work, injured matured crops in the southwestern three-fourths of the State, and delayed plowing and seeding of winter grains. Cotton continues in good condition in the western half of the State, although it was damaged somewhat by the heavy rains. In the eastern half the crop deteriorated on account of wet weather and insect damage. Open cotton was blown out in southern and southwestern counties by the tropical storm.

M. S.

PRESSURE, WIND, AND SUNSHINE.

Stations.	Barometer.					Wind.				Sunshine, per cent of possible.
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement, in miles.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	
Abilene	29.95	30.28	23	29.63	18	6,502	26	e.	15	79
Amarillo	29.96	30.33	23	29.64	20	7,730	31	nw.	21	81
Corpus Christi	29.91	30.11	2	28.65	14	10,805	72	ne.	14	61
Dallas	29.99	30.25	23	29.70	18	5,736	29	ne.	14	63
Del Rio	29.89	30.19	23	29.32	15	6,762	58	e.	15	46
El Paso	29.86	30.29	23	29.58	18	6,398	46	ne.	12	59
Fort Worth	29.96	30.26	23	29.64	18	6,228	29	n.	19	74
Galveston	29.96	30.15	2	29.58	14	8,954	53	e.	14	72
Groesbeck	29.95	30.17	23	29.71	18	6,065	29	e.	14	60
Houston	29.95	30.13	2	29.62	14	5,946	38	e.	14	64
Palestine	29.98	30.19	23	29.72	18	4,968	28	s.	20	....
Port Arthur	29.95	30.11	1	29.65	14	6,898	43	se.	14	78
San Antonio	29.94	30.15	24	29.47	14	6,005	52	se.	15	61
Taylor	29.99	30.17	24	29.69	14	5,289	30	ne.	14	51

TEMPERATURE.

The monthly mean for the State, as shown by the records of 122 stations, was 76.2°. The mean departure from the normal for 89 stations having ten or more years' record was minus 0.8°. The highest monthly mean was 82.3° at Brownsville, and the lowest, 68.8° at Romero. The highest daily temperature was 105° at La Pryor on the 9th, and the lowest, 39° at Romero on the 23d. The monthly range within the State limits was 66°, and the greatest daily range, 50° at Lieb on the 15th.

PRECIPITATION.

The average for the State, as shown by the records of 201 stations, was 4.88 inches. The mean departure from the normal for 123 stations having ten or more years' record was plus 2.09 inches. The greatest monthly amount was 13.90 inches at Boerne, and the least, 0.76 inch at Clarksville. Excessive amounts of 2.50 inches or more in 24 consecutive hours occurred at 80 stations, the greatest being 12.00 inches at George West on the 15th. The average number of days with 0.01 inch or more of precipitation was 7.

RELATIVE HUMIDITY.

Stations.	Mean. 8 a. m.	Mean. Noon *	Highest.	Date.	Lowest.	Date.	Stations.	Mean. 8 a. m.	Mean. Noon *	Highest.	Date.	Lowest.	Date.
Abilene	86	54	94	21	26	12	Galveston	79	71	93	23	43	2
Amarillo	86	53	98	16	21	1	Groesbeck	92	62	100	22	37	13
Corpus Christi	87	72	100	14	43	3	Houston	87	62	98	15	41	2
Dallas	85	59	98	26	29	13	Palestine	89	56	100	6†	42	12†
Del Rio	87	64	100	15†	23	13	Port Arthur	86	65	99	16†	45	1
El Paso	72	51	100	23	17	1	San Antonio	92	64	100	15	38	13
Fort Worth	87	64	100	26	36	13	Taylor	93	60	100	8†	41	3

*Local mean time. †Also on other dates.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature. Mean.	Temperature. Departure.	Temperature. Highest.	Temperature. Lowest.	Precipitation. Average.	Precipitation. Departure.	Number of days. With precip. 0.01 inch or more.	Number of days. Clear.	Number of days. Partly cldy.	Number of days. Cloudy.	Prevailing direction of wind.
1891	76.9	− 0.2	100	40	2.83	−0.16	10	12	12	6	se.
1892	75.9	− 1.2	101	36	1.40	−1.59	4	19	8	3	se.
1893	79.0	+ 1.9	116	41	1.59	−1.40	4	18	8	4	s.
1894	77.0	− 0.1	109	31	2.72	−0.27	7	14	10	6	s.
1895	79.5	+ 2.4	106	30	1.65	−1.34	7	11	13	6	s.
1896	76.9	− 0.2	110	33	4.57	+1.58	8	12	11	7	s.
1897	76.2	− 0.9	105	40	2.44	−0.55	5	17	7	6	se.
1898	77.7	+ 0.6	106	37	1.88	−1.11	4	17	7	6	s.
1899	76.9	− 0.2	106	40	1.61	−1.38	3	22	5	3	s.
1900	80.5	+ 3.4	105	41	5.20	+2.21	7	15	8	7	s.
1901	77.4	+ 0.3	107	40	3.38	+0.39	6	15	7	8	se.
1902	76.4	− 0.7	105	39	5.02	+2.03	7	17	7	6	s.
1903	75.2	− 1.9	103	36	2.52	−0.47	4	18	8	6	s.
1904	78.2	+ 1.1	105	40	3.99	+1.00	7	13	8	9	s.
1905	78.9	+ 1.8	104	42	2.31	−0.68	4	17	7	6	s.
1906	77.4	+ 0.3	104	39	3.47	+0.48	7	15	8	7	s.
1907	78.9	+ 1.8	110	38	1.66	−1.33	3	19	7	4	s.
1908	75.4	− 1.7	107	31	3.28	+0.29	7	15	7	8	s.
1909	77.3	+ 0.2	108	34	1.03	−1.96	2	21	6	3	s.
1910	80.6	+ 3.5	107	39	1.80	−1.19	4	17	9	4	s.
1911	82.2	+ 5.1	107	40	1.61	−1.38	4	19	8	3	s.
1912	77.8	+ 0.7	109	30	1.52	−1.47	4	18	7	5	s.
1913	73.7	− 3.4	107	33	6.63	+3.64	9	12	6	12	s.
1914	77.3	+ 0.1	105	35	1.46	−1.46	3	21	6	3	s.
1915	77.8	+ 0.5	106	41	3.17	+0.41	6	15	9	6	s.
1916	76.8	− 0.4	107	33	1.86	−1.07	4	18	9	3	s.
1917	76.8	− 0.4	105	34	1.99	−0.85	5	17	9	4	s.
1918	73.6	− 3.4	107	34	2.29	−0.56	4	19	6	5	s.
1919	76.2	− 0.8	105	39	4.88	+2.09	7	12	10	8	se.

ERRATA.

Correct August, 1919, report to read:
Brazos: Mean river stage, 2.8 feet.
Laredo: Dates of highest river stage, 1st and 4th.

Climatological data for September, 1919.

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 days. With precipit'n, 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northwestern.																				
Albany	Shackelford	1,429	25	74.2[i]	− 1.2	100	1	56	3†	34[j]	2.94	+0.27	0.85	0	10	13[c]	2[c]	0[c]	.....	T. E. Dodge.
Amarillo	Potter	3,676	27	71.2	+ 3.5	99	2	47	23	34	4.58	+2.22	2.89	0	3	14	13	3	s.	U. S. Weather Bureau.
Archer City	Archer	.....	8	.....	.....	.....	.....	.....	.....	.....	2.50	.....	2.00	0	3	.....	.....	.....	.....	Chester R. Seals.
Aspermont	Stonewall	.....	8	.....	.....	.....	.....	.....	.....	.....	1.77	.....	0.59	0	4	.....	.....	.....	.....	Bryant Link Co.
Bovina	Parmer	.....	2	.....	.....	.....	.....	.....	.....	.....	4.94	.....	2.06	0	4	.....	.....	.....	.....	A. J. Bester.
Brownfield	Terry	.....	5	71.6[a]	.....	99	3	49	14	40	4.92	.....	2.35	0	7	15[a]	7[a]	7[a]	se.	A. J. Stricklin.
Canadian	Hemphill	2,339	10	74.2	+ 1.9	101	10	45	22†	41	0.95	−1.49	0.40	0	5	.....	.....	.....	s.	R. M. Hibbard.
Childress	Childress	1,869	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agt., Ft. W. & D. C. Ry.
Chillicothe	Hardeman	1,406	13	.....	.....	.....	.....	.....	.....	.....	1.70	−0.61	0.55	0	8	.....	.....	.....	.....	C. W. Underwood.
Clarendon	Donley	2,719	12	73.0	+ 0.7	102	2	45	14	48	1.85	−1.31	0.87	0	3	25	1	4	ne.	Mrs. Fannie E. Powell.
Claude	Armstrong	3,397	16	.....	.....	.....	.....	.....	.....	.....	2.70	+0.92	.....	0	3	17	6	7	.....	Agt., Ft. W. & D. C. Ry.
Claytonville	Fisher	2,100	24	74.0	− 1.9	101	13	49	14	41	2.51	+0.23	1.06	0	7	17	3	10	s.	William Lanius.
Crosbyton	Crosby	.....	32	72.6	+ 0.7	99	2	49	14	36	3.52	+1.38	1.47	0	10	18	7	5	se.	A. B. Spencer.
Crowell	Foard	.....	2	.....	.....	.....	.....	.....	.....	.....	1.45	.....	1.00	0	2	.....	.....	.....	.....	M. L. Hughston.
Dalhart	Dallam	3,998	13	69.4	+ 1.6	96	1	40	23	40	5.12	+3.96	3.00	0	5	17	8	5	sw.	W. H. Upchurch.
Graham	Young	1,040	32	.....	.....	.....	.....	.....	.....	.....	2.60	−0.07	1.42	0	4	.....	.....	.....	.....	C. W. Johnson.
Hamlin	Jones	1,685	8	.....	.....	.....	.....	.....	.....	.....	1.99	.....	0.86	0	3	.....	.....	.....	.....	W. J. Brians.
Haskell	Haskell	1,553	25	75.5	− 1.9	97	10†	55	13	32	2.47	+0.35	1.00	0	6	13	6	11	s.	P. D. Sanders.
Jayton	Kent	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agt. Wich. Val. Ry. Co
Lamesa	Dawson	2,500	8	.....	.....	.....	.....	.....	.....	.....	6.69	.....	2.90	0	8	.....	.....	.....	.....	S. D. Austin.
Lieb	Hutchinson	.....	12	71.5	+ 1.6	102	4	41	23	50	2.88	+1.28	1.14	0	4	17	11	2	s.	Geo. W. Preall.
Lubbock	Lubbock	.....	8	71.3	.....	97	11	49	14†	35	5.70	.....	2.51	0	8	12	9	9	sw.	R. E. Karper.
Memphis	Hall	2,067	10	73.8	.....	101	30	50	13	40	1.69	−0.39	1.10	0	4	17	7	6	s.	J. A. Pressley.
Miami	Roberts	2,743	16	72.3	− 0.2	100	9	45	21†	39	2.17	+0.71	1.12	0	5	17	8	5	s.	J. T. Cantrell.
Munday	Knox	.....	6	.....	.....	.....	.....	.....	.....	.....	1.39	.....	0.40	0	7	15	7	8	sw.	A. E. Whittemore.
Ochiltree	Ochiltree	.....	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. J. Allen.
Paducah	Cottle	.....	6	.....	.....	.....	.....	.....	.....	.....	2.71	.....	1.02	0	7	6	16	8	se.	C. M. Graymm.
Panhandle	Carson	3,450	10	.....	.....	.....	.....	.....	.....	.....	1.80	.....	1.00	0	2	20	5	5	.....	J. Sid O'Keefe.
Plainview	Hale	3,370	25	72.6	+ 1.9	101	2	48	22	41	5.40	+3.01	2.76	0	6	18	8	4	e.	Texas Land & Dev. Co.
Post	Garza	2,700	7	.....	.....	.....	.....	.....	.....	.....	3.02	.....	0.96	0	6	.....	.....	.....	.....	V. A. Robinson.
Quanah	Hardeman	1,563	17	76.2	− 0.4	101	2†	52	22	37	2.60	+0.14	1.50	0	4	.....	.....	.....	s.	W. H. Crawford.
Romero	Hartley	4,056	7	68.8	.....	96	10	39	23	38	7.48	.....	3.00	0	9	11	7	12	s.	R. S. Chamberlain.
Snyder	Scurry	.....	8	71.0	.....	95	11	52	14†	30	3.20	.....	1.30	0	7	10	14	6	se.	William Wilsford.
Spur	Dickens	2,300	8	73.5	.....	100	2	53	21†	39	4.13	.....	1.05	0	9	9	5	16	se.	Sam T. Clemmons.
Stamford	Jones	.....	6	.....	.....	.....	.....	.....	.....	.....	0.90	.....	0.50	0	3	.....	.....	.....	.....	W. I. Pratt.
Tulia	Swisher	3,501	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lon Mulhall.
Vernon	Wilbarger	1,196	0	77.6[b]	.....	104	10	54	13†	34	1.92	.....	1.21	0	4	.....	.....	.....	se.	J. R. Renfro.
Wellington	Collingsworth	1,967	6	.....	.....	.....	.....	.....	.....	.....	1.90	.....	0.69	0	3	.....	.....	.....	.....	J. C. Wells.
Wichita Falls	Wichita	958	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Mytinger.
Northeastern.																				
Antelope	Jack	.....	8	.....	.....	.....	.....	.....	.....	.....	3.19	.....	1.07	0	9	15	7	8	.....	John Rudolph.
Arthur City	Lamar	590	27	.....	.....	.....	.....	.....	.....	.....	3.19	+0.33	1.90	0	6	.....	.....	.....	.....	G. H. Bennett.
Bonham	Fannin	566	15	75.0	− 2.3	99	10	52	13†	42	2.20	−0.34	1.33	0	4	10	14	6	s.	H. M. Norman.
Bowie	Montague	1,113	24	76.0	− 2.1	100	10	56	22	30	1.90	−0.87	0.90	0	7	12	2	16	s.	Craig Anderson.
Brazos	Palo Pinto	801	10	.....	.....	.....	.....	.....	.....	.....	4.51	+2.10	2.70	0	6	.....	.....	.....	.....	Robert E. Boyett.
Bridgeport	Wise	754	10	.....	.....	.....	.....	.....	.....	.....	2.32	+0.91	0.87	0	6	.....	.....	.....	.....	Hattie E. Byers.
Clarksville	Red River	442	19	75.9[b]	− 2.6	95	11	55	15	36	0.76	−2.70	0.40	0	3	20[a]	1[a]	8[a]	.....	Jno. W. O'Neill.
Dallas	Dallas	512	39	76.2	− 1.3	96	11	61	22	23	3.89	+1.02	2.55	0	7	8	10	12	se.	U. S. Weather Bureau.
Denison (near)	Grayson	550	17	.....	.....	.....	.....	.....	.....	.....	2.75	−0.15	1.00	0	3	.....	.....	.....	.....	J. B. Steele.
Denton	Denton	621	6	75.6	.....	97	10	56	13	29	3.53	.....	1.80	0	7	16	3	11	se.	C. H. McDowell.
Finley ‡‡	Bowie	257	9	.....	.....	.....	.....	.....	.....	.....	3.69	.....	2.00	0	5	.....	.....	.....	.....	Guy M. Spence.
Fort Worth	Tarrant	670	24	75.6	− 1.1	95	11	59	22	23	4.12	+1.17	3.20	0	8	8	11	11	se.	U. S. Weather Bureau.
Gainesville	Cooke	738	29	76.8	− 0.3	98	10†	59	4†	30	2.83	−0.22	1.20	0	5	.....	.....	.....	.....	B. F. Mitchell.
Greenville	Hunt	550	19	75.8	− 3.1	99	11	54	13	35	3.87	+0.66	2.20	0	7	.....	.....	.....	s.	James B. Griffen.
Henrietta	Clay	915	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. K. Brown.
Honey Grove	Fannin	660	2	76.8	.....	98	11	55	3†	32	2.09	.....	0.92	0	7	16	6	8	se.	G. W. McCleary.
Index ‡‡	Bowie	294	2	.....	.....	.....	.....	.....	.....	.....	4.14	.....	1.97	0	6	.....	.....	.....	.....	Tom Crow.
Jefferson	Marion	196	6	.....	.....	.....	.....	.....	.....	.....	1.69	.....	0.82	0	5	.....	.....	.....	.....	H. B. Weisenheimer.
Kaufman	Kaufman	448	20	77.6	− 1.5	97	11	57	13	32	6.42	+3.35	2.93	0	5	14	11	5	se.	B. J. Hubbard.
McKinney	Collin	612	17	76.2	.....	98	10†	51	11	47	1.45	−2.41	1.20	0	2	19	6	5	s.	E. P. Skelton.
Mount Pleasant	Titus	416	3	75.4	.....	99	11	52	12†	37	5.10	.....	2.22	0	6	11	12	7	se.	M. W. Cheney.
Paris	Lamar	592	31	77.2	+ 0.2	99	10	58	3†	32	2.04	−0.58	1.25	0	4	11	7	12	s.	Robt. A. Miller.
Ringo Crossing ‡‡	Hopkins	.....	9	.....	.....	.....	.....	.....	.....	.....	4.27	.....	2.00	0	5	.....	.....	.....	.....	J. F. White.
Sherman	Grayson	745	30	76.4	+ 0.4	93	10†	60	22	26	2.02	−1.45	0.68	0	4	5	16	9	s.	R. A. Gibbs.
Weatherford	Parker	864	33	73.8	− 2.6	95	11	57	13†	27	3.82	+1.40	1.52	0	8	15	1	14	e.	Miss J. Stickfort.
Wills Point	Van Zandt	524	14	76.4	− 2.2	97	9†	56	13	34	6.37	+4.14	3.04	0	6	10	14	6	s.	A. B. Swank.
Winfield (near) ‡‡	Franklin	.....	7	.....	.....	.....	.....	.....	.....	.....	3.42	.....	2.50	0	6	15	13	2	se.	J. B. Newberry.
Western.																				
Abilene	Taylor	1,738	34	75.3	+ 1.1	97	11	55	22	30	1.72	−1.42	1.09	0	11	11	9	10	s.	U. S. Weather Bureau.
Ballinger	Runnels	1,637	23	75.0	− 0.9	103	11	52	23†	34	2.45	−0.60	0.90	0	7	.....	.....	.....	s.	E. M. Eubank.
Barstow	Ward	2,573	12	76.3	+ 0.7	102	3	49	23†	42	5.65	+4.15	2.00	0	7	17	6	7	e.	J. H. Miller.
Big Spring	Howard	2,396	21	75.3[d]	− 1.1	99	2†	52	24	33[e]	8.77	+6.54	3.77	0	9	9	14	7	e.	B. Reagan.
Brownwood	Brown	1,342	27	75.0	− 1.9	96	8	56	12†	32	5.85	+2.97	2.10	0	9	10	8	12	s.	Pearl Smith.
Buena Vista	Pecos	.....	6	.....	.....	.....	.....	.....	.....	.....	4.13	.....	1.97	0	5	18	3	9	.....	W. H. Denis.
Clint	El Paso	.....	1	70.6[a]	.....	95	3†	48	24	42	3.71	.....	1.07	0	10	6	14	10	s.	M. H. Webb.
Coleman	Coleman	1,710	35	76.7	+ 1.7	102	11	55	22	34	4.12	+0.67	1.40	0	7	12	6	12	se.	Mrs. J. E. Stevens.
Colorado	Mitchell	2,066	24	77.0	+ 1.6	102	11	52	24	42	3.74	+1.48	1.35	0	9	13	11	6	s.	Ernest Keathley.
Eastland	Eastland	1,420	11	74.9	+ 0.3	101	10	54	13†	37	2.60	+0.56	0.95	0	6	8	10	12	s.	J. A. Beard.
El Paso	El Paso	3,762	40	72.6	− 0.1	92	2	48	24	27	3.30	+1.85	1.58	0	11	13	9	8	e.	U. S. Weather Bureau.
E. V. Ranch	Jeff Davis	.....	0	.....	.....	.....	.....	.....	.....	.....	3.70	.....	2.00	0	3	.....	.....	.....	.....	George W. Evans.
Fort Davis	Jeff Davis	5,000	40	.....	.....	.....	.....	.....	.....	.....	6.74	+3.75	2.44	0	9	.....	.....	.....	.....	C. H. Bird.
Fort McKavett (nr)	Menard	.....	24	74.8	+ 0.5	101	8	52	22†	41	8.46	+5.66	3.32	0	7	15	5	10	.....	Jos. T. Callan.
Fort Stockton	Pecos	3,050	40	74.1	+ 2.7	99	2†	48	24	40	10.34	+7.44	4.40	0	9	12	14	4	se.	H. H. Butz.
Garden City	Glasscock	.....	6	.....	.....	.....	.....	.....	.....	.....	3.84	.....	1.50	0	9	15	5	10	e.	C. W. Cunningham.
Grand Falls	Ward	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Wadsworth.
Junction	Kimble	2,180	8	70.4	.....	94	10	45	19	28	7.90	+5.42	3.45	0	5	12	6	12	.....	John S. Durst.
Knickerbocker	Tom Green	2,050	15	73.8	− 2.7	98	2†	47	13	40	4.80	+3.05	2.00	0	4	8	14	8	s.	Jos. Tweedy.
Lamkin	Comanche	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Henderson.
Llano	Llano	1,040	8	77.3	− 1.8	96	10†	56	13	29	4.53	+2.68	1.14	0	8	10	16	4	se.	E. W. Torrence.
Midland	Midland	.....	25	.....	.....	99	3	.....	.....	.....	5.79	+3.58	3.01	0	8	1[b]	14[b]	13[b]	se.	Cleve Baker.
O 2 Ranch ‡‡	Brewster	3,789	15	71.2	.....	93	8†	49	22†	37	2.95	.....	1.85	0	6	1	26	3	e.	H. T. Fletcher.
Paint Rock	Concho	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oscar Skaggs.
Putnam	Callahan	1,591	8	.....	.....	.....	.....	.....	.....	.....	1.31	.....	0.50	0	3	16	1	13	s.	S. M. Davis.
Rochelle	McCulloch	.....	3	74.4[f]	.....	95	11	52	14	30[f]	10.53	.....	5.12	0	8	18[d]	0[d]	8[d]	s.	G. W. Anderson.
San Angelo	Tom Green	1,847	1	72.9	− 1.7	100	11	44	22†	36	6.57	+4.05	2.26	0	7	5	15	10	se.	Sam Crowther.
Stiles	Reagan	.....	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Boyles.
Sweetwater	Nolan	2,163	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. J. Moffett.
Winters	Runnels	.....	6	.....	.....	.....	.....	.....	.....	.....	1.88	.....	0.64	0	4	.....	.....	.....	.....	Ed. P. Eason.

Climatological data for September, 1919—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 days. With precipit'n, 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Central.																				
Anderson	Grimes		5								4.32		1.59	0	6					Mrs. W. C Henderson.
Brenham	Washington	350	34	77.8	− 1.3	93	11	61	2†	23	3.74	+0.73	1.72	0	8				se.	Mrs. B. F. Sloan.
Cameron	Milam		10	80.5		99	8†	61	23†	30	5.43		2.43	0	8					T. N. Herring.
Cleburne	Johnson	758	10	76.6	+ 1.7	98	10	57	22	28	3.90		1.55	0	5	18	1	11	s.	W. S. Ownsby.
Clifton	Bosque	671	8								7.23		3.07	0	10	1	24	5	s.	R. M. Jones.
College Station	Brazos	308	29	77.5	− 1.7	93	11	60	2†	27	3.82	+0.76	1.73	0	5	7	14	9	s.	F. B. Paddock.
Copperas Cove	Coryell	1,092	4								5.08		2.27	0	5	12	5	13	s.	W. M. Wallace.
Corsicana	Navarro	445	43	75.2	− 2.2	93	11	59	13†	30	3.22	+0.50	2.70	0	3				s.	Mrs. W. A. Hammett.
Dublin	Erath	1,466	23																	Frank Hamilton.
Fairland	Burnet	1,000	27	78.4	+ 1.1	100	2	58	22†	29	5.81	+3.32	2.40	0	9	16	9	5	se.	R. L. Bush.
Gatesville	Coryell	795	15	76.6[b]	− 1.4	96	7†	58	23	35[c]	7.75	+5.41	5.50	0	4	14[f]	5[f]	5[f]	s.	A. D. Honeycut.
Georgetown	Williamson	750	24	76.4	− 1.9	98	11	57	4	30	10.58	+7.79	7.33	0	9	13	10	7	se.	R. F. Young.
Groesbeck	Limestone	461	1	75.6		92	11	58	13	26	4.70		2.53	0	9	6	15	9	se.	U. S. Weather Bureau.
Hamilton	Hamilton		3								4.35		2.90	0	5					Edwin R. Misener.
Hempstead	Waller	254	15								3.29	+0.56	2.01	0	4					G. R. Musgrove.
Hewitt	McLennan	664	24								3.25	+0.62	2.87	0	4					Dr. Hallie Earle.
Hico	Hamilton		7	75.5		96	11	55	22†	30	7.09		5.70	0	3	4	11	15	s.	J. A. Eakins.
Highbank ‡‡	Falls		3								4.65		2.00	0	7	7	10	13	se.	F. A. Brock.
Hillsboro	Hill	628	16	76.6	− 3.0	99	11	59	23	29	6.50	+3.05	2.75	0	4	10	15	5		C. H. Read.
Huntsville	Walker	400	35	76.6	− 1.1	92	11	57	2	22	2.65	−0.30	1.10	0	5				se.	W. Y. Barr.
Kopperl	Bosque	576	22								2.10	−0.78	0.90	0	3					Effie M. Johnson.
Lampasas	Lampasas	1,026	27	75.8	− 1.1	99	12	54	14	42	7.21	+4.70	2.55	0	9	16	8	6	s.	Mrs. K. I. Webber.
McGregor	McLennan										5.75		2.00	0	6	11	8	11	s.	Glenn Crain.
Madisonville	Madison		1								3.04		0.94	0	7	6	19	5	s.	H. A. Berry.
Marble Falls	Burnet	771	10								4.40	+2.15	1.30	0	7					M. M. Galloway.
Mexia	Limestone	537	15	76.3	− 2.7	94	11	58	13	29	4.18	+2.01	2.30	0	4	2	19	9	e.	Isidore Newman.
Navasota	Grimes	216	3								4.67		2.21	0	4					Clarence Moore.
Palestine	Anderson	510	37	76.3	+ 1.6	93	10	57	2	26	4.12	+0.92	3.21	0	4	10	9	11	e.	U. S. Weather Bureau.
Riverside	Walker	169	15								2.33	−0.80	1.08	0	7					Mrs. C. W. Higdon.
Salado	Bell		9								5.66		3.58	0	7	7	13	10	s.	L. M. Crockett.
Sealy	Austin	201	7	77.2		95	11	58	26	30	3.03		1.26	0	10	16	11	3	e.	Ed. Beckman.
Somerville	Burleson	251	10	76.8		93	18	50	2	37	5.95	+4.62	2.85	0	7	17	10	3	n.	Ed. Herbst.
Stephenville	Erath	1,283	1								2.62		1.34	0	4					W. H. Frey.
Taylor	Williamson	583	18	76.5	− 0.4	94	11	59	22	24	5.99	+2.95	3.01	0	9	3	14	13	se.	U. S. Weather Bureau.
Temple	Bell	630	33	76.8	− 1.1	94	11	57	23	28	4.04	+1.46	3.51	0	6				s.	W. Goodrich Jones.
Thurber	Erath		7								2.37		1.18	0	3	13	8	9		H. M. Brown.
Trinidad	Henderson	317	3								2.74		2.00	0	2					Mrs. Lizzie McDonald.
Valley Junction	Robertson	289	19								3.70	+0.90	0.80	0	8					Frank Summerlin.
Waco	McLennan	424	38	78.4	− 0.4	94	11	61	22	23	3.22	+0.20	2.08	0	4	9	10	11	s.	A. E. Howell.
Waxahachie	Ellis	556	22	72.3[d]	− 5.6	96	12	59	23†	28	5.35	+2.56	2.75	0	3	16	0	14	s.	W. A. Ownby.
Willis	Montgomery		0								4.58		1.90	0	6					E. A. Watson.
Eastern.																				
Bon Wier	Newton	58	0								2.28		1.10	0	6					F. W. Donaldson.
Dialville	Cherokee	575	15	76.7	− 1.7	96	9†	52	2	33	3.15	+0.12	2.55	0	2					T. J. Hicks.
Flint	Smith	483	9	76.4		95	11	57	2	29	1.54		1.20	0	3	13	10	7	e.	F. C. C. Carter.
Henderson	Rusk	500	10								1.36	−1.24	0.60	0	4	14	7	9		M. Kangerga.
Longview	Gregg	336	33	72.2	− 5.5	97	11	46	13	39	2.19	−0.76	0.60	0	6				se.	C. A. Propst.
Lufkin	Angelina	325	12	79.2	+ 0.3	95	2†	56	2†	39	2.85	−0.10	1.10	0	6	8	6	16	n.	T. A. King.
Marshall	Harrison	375	18	75.6[b]	− 1.8	95	11	54	2†	35	2.13	−1.03	1.64	0	4	2[a]	23[a]	4[a]	ne.	Lee Scott.
Nacogdoches	Nacogdoches	271	20	78.4	+ 1.9	98	9	53	2	33	2.42	−0.93	1.03	0	6	20	7	3	e.	Mary Hofmann.
Rockland	Tyler	136	15								0.80	−2.81	0.25	0	4					Mack Dunkin.
Troup	Smith	467	6	76.2		95	11	56	2	27	2.96		2.00	0	5	8	14	8	se.	W. S. Hotchkiss.
Woodville	Tyler		2																	S. W. Baker.
Southwestern.																				
Austin	Travis	593	63	77.9	− 0.2	96	11	60	23	24	4.41	+0.80	1.89	0	12	4	20	6	se.	Fred Morris.
Big Wells	Dimmitt		3								8.48		6.25	0	5					J. B. Strait.
Blanco	Blanco	1,350	23	77.4[a]	+ 0.1	94	9†	58	23	28[b]	7.02	+4.02	2.70	0	9	14[b]	7[b]	7[b]	s.	R. C. Crist.
Boerne	Kendall	1,412	27	71.0	− 5.3	99	2	52	23	37	13.90	+11.07	4.00	0	11	14	9	7	s.	F. W. Schweppe.
Columbus	Colorado	206	15								3.57	+0.30	2.17	0	9					Mrs. Sophie Bridge.
Cuero	De Witt	177	29	80.4	+ 0.3	99	11	59	3	29	2.85	−1.00	1.09	0	10	13	0	17	s.	H. R. Frobese.
Del Rio	Valverde	952	13	77.2	− 2.0	97	11	57	24	23	9.74	+7.25	5.45	0	9	9	14	7	se.	U. S. Weather Bureau.
Devine	Medina	653	6																	M. A. Keller.
Dilley	Frio	569	9	79.8		99	11	60	4	32	5.43		4.02	0	6					M. H. Breininger.
Eagle Pass	Maverick	800	42	79.2	− 2.9	97	11	58	24	28	7.29	+4.21	2.93	0	9	3	21	6	se.	Charles Tarver.
Encinal	La Salle	558	19	80.4		102	1†	58	25	39	11.65	+9.21	8.25	0	6	8	12	10	e.	J. C. Guerrero.
Falfurrias	Brooks		12	80.6	− 1.2	100	12	58	3	34	6.80	+4.26	4.10	0	6	20	5	5	se.	W. A. Gardner.
Flatonia	Fayette	465	12	78.8	− 1.2	100	2	59	3	34	3.52	+0.45	1.42	0	9	21	2	7	s.	F. W. Laux.
Floresville	Wilson	393	3								4.86		2.50	0	4					S. V. Houston.
Fort Clark ‡‡	Kinney	1,050	48	75.0	− 3.7	95	11†	50	23†	30	5.42	+2.51	3.50	0	8	13	5	12	se.	Post Surgeon.
Fort McIntosh ‡‡	Webb	460	51			98	1				10.07	+7.38	5.00	0	5	18	7	5	se.	Do.
Fowlerton	La Salle		4																	G. W. Warnock.
George West	Live Oak		3								13.70		12.00	0	4					F. H. Knipling.
Gonzales	Gonzales	299	14								4.03	+2.26	2.01	0	10					H. L. Richter.
Hallettsville	Lavaca	235	27	79.8	− 0.2	93	12	63	3	22	5.87	+3.17	1.40	0	11	15	5	10	s.	French Simpson.
Hebbronville	Jim Hogg		12								11.20	+8.30	8.50	0	5					Henry Edds.
Hill's Ranch ‡‡	Travis	475	3	76.6		95	11	58	25	28	3.12		1.11	0	11					Dorothy M. Hill.
Hondo	Medina	901	24	78.8	− 1.2	99	11	60	4	31	7.39	+4.39	4.95	0	12	21	3	6	se.	H. E. Haass.
Jourdanton	Atascosa		3																	C. S. Young.
Kerrville	Kerr	1,650	23	73.8	− 2.4	93	10†	54	4†	30	10.49	+7.96	3.15	0	13	10	13	7	se.	W. Davis Horne.
Lagrange	Fayette	276	10								4.55	+1.63	1.59	0	14	8	5	17	e.	August Hermes.
La Pryor	Zavalla		3	77.2		105	9	55	23†	37	6.16		3.40	0	8	13	10	7	se.	W. H. Withington.
Laredo	Webb	421	8								10.15		4.80	0	7					Mary E. Gilmore.
Luling	Caldwell	418	30	78.3	− 1.1	93	11	60	25	25	4.13	+1.27	1.20	0	15	12	9	9	se.	John Carter.
Montell	Uvalde		6								9.05		6.20	0	8	8	9	13	se.	A. G. Beecroft.
New Braunfels	Comal	720	30	77.2	− 1.2	94	1	60	23†	24	5.54	+2.86	2.14	0	9	6	18	6	ne.	J. Giesecke.
Pearsall	Frio	629	12								8.21	+5.97	6.56	0	7					Earnest DeVilbiss.
Riogrande	Starr	230	42								3.00	−0.18	1.20	0	5					Mrs. D. N. Garza.
Rossville	Atascosa	558	12	77.6	− 2.2	95	8	59	4	27	13.14	+11.11	9.09	0	10	22	2	6	se.	W. F. M. Ross.
Runge	Karnes	308	34								9.87	+6.70	6.80	0	4					Reiffert & Frobese.
Sabinal	Uvalde	964	15	78.4	− 2.7	97	11	58	24	31	5.55	+1.88	4.10	0	9	1	24	5	se.	H. W. Reily.
San Antonio	Bexar	701	34	77.8	+ 0.7	94	1	61	23	24	7.61	+4.67	4.32	0	13	6	14	10	se.	U. S. Weather Bureau.
San Marcos	Hays	588	26					56	24†		4.56	+2.25	2.40	0	8	5	10	15	s.	D. C. Johnson.
Smithville	Bastrop	332	2								5.89		2.79	0	11	20	7	3		M. E. Maney.
Uvalde	Uvalde	937	23	78.6	+ 0.3	100	11	56	24	33	7.68	+5.34	5.70	0	7	12	10	8	se.	Joseph G. McBride.
Whitsett	Live Oak		4								5.56		5.56	0	1	26	2	2	s.	S. F. Weatherly.
Coast.																				
Alice	Jim Wells	209	8	80.2		98	1	59	3	31	13.02		10.50	0	9	18	10	2	se.	R. M. Boerum.
Alvin	Brazoria	49	20																	W. R. McDaniel.

Climatological data for September, 1919—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 days. With precipit'n, 0.01 inch or more	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Coast—Cont'd.																				
Anahuac	Chambers	23	10								7.43	+2.90	3.35	0	9					Anahuac Canal Co.
Angleton	Brazoria		6	78.4		93	11	59	2	25	3.62		1.77	0	10	10	13	7	se.	E. B. Reynolds.
Austwell	Refugio		8								4.40		3.20	0	3					W. H. Gisler.
Beaumont	Jefferson	29	25	80.3	− 0.3	95	11	64	2†	24	3.48	+0.25	2.00	0	5	10	7	13	s.	John Bender.
Beeville	Bee	225	23	79.2	− 1.6	97	1†	55	3	35	11.75	+8.48	8.20	0	13	6	11	13	e.	Geo. E. Faupel.
Brazoria	Brazoria	25	30	79.1	+ 0.9	93	11†	62	2	23	5.03	−0.36	1.76	0	10	21	6	3	n.	Mrs. M. A. Stevens.
Brighton	Nueces	12	26											0						G. H. Ritter.
Brownsville	Cameron	38	47	82.3	+ 1.9	100	12	64	3	30	7.69	+1.89	4.61	0	11				se.	U. S. Weather Bureau.
Corpus Christi	Nueces	20	47	80.2	+ 1.2	94	11	68	23	21	5.81	+1.81	3.33	0	13	8	14	8	se.	Do.
Danevang	Wharton	145	32	78.8	− 0.7	93	11†	59	3	25	4.90	+0.94	2.60	0	6	25	3	2	se.	H. P. Hermansen.
Edna	Jackson	71	10								4.04	+0.86	2.15	0	5					E. L. Faires.
Galveston	Galveston	69	48	80.0	+ 0.6	91	10	68	4	14	5.29	−0.12	1.85	0	7	15	11	4	se.	U. S. Weather Bureau.
Goliad	Goliad	164	1								6.05		3.32	0	11					W. B. Campbell.
Harlingen	Cameron	37	4	81.0		100	12	61	3	30	5.40		2.04	0	5	23	5	2	se.	F. H. Brown.
Hitchcock	Galveston	20	2	77.4		88	12	63	2	18	3.75		1.19	0	7	18	9	3	se.	Alfred Henckel.
Houston	Harris	138	29	79.0	+ 0.2	93	11	64	2	20	8.68	+4.52	6.15	0	9	8	17	5	se.	U. S. Weather Bureau.
La Parra†‡	Willacy	88	17								7.65	+4.06	3.50	0	8					John G. Kenedy.
Laureles Ranch ‡‡	Kleberg		16																	Matt Cody.
Liberty	Liberty	38	15	79.0[b]	− 0.1	95	9†	60	25	27	4.39	+0.71	1.49	0	7	11	15	4	ne.	Mrs. Fannie Sneed.
Matagorda	Matagorda	12	9								6.73		6.02	0	4	17	11	2	s.	W. E. McNabb.
Mathis	San Patricio		2								10.81		8.00	0	6	6	18	6	s.	S. M. Dobie.
Mercedes	Hidalgo	68	4	82.2[c]		100	12	63	3	32	5.06		2.00	0	7	13	7	10	se.	Rio Grande L. & I. Co.
Mission	Hidalgo	140	5																	T. M. Melden.
Orange	Orange		11								5.92	+3.38	2.52	0	7					E. W. Anderson.
Pierce	Wharton	102	13	75.8	− 2.0	93	11†	57	3	28	2.78	−1.23	1.84	0	8	9	18	3	s.	R. B. Poinier.
Port Arthur	Jefferson	34	6	78.4		92	11	62	2	20	3.98		2.14	0	8	14	9	7	e.	U. S. Weather Bureau.
Port Lavaca	Calhoun	20	15																	J. H. Bickford.
Raymondville	Cameron		7								8.20		4.50	0	7					C. H. Pease.
Ricardo	Kleberg	57	9	78.9		96	10	65	5†	29	11.51		8.85	0	8	14	4	12	se.	Ernest A. Ford.
Rosenberg	Fort Bend	108	4																	W. J. Meininger.
Santa Gertrudes‡‡	Kleberg		16																	J. B. Wright, Jr.
Sugarland	Fort Bend	79	18	78.6[j]	− 0.5	95	11†	62	2†	26[j]	6.56	+2.77	3.50	0	9	13[b]	2[b]	7[b]	e.	Paul C. Rudat.
Victoria	Victoria	187	24	78.6	− 2.1	94	11	61	4	27	5.61	+1.92	4.50	0	4					C. C. Zirjacks.
Woodsboro	Refugio		3								8.27		4.53	0	6					W. E. Branch.
For the State				76.2	− 0.8	105	9	39	23	50	4.88	+2.09	12.00	0	7	12	10	8	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

†Also on other dates. ‡‡Received too late to be included in means and summaries. **Temperature data are from observed readings of the dry bulb; means are computed from observed readings. ‡‡ Post-office address stated at end of "daily precipitation" table. T. Precipitation is less than 0.01 inch rain or melted snow.

Daily precipitation for September, 1919.

Stations.	Watersheds.	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.
Northwestern.																																	
Albany‖	Brazos															.60	.35			.50	.23	.85	.08	.05	.03	.20	T.		.05				2.94
Amarillo ***	Canadian										T.	T.				1.33	1.89	1.36													T.		4.58
Archer City	Red																		2.00	.42	.08												2.50
Aspermont‖	Brazos															.59	.22				.53				.43								1.77
Bovina	do															1.18	1.60	2.06							.10								4.94
Brownfield	Colorado												.06			.65	2.35	.10		.50				.86	.40								4.92
Canadian ‖	Canadian																.03	.40	.33	.18	.01												0.95
Childress‖	Red																																
Chillicothe‖	do															.06			.22	.14	.38	.16				.55	.06			.13			1.70
Clarendon‖	do																.38	.87	.60														1.85
Claude	do															(*)	(*)	2.70															2.70
Claytonville	Brazos															.34	.68	T.		.07	1.06	.19		.10		.07							2.51
Crosbyton	do									.03		.35	.12			.20	1.47	.18		.11	.18				.53	.35					T.		3.52
Crowell	Red																			.45	1.00												1.45
Dalhart ‖	Canadian															.65	3.00	.19	1.15	.13													5.12
Graham	Brazos															.52		.33			1.42				.33								2.60
Hamlin	do																.78				.86					.35							1.99
Haskell ‖	do																.75	.07			.20	1.00				.27	.18						2.47
Jayton	Brazos																																
Lamesa	do											.20				2.90	.50			.94			.20	.42	.30			1.23					6.69
Lieb	Canadian															.08	.71	1.14		.95													2.88
Lubbock	Brazos											.14	.19			.09	1.89	2.51			.05	T.	T.		.52	.31					T.		5.70
Memphis ‖	Red														.14		.30	1.10							.15								1.69
Miami	Canadian														T.	.08	.38	.25	1.12	.34													2.17
Munday	Brazos											.02				.05	.07			.27	.28				.30	.40							1.39
Ochiltree	Canadian																																
Paducah	do											T.				.46	1.02	.18		.23	.16				.60	.06							2.71
Panhandle	do															.80	1.00	T.															1.80
Plainview	Brazos															.36	2.76	1.70	.22						.23	.13							5.40
Post ‖	do												.50				.96	.55	.31						.30	.40							3.02
Quanah ‖	Red												.30			T.				1.50	.20				.50				T.				2.60
Romero	Canadian													.03	.07	3.00	1.85	1.40	.17	.91	.03	.02	T.										7.48
Snyder ‖	Colorado																1.10	.20			.15	1.30		.20	.10	.15							3.20
Spur ‖	Brazos												.55				1.05	.20	.73		.55	.15			.05	.80	.05						4.13
Stamford	Brazos																.50					T.			.30	.10	T.						0.90
Tulia	Red																																
Vernon	do																	1.21		.22			.24	.25						T.			1.92
Wellington	do																.66	.55		.69													1.90
Wichita Falls	do																																

Daily precipitation for September, 1919—Continued.

Stations.	Watersheds.	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.
Northeastern.																																	
Antelope	Trinity	.49														.04		.28	1.07	T.	.09	.06	T.		.24	.86	.06		T.				3.19
Arthur City ‖	Red																				.15		1.90	.49		.10	.45	.10					3.19
Bonham ‖	do									T.										T.	T.		1.33			.10	.57	.20					2.20
Bowie	Trinity	.59														.02	T.	T.		.29	.04	.02				.90	.04						1.90
Brazos ‖	Brazos																.35			.42	2.70	.20	.72	.12									4.51
Bridgeport ‖	Trinity																			.25	.68	.09	T.	.25	.18	.87							2.32
Clarksville	Red							T.														T.	.31	T.		.40	.05	T.					0.76
Dallas ***	Trinity	T.													.07	T.		.02		.91	T.	1.99	.56	T.		.30	.04						3.89
Denison (near) ‖	Red																			1.00			1.00				.75						2.75
Denton	Trinity	.10														.02				1.80	.29	T.	.48			.80	.04						3.53
Finley ‖ ‡‡	Red								.40												.72	.17	2.00	.40									3.69
Fort Worth ***	Trinity	.07						T.							T.	.01		.01		3.20	.02	.38	.31		T.	.12	T.						4.12
Gainesville	do																			.63	.05	.20	1.20			.75							2.83
Greenville ‖	Sabine							.15	T.										.25	.65	T.	2.20	.15	T.	T.	.39	.08	T.					3.87
Henrietta ‖	Red																																
Honey Grove	do							.09												.03		.22	.92	.01	T.	.53	.29						2.09
Index ‖ ‡‡	do																				14	1.97	1.51	.21			.24	.07					4.14
Jefferson ‖	do								.82													.12	.55	.13				.07					1.69
Kaufman	Trinity							T.		T.		T.			T.					T.	2.22	.75	2.93			.15	.37						6.42
McKinney	do																					1.20				T.	.25						1.45
Mount Pleasant	Red																				1.95	.23	2.22	.45			.18	.07					5.10
Paris ‖	do								T.											T.		T.	1.25	.15		T.	.48	.16		T			2.04
Ringo Crossing ‖ ‡‡	do																				1.72		2.00		.10		.35	.10					4.27
Sherman ‖	do																T.			.58	T.	T.	.68	T.		T.	.65	.11					2.02
Weatherford ‖	Trinity																.70		.28	1.52	.36	.03	.73	.06			.14						3.82
Wills Point	Sabine																			.31	.62	2.09	3.04			.13	.18						6.37
Winfield (near) ‡‡	Red														T.					.25	.20	T.	2.50	.15	.22	T.	.10						3.42
Western.																																	
Abilene ***	Brazos														.01	.09	.02			.63	.51	.34	.06	.03	.01	.01			.01				1.72
Ballinger ‖	Colorado															.90	.35	T.	T.		.10	.50	.25	.25	.10	T.							2.45
Barstow	Pecos															.85	2.60	.15					.30	.70	.95	.10							5.65
Big Spring	Colorado												.18			3.77	3.10	.05		T.	1.06	.08	T.	.28	.17	.08			T.				8.77
Brownwood ‖	do																.58	.10	.10	T.	2.10	.42	2.00	.30	.15					.10			5.85
Buena Vista	Pecos												.26			1.18	1.97					.43			.29								4.13
Clint	Rio Grande				.02			.10	.15				.70			.30			.30					.47	1.07	.10			.50				3.71
Coleman	Colorado								T.						T.	1.25	.20	T.		.20	.80	.10	1.40		.17	T.			T.				4.12
Colorado	do								T.							.34	.69			1.03	1.35		.02	.13	.11	.04			.03				3.74
Eastland ‖	Brazos																.40			.25	.20	.35	.95	.45	T.	T.	T.						2.60
El Paso ***	Rio Grande				T.			.60	.01		T.		.25			.17	.02						.14	1.06	.94	.01				.01	.09		3.30
E. V. Ranch	do																		1.40		2.00								.30				3.70
Fort Davis	Pecos								.65			.21				2.44			.23		.21	.71		1.25		.12		.92					6.74
Fort McKavett (nr)	Colorado															3.32	.18				.22	.61	3.23	.50	.40								8.46
Fort Stockton	Pecos			.15						.22			.95		T.	1.30	2.20	.31					.70	.11	T.		T.	4.40					10.34
Garden City	Colorado													.03	T.	1.50	.62			1.31	T.	.02		.25		.01	.05	.05					3.84
Grand Falls	Pecos																																
Junction	Colorado													3.25	.75			.25	.20		3.45												7.90
Knickerbocker	do															2.00	.30				1.00		1.50										4.80
Lamkin	Brazos																																
Llano ‖	Colorado				T.											1.00	.62	T.	.06		.03	.56	.62	1.14	.50								4.53
Midland ‖	Colorado															.19	3.01	.29			1.35			.31	.31	.14			.19				5.79
O 2 Ranch ‡‡	Rio Grande									.50			T.		.10	T.				.10		1.85	.20	T.				.20					2.95
Paint Rock	Colorado																																
Putnam	Brazos															.31					.50			.50									1.31
Rochelle	Colorado														1.65	.51	.11			2.00	.32	.62	5.12	.20									10.53
San Angelo ‖	do									T.			.05			2.26	1.47	T.	T.			1.03	.62	1.10	T.	.04			T.				6.57
Stiles	do																																
Sweetwater	Brazos																																
Winters	Colorado																.60	.17			.47		.64										1.88
Central.																																	
Anderson	Brazos						.85	.20							1.59	.88					.76		.04										4.32
Brenham ‖	do							T.	.03			T.			.09	1.72	.37	.09				.75		.66	.03			T.					3.74
Cameron ‖	do					.76									1.18		.21		.20	.08		.40	2.43	.17									5.43
Cleburne	do															.55				.67	.89	.24	1.55										3.90
Clifton	do								.18							.14				1.59	1.79	.36	3.07	.04	.04	.01	.01	T.					7.23
College Station	do							.05						1.73					.43				1.39	.22									3.82
Copperas Cove	do															1.35	.15				1.09	2.27	T.	.22									5.08
Corsicana ‖	Trinity																				.19	T.	2.70	.33									3.22
Dublin ‖	Brazos																																
Fairland	Colorado						T.	T.				T.	T.		.15	2.15	.25	.12		.03		.44	2.40	.24	.03			T.					5.81
Gatesville	Brazos															.15					.70	1.40	5.50										7.75
Georgetown ‖	do							T.								2.28	.34		.09	.02	.02	T.	6.60	1.33	.45				.05				10.58
Groesbeck ***	do					.53	T.	.02	.01						T.	.69		T.	.77		.07	.07	2.53	.01	T.	T.	T.			T.			4.70
Hamilton ‖	do															.50			.10		.45		2.90	.40									4.35
Hempstead ‖	do			T.	T.	.93		T.								2.01	.25	T.			.10			T.									3.29
Hewitt	Brazos						T.	T.	T.						.06	T.		T.	T.			.30	2.87	T.			.02						3.25
Hico	do															.42		T.		T.	.97		5.70										7.09
Highbank ‡‡	do														.15			.25	.25		.90	2.00	1.00	.10									4.65
Hillsboro ‖	do																.60				2.70	T.	2.75	.45									6.50
Huntsville ‖	Trinity						T.	.30	T.		T.	T.			T.	.40	.50					1.10	T.	T.	.35								2.65
Kopperl ‖	Brazos								T.												.90		.70	.50	T.		T.	T.					2.10
Lampasas ‖	do					.02			.07					2.55	.70					1.15	1.12	1.24	.28			.08		T.					7.21
McGregor	do														.20	.40				1.55		.30	3.00	.30									5.75
Madisonville	Trinity				.50		.02				.09				T.	.79					.94		.15	.55									3.04
Marble Falls ‖	Colorado															1.30	.23	.08	T.		.15	T.	1.04	1.25	.35								4.40
Mexia ‖	Brazos								T.								.47	T.		.56	T.		2.30	.85	T.								4.18
Navasota ‖	do									.53						2.21	.68					1.25											4.67
Palestine ***	Trinity					T.	.03	.01							T.	T.		T.			.87		3.21	T.		T.	T.						4.12
Riverside ‖	do										.10				.20		.30	.15				1.08		.30	.20								2.33
Salado	Brazos						.25								1.45	.12	.02	.13						3.55	.11			T.					5.66
Sealy	do						.02	.18			.20			.05	1.26	.38	.04	.38		T.	.08		.44										3.03
Somerville ‖	do						.35									2.85	.50		.25	.25		.85		.90									5.95
Stephenville ‖	do															.28				1.34		.88	.12										2.62
Taylor ***	do				T.			T.	.16		T.				.53	2.48	.44	.04	T.		.02	.03	1.41	.88			T.	T.		T.			5.99
Temple ‖	do					.05										.39	.03						2.02	1.50	.05		T.	T.					4.04
Thurber	do											1.18	.17			1.02	T.									T.	T.	T.					2.37
Trinidad ‖	Trinity																						2.00	.74									2.74
Valley Junction ‖	Brazos											.10				.55	.20			.35		.70	.80	.80	.20								3.70
Waco ‖	do									T.						T.		T.	.20	T.	T.	.10	2.08	.84	T.			T.					3.22
Waxahachie ‖	Trinity																				2.25		2.75	.35									5.95
Willis	San Jacinto						.50							.20	.70	1.90				1.03				.25									4.58

Daily precipitation for September, 1919—Continued.

Stations.	Watersheds.	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.
Eastern.																																	
Bon Wier	Sabine					1.10		.66						.06	.02						.08		.36										2.28
Dialville	Neches																				.60		2.55										3.15
Flint	do							T.				.18									.16		1.20			T.							1.54
Henderson	do					.05					T.				.21			T.			.60		.50										1.36
Longview	Sabine							.37				.60			.13						.31			.48	.30								2.19
Lufkin	Neches					.60	.20														1.10	.25		.40	.30								2.85
Marshall	Sabine						.33		T.												.15		1.64				.01						2.13
Nacogdoches	Neches					.07	.15	T.	T.						T.						1.03	.15	.36	.66			T.						2.42
Rockland	do									.25	.15										.25			.15									0.80
Troup	do					.02		T.							T.						.87	T.	2.00	.04		T.	.03						2.96
Woodville	do																																
Southwestern.																																	
Austin***	Colorado					.22			.06						.74	1.02	.10	.01	.04	.02	.01	.07	1.89	.23			T.	T.					4.41
Big Wells	Nueces													.75		6.25	.25							.60	.63								8.48
Blanco	Guadalupe															2.70	.60	.16	.17		1.14	.01	1.20	.83	.21								7.02
Boerne	San Antonio		T.			T.									4.00	1.38	.14	.83	.10	.11	1.74	2.09	3.31	.17				.03					13.90
Columbus	Colorado					T.			.05	.23		.14			T.	.33	.22	.02		T.		.10		2.17				.31					3.57
Cuero	Guadalupe					.05			T.						.10	1.02		.07	.02	.38		.60	.49	.08	T.			.04					2.85
Del Rio ***	Rio Grande								T.				.03		.51	2.56		.03			.08	.06	5.25	1.20	.02								9.74
Devine	Nueces																																
Dilley	do													.11		4.02	T.	.30				.09	.30	.61									5.43
Eagle Pass	Rio Grande								.19			.07	1.45		.64	2.93	.57						.13	.87	.44								7.29
Encinal	Nueces													.60		8.25	.55	T.						1.55	.65	.05							11.65
Falfurrias	Coast		T.							.20	T.		T.			4.10	T.	.35				T.	1.47	.63	.05	T.							6.80
Flatonia	Guadalupe				.37			T.	.10		.26				.43	1.42	.30				.33		.19					.12					3.52
Floresville	San Antonio				T.										2.00	2.50	.11	.25	T.	T.	T.	T	T.	T.						T.			4.86
Fort Clark ‡‡	Rio Grande													.20		3.50	.01					.20	.01	.70	.70	.10							5.42
Fort McIntosh ‡‡	do													T.		2.20		5.00						1.99	.78	.10							10.07
Fowlerton	Nueces																																
George West	do	.65														(‡)						.30		.75									13.70
Gonzales	Guadalupe					T.		.03		.48		.16				2.01	.12	T.	.19	T.	T.	.27	.43	.29	.05			T.	T.				4.03
Hallettsville	Lavaca				.10		.47	.05	.33						1.10	.90	.10		.77		1.40		.40					.25					5.87
Hebbronville	Coast														8.50		.37					.40	1.17	.76									11.20
Hill's Ranch ‡‡	Colorado							T.	T.	.13	T.					1.11	.09	.06	.25		.09	.03	.93	.27	.06		.10		T.		T.		3.12
Hondo	Nueces	.25	.05						.06	.12		.15				4.95	.10	.40			T.	.14		.30	.61			.26	T.				7.39
Jourdanton	do																																
Kerrville	Guadalupe									.13						3.15	2.00	.35	.33	.16	.50	.65	1.70	.84	.61				.03	.04			10.49
Lagrange	Colorado				T.	.03		.17	.07		.01				1.59	1.07	.36	.05	.04	.31	.35	T.	.37	.06				.07					4.55
La Pryor	Nueces												.36		3.40	.60	.11	.15				.10	.54	.90									6.16
Laredo	Rio Grande													.87	4.80	.17	.06						3.30		.85	.10							10.15
Luling	Guadalupe					.60	.16	.12		.66		.10	.34	.06		1.20	.04		.25	.14		.04	.06	.30	.06								4.13
Montell	Nueces											.19			.03	6.20	.11				T	.65	.63	1.02	.22								9.05
New Braunfels	Guadalupe				.07				.54						.60	2.14		1.49		.10		.14	.20	.26									5.54
Pearsall	Nueces											.15	.19		6.56	.35					.25	.41	.30										8.21
Riogrande	Rio Grande										.50		.80			.30								1.20	.20								3.00
Rossville	Nueces								T.			.08	.18		1.50	9.09	T	.08		.03	.09	.04	1.83	.22			T.						13.14
Runge	San Antonio														6.80			.51			.76		1.80										9.87
Sabinal	Nueces					.04									.20	4.10	.06	.14	.16				.18	.64	.03								5.55
San Antonio ***	San Antonio				.02				.07			.06	T		2.06	2.50	.17	.70		.11	.31		1.51	.07				.02			.01		7.61
San Marcos	Guadalupe								.35			T			2.40	.07	T.		.48	.13	.42		.66	.05		T.							4.56
Smithville	Colorado					.32	.11		.16						.81	2.79	.25		.11	.26	.30	.67	.11										5.89
Uvalde	Nueces									.07		T.	.08			5.70	T.				.05	T.	.50	.85	.43								7.68
Whitsett	do														5.56																		5.56
Coast.																																	
Alice	Coast		.83							.20		.18		.35	T.	(§)		.32	.45				.04	.15									13.02
Alvin	do																																
Anahuac	do					.09	.72	.24	1.41	.08					3.35	1.10		.34			.10												7.43
Angleton	do				.22	.22	.91		T.	.06	T.		.07		1.77	.04	.14	.17			T			.02									3.62
Austwell	do			1.00											3.20									.20									4.40
Beaumont	Neches						.51	2.00							.52		.41	.04															3.48
Beeville	Coast					.03				.75				.30	.69	8.20	.04	.07	.92	.36	.02	.24	.11	02									11.75
Brazoria	Brazos			.02	T.	.40	.80	.05		1.76			.22		1.65	.12	.44			.05	.02												5.03
Brighton	Coast																																
Brownsville	Rio Grande								.76	.03					4.61	.17	.37	.80	.02					.33	.40	.06		T.	.14				7.69
Corpus Christi ***	Coast	.04						.01	.19				.50		3.26	.41	.30	.76	.11	T.		.11	.01				.10	.01					5.81
Danevang	do					1.55		.30		.15						2.60	.05				.25												4.90
Edna	Lavaca				.90				.26		.25	.48			2.15																		4.04
Galveston ***	Coast				.73	1.44	.42	T.	T.	T.				T.	1.81	.52	.02			T.	T.	T.	T.	.35									5.29
Goliad	San Antonio				.10				.28		.03				3.32	1.41		.03	.63			.15	.02	.01			.07						6.05
Harlingen	Coast								.27						2.04	.44		1.40						1.25									5.40
Hitchcock	do					.49	1.15			T.					1.19	.53	.30	T.					.02	.07									3.75
Houston ***	do				T.	T.	.02	.93	.43	.03				T.	3.74	3.23				T.	.07		.19	T.				.04					8.68
La Parra ‡‡	do												.20	.75	3.50	.65	.50	.45	.80					.80									7.65
Laureles Ranch ‡‡	do																																
Liberty	Trinity					.52	.26	.04	T.	T.	T.				T.	1.49	.64	T.			T.	.27		1.17									4.39
Matagorda	Coast					.20							.50		6.02														.01				6.73
Mathis	Nueces	.26							.23						8.00		.83	.64										.85					10.81
Mercedes	Coast									.15	.77				2.00		.89	.50						.68	.07								5.06
Mission	do																																
Orange	Sabine					.60	2.52			.35				.35	.25									.65						1.20			5.92
Pierce	Colorado					T.	.05	.03		T.				.26	1.84	.09	.07				.36		.08										2.78
Port Arthur ***	Coast				T.	.08	2.14	.13	.36				.04	.15	.05	1.03								T.									3.98
Port Lavaca	do																																
Raymondville	do									.27						4.50		.50						.97	.82	1.10			.04				8.20
Ricardo	do							T.			T.		.45	1.10	8.85	.05	.09	.25			.66		.06	T.									11.51
Rosenberg	Brazos																																
Santa Gertrudes ‡‡	Coast																																
Sugarland	Brazos	T.			.55	.60					.11			.70		3.50	.40	.03			.52			.15									6.56
Victoria	do				.25				.26						4.50				.60														5.61
Woodsboro	Coast	.12							.25	.72					4.53							1.26					1.39						8.27

(‡)12.00. (§)10.50. (For reference notes, see top of page 108.)

Daily temperatures for September, 1919.

Stations.		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	Mean
Northwestern.																																	
Albany §§	Maximum	100	93	89	93	93	93	96	98	....	....	....	....	....	....	....	....	....	88	82	90	65	70	68	67	84	88	85	80	91	....	....	85.6[j]
	Minimum	67	66	56	59	61	62	66	69	68	....	....	....	....	....	....	....	....	....	68	67	58	56	58	59	58	63	63	66	65	62	....	62.7[i]
Amarillo	Maximum	97	99	95	86	88	90	89	90	90	95	89	88	90	86	69	65	78	84	82	81	66	63	69	68	79	82	86	83	82	81	....	83.0
	Minimum	63	66	63	58	57	60	61	64	67	65	69	62	57	53	62	61	63	60	59	63	50	48	47	51	49	50	61	62	65	65	....	59.4
Brownfield	Maximum	94	95	99	86	86	88	89	89	90	92	96	89	90	89	83	71	83	89	81	76	64	65	58	67	75	83	83	80	84	....	....	83.2[a]
	Minimum	60	62	65	60	55	55	58	63	67	61	64	65	66	49	66	64	66	64	60	61	50	53	51	62	52	64	62	66	63	....	....	60.1[a]
Canadian §§	Maximum	96	99	91	89	91	93	91	95	96	101	95	91	91	89	80	75	76	87	97	86	71	72	75	78	81	86	95	91	89	88	....	87.8
	Minimum	64	65	64	57	58	60	62	66	68	67	67	62	65	48	67	64	65	61	62	64	67	45	45	48	50	50	58	66	66	65	....	60.5
Clarendon	Maximum	100	102	94	89	93	94	94	96	96	101	97	92	90	93	76	73	76	88	89	86	84	69	73	75	80	85	90	92	88	83	....	87.9
	Minimum	58	60	61	57	58	58	60	62	66	68	67	64	52	45	50	66	67	60	60	62	51	49	48	47	53	52	53	64	65	64	....	58.2
Claytonville	Maximum	96	93	92	90	91	90	92	94	95	96	97	98	101	90	89	81	85	90	87	75	71	70	60	63	65	80	81	83	81	84	....	85.3
	Minimum	61	62	64	61	60	70	72	68	69	68	69	67	66	49	54	68	69	70	70	65	63	50	52	54	55	61	61	60	60	61	....	62.6
Crosbyton	Maximum	97	99	96	90	87	89	89	91	91	97	98	89	88	85	80	73	81	88	85	83	79	66	69	63	69	79	82	83	81	79	....	84.2
	Minimum	65	67	67	59	54	59	59	62	70	65	64	66	53	49	66	65	67	65	65	63	64	50	52	52	53	54	63	64	66	63	....	61.0
Dalhart §§	Maximum	96	93	93	87	91	92	91	91	90	93	92	87	89	84	71	65	75	82	78	82	62	65	68	74	77	85	85	85	82	84	....	83.0
	Minimum	57	56	57	57	54	57	61	64	61	62	65	62	59	50	56	60	61	54	56	57	51	47	40	44	43	45	49	61	63	66	....	55.8
Haskell	Maximum	96	96	90	85	89	90	90	95	95	97	97	92	87	89	80	80	86	94	93	73	85	68	71	61	65	82	86	85	87	88	....	85.7
	Minimum	69	69	68	59	61	64	65	68	69	69	71	69	55	61	75	70	69	70	67	68	65	57	57	59	57	63	62	71	68	64	....	65.3
Lubbock	Maximum	94	96	96	86	86	87	89	90	90	95	97	89	87	84	76	70	80	88	88	81	71	68	67	55	69	77	83	82	80	81	....	82.7
	Minimum	63	66	65	59	52	56	56	61	67	63	65	64	52	49	66	64	65	64	65	61	63	49	52	52	53	52	62	62	66	63	....	59.9
Miami	Maximum	98	95	92	89	85	90	92	95	100	89	93	93	89	78	72	76	83	88	72	65	70	73	75	76	77	80	82	87	91	92	....	84.6
	Minimum	65	65	66	64	57	60	63	65	64	66	58	59	50	65	66	66	60	60	61	55	45	45	51	57	55	58	60	62	65	66	....	60.0
Plainview	Maximum	94	101	97	95	88	90	92	91	93	96	98	91	93	90	86	68	81	93	90	87	84	64	69	63	76	81	87	83	84	82	....	86.2
	Minimum	62	60	65	62	55	56	58	60	66	64	64	63	53	54	51	61	63	64	58	62	59	48	50	53	53	53	64	61	62	64	....	58.9
Quanah	Maximum	97	101	92	94	91	93	93	95	97	101	97	92	90	90	85	84	85	95	91	85	80	68	75	65	74	83	81	85	87	85	....	87.7
	Minimum	69	68	66	57	62	63	65	67	71	71	72	69	55	55	70	69	69	70	68	69	68	52	55	55	57	63	64	71	69	65	....	64.8
Snyder	Maximum	91	90	89	86	83	84	83	85	86	90	95	92	82	80	78	80	81	85	78	77	85	67	64	65	65	72	77	81	82	83	....	81.2
	Minimum	65	66	63	64	63	59	59	58	63	60	66	67	59	52	52	62	67	67	67	70	64	62	55	55	52	54	56	58	60	62	....	60.9
Tulia	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Northeastern.																																	
Bonham §§	Maximum	85	85	85	90	91	90	90	93	94	99	94	90	85	94	88	92	93	89	89	89	88	69	74	74	65	67	83	84	85	90	....	86.1
	Minimum	68	60	55	55	59	62	64	67	70	69	69	70	52	52	66	70	68	68	69	69	70	69	58	59	59	60	61	67	69	67	....	64.0
Bowie	Maximum	81	86	84	88	89	90	89	92	95	100	99	90	90	90	86	92	90	97	94	81	85	73	83	75	65	71	87	86	90	92	....	86.7
	Minimum	65	63	64	60	62	64	67	67	70	70	71	71	60	60	71	72	69	72	66	68	69	56	58	59	57	60	64	70	67	66	....	65.3
Clarksville	Maximum	89	81	83	84	84	85	....	89	92	93	95	93	92	89	91	90	91	93	89	91	....	84	73	73	72	73	82	86	86	84	....	86.0[b]
	Minimum	62	59	58	60	61	64	....	63	61	73	75	70	70	70	55	68	68	73	74	77	....	67	60	72	61	60	65	....	....	....	....	65.8[c]
Dallas	Maximum	82	82	83	85	87	85	85	88	91	96	96	89	86	86	87	90	84	87	88	86	85	64	73	71	66	69	86	84	86	86	....	83.9
	Minimum	71	65	63	67	68	66	69	70	72	73	75	73	63	71	75	74	71	72	70	72	67	61	61	63	61	62	67	72	70	69	....	68.4
Denton	Maximum	82	83	84	86	87	88	87	90	93	97	96	89	85	89	89	90	88	91	87	83	85	75	74	75	62	69	85	83	86	87	....	84.8
	Minimum	70	62	60	60	61	64	67	67	69	69	69	73	56	67	74	72	69	72	73	69	75	59	60	61	62	61	64	72	67	65	....	66.3
Fort Worth	Maximum	82	83	82	83	86	84	86	89	91	93	95	89	84	83	86	88	84	88	87	86	84	65	73	75	67	73	85	84	86	86	....	83.6
	Minimum	70	65	64	64	66	65	69	70	72	73	74	71	61	68	74	72	71	72	69	70	64	59	60	62	61	62	67	72	70	69	....	67.5
Gainesville	Maximum	87	87	86	89	88	89	88	91	95	98	98	92	89	92	91	92	89	92	91	84	83	82	75	77	67	69	86	85	87	90	....	87.0
	Minimum	70	63	62	59	62	66	68	69	70	70	69	71	59	67	74	73	70	73	70	69	74	59	59	60	59	60	65	70	68	67	....	66.5
Greenville §§	Maximum	83	85	84	89	89	88	88	92	95	95	99	90	89	91	90	94	92	89	89	87	84	62	75	77	65	68	77	85	88	89	....	85.6
	Minimum	70	62	59	59	63	65	65	70	71	70	73	73	54	69	69	71	70	70	70	73	73	60	59	59	61	59	61	66	69	66	....	66.0
Henrietta	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Kaufman	Maximum	90	85	85	88	89	88	89	93	95	96	97	91	89	86	92	93	92	90	92	89	86	78	75	76	71	70	86	85	88	86	....	87.1
	Minimum	69	62	60	64	63	65	69	75	73	73	73	72	57	72	74	72	72	73	73	72	75	60	60	62	62	62	67	72	70	68	....	68.0
McKinney	Maximum	90	90	89	89	91	90	90	91	97	98	98	96	98	92	95	94	94	93	95	95	87	80	78	78	87	85	86	87	90	90	....	90.4
	Minimum	58	59	60	58	62	63	61	63	68	71	51	57	58	75	70	68	66	65	67	68	58	58	59	58	60	59	58	58	62	60	....	61.9
Mount Pleasant.	Maximum	89	83	84	90	88	89	86	91	95	96	99	89	89	90	92	92	91	88	90	87	84	76	76	77	69	67	86	86	88	89	....	86.5
	Minimum	54	55	61	65	63	68	68	69	69	69	70	52	52	70	65	67	71	74	71	72	65	56	58	59	60	63	66	66	65	67	....	64.3
Paris	Maximum	86	86	88	93	92	91	90	94	96	99	98	92	90	95	90	98	95	91	92	90	87	74	75	75	65	67	85	86	88	92	....	88.0
	Minimum	65	60	58	64	67	65	68	70	71	72	72	72	58	69	75	70	69	74	73	70	74	60	59	59	58	60	59	70	68	67	....	66.5
Sherman	Maximum	86	86	82	85	86	85	84	87	90	93	93	93	87	88	88	88	82	88	88	85	85	83	73	73	73	70	83	84	85	....	....	84.5
	Minimum	71	64	63	65	68	67	69	71	71	75	75	73	61	68	75	72	72	74	70	71	76	60	61	62	61	62	65	72	71	67	....	68.4
Weatherford [illegible]	Maximum	86	85	83	85	86	85	80	85	92	94	95	89	84	84	81	86	84	88	76	73	73	70	71	74	68	75	84	82	85	85	....	82.3
	Minimum	72	64	64	59	61	62	66	70	70	69	68	70	57	58	69	71	71	71	67	69	70	57	57	60	61	61	63	70	68	67	....	65.4
Wills Point	Maximum	84	80	85	87	88	86	84	83	97	97	97	91	90	85	90	92	93	91	92	89	84	76	74	77	68	69	86	86	87	88	....	85.9
	Minimum	69	68	64	63	65	66	63	64	71	71	70	71	56	70	71	70	70	72	73	72	69	60	59	60	62	62	66	72	70	67	....	66.9
Western.																																	
Abilene	Maximum	93	96	92	85	88	89	89	92	93	95	97	92	86	87	81	85	86	90	87	75	87	65	66	67	67	81	84	84	84	86	....	85.0
	Minimum	68	71	68	59	62	64	66	70	72	70	68	66	56	59	71	71	70	73	70	67	65	55	57	56	58	64	67	71	68	67	....	65.6
Ballinger §§	Maximum	91	89	90	88	91	92	95	95	96	102	103	92	88	82	82	84	82	82	82	90	80	78	74	78	80	84	80	82	84	84	....	86.7
	Minimum	68	72	68	69	60	61	64	64	68	68	69	72	61	58	69	68	64	66	69	64	60	53	52	54	52	56	58	54	66	68	....	63.2
Barstow	Maximum	100	98	102	99	93	95	96	101	99	101	101	101	93	99	88	85	92	98	92	98	95	99	60	60	75	87	87	92	90	92	....	92.3
	Minimum	59	60	60	65	58	59	64	70	67	67	63	67	59	51	65	45	65	64	64	62	64	55	49	49	53	55	61	60	65	64	....	60.3
Big Spring	Maximum	95	99	99	90	90	94	95	95	97	98	98	93	88	80	79	75	85	93	90	84	90	69	61	59	68	81	88	84	83	85	....	86.2
	Minimum	....	....	....	....	....	....	....	69	70	70	68	69	55	56	65	67	68	67	71	70	68	61	54	52	55	59	65	68	69	66	....	64.4[g]
Brownwood §§	Maximum	92	94	93	93	90	92	90	96	95	92	93	87	85	80	87	90	90	90	91	83	78	65	68	80	78	85	87	85	85	85	....	86.6
	Minimum	70	67	66	64	60	66	64	65	66	66	65	56	56	70	68	69	70	65	60	67	66	57	56	56	59	60	66	63	56	65	....	63.4
Coleman	Maximum	96	95	93	90	92	92	92	93	99	98	102	97	92	88	79	86	86	90	90	79	84	83	77	70	70	83	87	82	86	89	....	88.0
	Minimum	66	67	67	56	59	61	62	67	69	68	68	70	58	63	70	70	79	70	71	66	66	55	66	60	60	66	64	68	66	64	....	65.4
Colorado	Maximum	98	101	99	97	90	92	93	93	95	99	102	97	95	90	85	79	85	90	89	81	88	77	67	63	66	79	84	83	84	85	....	87.5
	Minimum	80	67	69	67	79	62	66	78	74	66	66	71	53	61	69	69	69	71	70	66	66	57	54	52	56	61	64	70	69	75	....	66.6
Eastland §§	Maximum	97	98	91	89	92	91	91	95	99	101	103	93	88	88	80	87	87	90	94	80	87	62	68	66	70	82	86	86	89	89	....	87.2
	Minimum	66	67	67	55	55	59	62	61	67	67	72	67	54	54	63	68	68	69	69	68	66	56	54	55	57	59	62	66	64	61	....	62.6
El Paso	Maximum	92	92	91	90	87	90	83	82	84	89	92	79	84	82	73	78	88	91	86	84	90	67	54	53	67	79	82	83	89	85	....	82.2
	Minimum	71	66	65	66	67	68	67	66	65	70	67	62	64	62	64	62	65	64	67	61	63	52	48	48	53	54	63	65	68	66	....	63.0
Fort Stockton	Maximum	98	99	99	91	91	96	98	98	95	98	97	85	87	83	79	79	90	96	88	88	95	76	55	57	76	87	92	88	85	85	....	87.7
	Minimum	58	60	65	63	53	58	64	68	68	63	63	64	60	51	63	62	65	64	63	65	65	51	49	48	54	59	59	60	65	65	....	60.5
Junction	Maximum	88	86	90	78	80	80	82	84	85	94	74	70	75	76	85	86	88	80	68	65	70	72	70	70	72	75	80	82	80	80	....	78.8
	Minimum	60	66	68	58	60	68	62	68	68	74	48	48	55	60	65	68	70	68	45	58	60	58	60	58	60	62	65	70	68	66	....	62.1
Knickerbocker	Maximum	95	98	89	87	83	94	88	96	97	98	97	94	87	85	78	82	85	89	89	78	84	77	63	67	70	78	82	83	84	86	....	85.4
	Minimum	59	64	66	64	55	56	61	68	69	66	64	66	47	52	65	67	66	70	70	65	64	52	55	51	58	61	65	68	67	64	....	62.2
Llano	Maximum	95	90	88	87	88	89	92	94	93	96	96	94	90	81	83	86	86	88	89	91	87	81	82	77	80	84	86	87	86	88	....	87.8
	Minimum	69	69	67	58	60	63	67	69	69	68	68	70	56	71	69	71	76	73	75	73	71	58	57	57	61	65	70	69	67	68	....	66.8
O 2 Ranch	Maximum	91	90	90	89	86	85	90	93	93	89	91	87	82	76	83	84	89	93	91	90	78	76	58	76	76	84	87	86	86	85	....	85.1
	Minimum	58	56	57	57	53	51	53	56	63	61	60	60	52	64	63	60	62	61	60	59	52	49	49	49	52	57	60	59	61	60	....	57.3
Rochelle	Maximum	90	88	86	84	88	85	88	90	91	91	95	90	85	82	77	84	....	....	....	87	81	72	....	....	....	83	84	88	82	86	....	85.7[f]
	Minimum	64	65	66	64	66	57	59	66	67	66	65	68	56	52	67	68	....	....	....	67	67	54	....	....	....	53	64	65	66	62	....	63.1[f]
Central.																																	
Brenham	Maximum	86	84	84	84	87	83	88	92	90	90	93	92	89	85	82	85	86	88	90	85	88	85	70	80	82	87	89	88	87	88	....	86.2
	Minimum	73	61	61	61	69	69	70	72	72	75	74	76	66	74	75	74	71	72	73	76	76	66	63	61	61	66	71	70	70	66	....	69.5
Cleburne	Maximum	88	87	88	88	89	92	90	92	94	98	97	93	85	82	83	90	90	90	92	87	85	83	73	72	73	78	85	86	88	90	....	86.9
	Minimum	72	63	63	62	62	68	67	70	70	70	70	72	59	59	72	72	70	70	70	65	69	57	59	60	62	60	68	71	65	65	....	66.2
College Station §§	Maximum	87	86	85	88	90	85	87	90	92	92	93	90	87	80	81	90	89	89	90	84	87	75	70	81	82	84	88	88	89	....	....	86.2[a]
	Minimum	73	60	60	65	67	66	70	72	70	72	72	73	63	75	73	72	71	73	72	75	74	71	64	62	60	65	70	70	70	65	....	68.8
Corsicana	Maximum	80	81	81	86	85	85	84	88	89	91	93	90	89	88	86	90	87	90	89	89	87	63	70	74	75	73	85	84	85	84	....	84.0
	Minimum	71	61	61	65	66	66	66	65	71	72	72	72	59	62	62	70	71	72	73	73	72	60	59	60	60	63	64	71	70	66	....	66.5
Groesbeck.	Maximum	81	80	82	84	86	84	85	86	88	90	92	90	84	83	82	87	85	85	87	85	82	78	69	76	74	80	87	86	86	86	....	83.7
	Minimum	68	61	60	64	65	64	69	70	70	71	71	67	58	71	72	70	71	72	73	74	77	61	61	60	62	65	69	70	70	65	....	67.4

Daily temperatures for September, 1919—Continued.

Stations.		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	Mean
Central—Continued.																																	
Hico	Maximum	89	88	85	84	91	86	84	91	93	94	96	91	80	84	89	86	85	88	90	89	84	79	68	73	79	81	85	86	87	88	....	85.8
	Minimum	66	65	63	57	61	62	64	67	68	67	66	66	57	70	71	70	70	70	72	68	72	55	55	60	62	66	67	68	66	64	....	65.2
Hillsboro §§	Maximum	85	86	86	85	89	89	89	92	94	97	99	93	89	83	82	88	88	89	91	89	86	62	71	79	78	78	86	87	90	89	....	86.3
	Minimum	73	64	63	63	63	64	64	70	70	70	70	71	61	61	73	72	71	71	74	71	74	60	59	60	61	62	65	71	69	65	....	66.8
Huntsville §§	Maximum	87	82	80	86	84	83	85	89	90	89	92	89	87	83	83	87	89	88	89	88	88	83	69	78	77	85	86	87	87	86	....	85.2
	Minimum	71	57	59	66	66	67	67	72	70	72	71	71	65	65	74	71	70	71	73	74	74	77	64	61	59	63	65	71	70	64	....	68.0
Lampasas	Maximum	97	95	89	90	88	90	91	90	94	95	97	99	97	90	81	82	87	86	88	90	90	85	63	63	77	80	82	86	87	89	....	87.3
	Minimum	66	67	64	57	56	59	61	61	68	66	66	67	55	54	69	70	71	71	70	74	71	61	57	58	60	64	64	68	66	65	....	64.2
Mexia	Maximum	86	84	84	85	88	86	86	89	91	93	94	91	87	84	82	89	87	86	88	86	83	80	69	76	73	77	86	85	85	85	....	84.8
	Minimum	71	61	60	65	65	64	69	71	71	73	72	74	58	71	74	71	71	71	72	73	75	60	60	60	63	64	69	71	70	65	....	67.8
Palestine	Maximum	80	82	84	83	86	83	89	90	91	93	92	89	86	84	88	90	89	88	90	86	86	77	71	75	77	76	85	88	86	87	....	85.0
	Minimum	66	57	59	66	66	64	68	71	70	72	73	70	60	74	75	70	71	72	73	70	76	64	60	60	63	63	69	71	70	65	....	67.6
Taylor	Maximum	88	82	84	84	85	84	87	88	91	92	94	91	86	81	84	87	85	88	88	89	84	78	66	77	77	84	87	87	88	86	....	85.1
	Minimum	72	66	63	62	64	64	69	69	70	72	73	69	62	72	70	72	73	72	74	74	75	59	60	62	62	66	68	70	66	68	....	67.9
Temple	Maximum	91	85	84	85	88	87	88	90	90	92	94	91	89	84	84	88	89	88	91	91	89	83	70	70	69	75	86	87	87	86	....	85.7
	Minimum	72	65	63	65	66	65	68	71	72	73	74	74	61	71	70	71	71	71	71	73	76	62	57	61	62	65	70	63	68	63	....	68.0
Waco	Maximum	88	87	87	86	87	87	89	90	92	93	94	90	86	82	86	90	88	87	87	91	87	81	70	77	76	80	85	87	88	87	....	86.2
	Minimum	76	68	65	65	66	67	72	72	74	72	73	74	63	73	77	75	75	74	77	74	78	61	62	63	66	68	70	74	72	69	....	70.5
Waxahachie	Maximum	75	70	74	80	81	72	74	72	84	93	96	88	82	75	84	....	....	....	....	....	....	....	71	73	74	74	86	84	87	87	....	79.8[c]
	Minimum	67	61	60	60	61	61	62	62	62	68	68	70	67	67	67	70	69	69	69	71	73	60	59	59	61	61	64	69	64	64	....	64.8
Eastern.																																	
Dialville	Maximum	83	85	87	87	91	81	89	92	96	96	95	91	89	93	94	93	93	92	92	90	89	79	73	78	80	75	87	88	89	89	....	87.9
	Minimum	68	52	54	64	61	62	66	69	68	68	68	71	59	73	74	68	67	73	72	74	73	66	60	58	60	62	60	67	68	60	....	65.5
Flint	Maximum	82	84	85	83	87	86	76	91	93	94	95	89	89	83	89	88	89	90	92	90	88	80	72	77	77	72	84	87	87	87	....	85.5
	Minimum	68	57	58	66	66	64	68	71	71	71	72	72	60	73	73	71	69	72	74	75	75	64	58	60	63	62	66	69	68	63	....	67.3
Longview	Maximum	79	81	83	84	84	91	84	82	90	91	97	86	85	92	90	88	90	88	91	82	88	76	73	76	71	82	85	87	87	87	....	85.0
	Minimum	59	50	49	54	58	55	60	62	61	62	72	60	46	63	61	60	62	63	64	67	65	58	47	49	52	52	66	70	70	65	....	59.4
Lufkin	Maximum	92	95	95	95	90	90	90	90	92	93	95	95	91	90	91	90	92	92	93	94	91	90	90	89	80	80	91	90	90	88	....	90.8
	Minimum	67	56	56	56	61	62	73	76	70	73	73	76	64	76	74	70	71	73	70	74	74	60	60	60	76	60	65	70	70	60	....	67.5
Marshall	Maximum	82	82	....	86	81	85	87	88	91	94	95	89	89	....	91	90	92	89	91	90	90	82	77	79	73	69	86	88	88	88	....	86.1[b]
	Minimum	60	54	....	56	65	65	60	70	69	70	70	54	72	....	70	66	68	72	73	73	73	66	58	59	62	62	64	68	68	60	....	65.2[b]
Nacogdoches	Maximum	85	86	88	90	89	88	92	95	98	97	97	95	92	89	95	95	95	94	96	88	89	85	74	83	81	81	91	92	92	91	....	90.1
	Minimum	66	53	56	66	63	64	68	71	70	70	68	73	62	73	74	75	67	72	70	73	73	74	61	60	59	64	67	66	66	58	....	66.7
Southwestern.																																	
Austin	Maximum	92	86	85	86	87	84	90	88	91	95	96	92	89	80	85	86	84	88	89	91	83	76	65	78	81	86	89	88	88	88	....	86.2
	Minimum	73	71	64	63	65	66	70	72	74	73	74	75	65	73	71	73	73	75	75	74	75	62	60	63	62	66	70	72	70	69	....	69.6
Blanco §§	Maximum	92	90	86	86	86	88	91	91	94	93	94	92	90	85	90	89	88	87	90	91	80	76	76	78	84	88	90	88	89	....	....	87.7[a]
	Minimum	70	71	69	64	64	64	65	68	71	72	71	72	72	70	65	66	70	69	70	71	61	58	59	59	60	65	69	68	....	....	....	67.0[a]
Cuero	Maximum	98	88	88	90	90	90	95	95	97	95	99	98	94	85	88	90	90	90	93	87	92	92	73	84	89	88	90	93	93	93	....	90.9
	Minimum	73	68	59	64	64	64	70	74	70	72	71	74	67	74	73	74	74	74	78	74	73	71	64	66	64	63	72	70	70	69	....	69.8
Del Rio	Maximum	93	91	89	85	88	89	92	90	92	94	97	93	90	82	80	84	85	85	85	84	87	77	62	64	77	81	84	84	85	84	....	85.1
	Minimum	73	72	71	68	65	67	70	77	75	72	74	74	67	64	68	73	72	74	76	75	69	58	57	57	63	65	69	74	74	70	....	69.4
Eagle Pass	Maximum	96	94	92	88	87	94	92	95	95	96	97	94	87	81	83	88	93	91	91	87	93	85	64	64	81	87	88	90	90	88	....	88.4
	Minimum	72	72	70	68	67	66	71	77	74	73	73	67	67	67	67	74	74	75	75	75	76	61	59	58	64	66	71	75	74	72	....	70.0
Falfurrias	Maximum	97	98	92	94	94	98	98	92	94	94	97	100	95	90	84	88	87	92	93	95	91	93	82	79	88	92	92	90	93	83	....	91.8
	Minimum	66	70	58	61	63	64	70	75	73	71	67	71	69	68	68	73	74	74	71	75	75	75	65	67	67	69	72	72	70	69	....	69.4
Flatonia	Maximum	99	100	93	90	90	91	96	94	96	97	98	96	97	87	87	88	89	87	88	91	89	83	71	82	85	89	90	89	92	90	....	90.5
	Minimum	75	74	59	61	65	64	65	65	66	70	71	68	65	63	71	72	73	71	70	72	76	65	63	63	62	61	69	69	67	67	....	67.1
Hallettsville	Maximum	92	91	85	86	87	88	85	88	88	90	90	93	92	92	83	85	87	87	87	89	89	89	84	83	83	86	87	87	88	88	....	87.6
	Minimum	76	69	63	68	70	71	72	74	74	75	75	78	70	76	74	74	74	74	75	76	76	77	66	66	65	76	72	71	71	72	....	72.1
Hill's Ranch §§	Maximum	92	85	85	87	87	86	89	88	90	93	95	93	89	81	86	88	87	89	91	92	87	68	66	79	80	87	89	89	89	89	....	86.5
	Minimum	70	68	60	59	62	62	62	68	70	68	70	72	62	67	71	72	72	71	74	74	75	64	60	61	58	64	66	70	66	65	....	66.8
Hondo	Maximum	97	90	90	91	91	90	94	94	94	95	99	93	90	87	78	87	86	89	88	89	89	84	68	80	80	87	87	88	89	87	....	88.4
	Minimum	68	71	66	60	62	64	66	76	74	69	70	71	63	72	69	73	73	74	76	75	74	68	61	61	64	68	70	73	72	70	....	69.1
Kerrville	Maximum	92	89	86	83	84	86	89	88	87	93	93	90	85	75	74	82	83	84	87	86	86	70	60	72	79	84	82	82	85	84	....	83.3
	Minimum	63	69	64	54	56	57	59	70	70	65	64	66	56	68	67	69	69	70	71	71	70	60	55	54	62	61	64	69	68	66	....	64.2
Luling	Maximum	92	87	85	87	87	86	89	85	90	92	93	90	87	84	85	88	86	87	90	90	87	85	67	80	85	88	90	88	90	90	....	87.0
	Minimum	73	71	63	63	66	67	69	72	72	72	72	73	64	73	72	74	74	72	75	76	76	65	62	63	60	68	70	72	69	70	....	69.6
New Braunfels	Maximum	94	85	85	85	86	87	89	88	87	91	91	91	87	80	85	86	82	89	87	88	87	87	72	78	80	86	86	87	86	85	....	85.9
	Minimum	70	70	63	61	62	65	67	70	71	69	69	73	65	74	69	72	72	72	75	74	75	75	60	60	60	66	70	71	68	67	....	68.5
Rossville	Maximum	93	89	85	82	87	88	93	95	90	92	94	92	84	83	83	85	86	92	89	90	89	84	68	76	82	80	81	84	82	86	....	86.1
	Minimum	70	72	62	59	63	64	66	74	73	70	70	72	65	66	68	72	74	72	73	75	76	64	61	62	65	71	71	73	71	76	....	69.0
Sabinal	Maximum	96	93	89	87	88	93	94	94	95	94	97	94	90	88	81	85	87	87	90	90	92	88	77	76	82	88	88	89	86	88	....	88.9
	Minimum	68	71	66	67	61	62	63	75	73	69	70	72	62	69	67	62	66	73	74	74	75	63	60	58	65	66	70	73	72	70	....	67.9
San Antonio	Maximum	94	87	87	86	88	90	92	90	92	92	93	92	87	78	82	86	81	88	88	89	87	77	65	78	83	86	86	88	87	87	....	86.2
	Minimum	72	72	66	63	64	66	68	74	74	72	73	75	66	71	68	72	73	73	75	74	75	62	61	62	63	69	70	72	71	70	....	69.5
San Marcos	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	69	68	69	57	62	62	62	62	63	68	69	73	65	70	69	69	70	72	72	73	73	62	53	56	56	59	69	68	69	65	....	66.0
Uvalde	Maximum	98	98	94	90	91	93	96	96	97	98	100	97	92	80	80	87	89	90	92	92	93	80	68	71	83	89	88	90	89	89	....	89.7
	Minimum	67	71	67	62	60	62	66	76	73	68	69	70	59	65	65	72	73	73	73	74	75	65	59	56	65	64	64	73	73	69	....	67.6
Coast.																																	
Alice §§	Maximum	98	89	89	90	90	95	96	95	94	95	97	95	92	85	80	86	87	90	90	90	91	90	78	84	90	92	90	92	92	92	....	90.5
	Minimum	68	70	59	62	64	64	65	75	72	71	71	71	67	75	75	73	74	74	74	75	75	76	65	65	69	69	69	72	71	67	....	69.9
Angleton	Maximum	85	82	84	85	85	85	87	90	90	91	93	92	88	82	85	86	86	87	89	87	89	90	81	83	86	88	89	88	87	87	....	86.9
	Minimum	73	59	61	64	65	69	68	73	72	74	72	76	67	73	78	75	72	72	75	76	76	75	71	63	61	67	70	68	70	64	....	69.9
Beaumont	Maximum	92	85	86	89	85	83	89	87	93	93	95	94	90	85	86	90	90	90	91	90	91	92	89	85	88	88	89	90	90	89	....	89.1
	Minimum	70	64	67	69	70	69	70	75	74	75	75	76	69	77	75	73	74	74	75	77	77	76	71	64	64	66	69	72	74	65	....	71.5
Beeville §§	Maximum	97	90	90	90	90	93	97	89	94	93	97	95	91	77	83	86	85	89	91	88	89	90	74	82	86	89	89	89	90	90	....	89.1
	Minimum	69	68	55	64	65	67	67	74	73	72	70	71	68	68	71	74	74	75	75	74	75	75	65	65	64	64	71	70	69	68	....	69.3
Brazoria	Maximum	87	85	85	85	85	82	86	90	90	90	93	93	88	83	86	84	87	88	88	85	87	90	82	85	86	88	88	85	88	89	....	87.0
	Minimum	74	62	63	67	66	69	70	74	73	74	74	76	70	74	77	75	73	73	76	76	77	76	72	64	64	68	71	70	71	67	....	71.2
Brownsville	Maximum	96	92	92	92	94	98	96	91	94	94	97	100	96	91	88	91	84	96	96	93	94	93	88	78	88	91	91	92	94	92	....	92.4
	Minimum	72	73	64	68	66	68	76	76	74	74	70	74	74	69	70	74	74	75	77	77	77	76	72	70	67	70	74	74	72	70	....	72.2
Corpus Christi	Maximum	91	86	87	87	88	88	89	87	88	89	94	94	92	82	82	82	82	84	84	86	85	85	80	81	85	85	84	85	85	84	....	86.0
	Minimum	74	74	71	71	70	71	75	75	82	77	75	73	72	73	73	75	75	75	78	80	78	69	68	69	71	74	79	79	79	75	....	74.3
Galveston	Maximum	83	81	83	82	83	82	84	86	85	91	91	91	86	82	82	83	84	84	85	85	86	86	80	81	81	85	84	85	84	84	....	84.3
	Minimum	76	72	71	68	71	72	76	80	80	78	80	80	73	75	74	78	78	78	79	80	80	80	71	69	71	73	78	79	79	76	....	75.8
Houston	Maximum	84	84	80	84	85	84	87	89	89	91	93	92	89	81	80	85	88	88	90	87	88	90	75	82	85	85	88	89	87	88	....	86.2
	Minimum	72	64	66	67	69	71	70	75	74	77	75	78	71	75	74	74	74	73	74	76	76	70	68	64	65	68	73	74	74	69	....	71.7
Liberty	Maximum	91	85	85	85	89	84	91	90	95	95	95	93	90	82	85	88	89	89	91	88	90	91	84	84	87	88	90	89	90	90	....	88.8
	Minimum	....	....	....	....	72	69	70	....	71	72	71	74	67	76	74	72	70	69	70	73	75	75	68	61	60	65	66	63	63	64	....	69.2[e]
Mercedes	Maximum	97	96	95	96	95	99	98	95	95	96	98	100	95	....	95	92	84	91	93	93	....	93	86	81	88	90	91	....	92	91	....	93.1[e]
	Minimum	70	73	63	66	67	67	68	73	73	73	69	74	73	....	70	73	73	76	76	76	....	76	69	68	67	71	74	....	72	72	....	71.2[e]
Pierce	Maximum	87	86	79	78	75	82	85	86	87	90	93	93	85	80	85	88	86	83	88	83	87	78	75	83	84	85	88	90	88	87	....	84.6
	Minimum	70	58	57	60	62	66	72	70	68	70	68	73	66	72	72	70	68	69	70	71	72	72	65	60	58	65	66	66	67	65	....	66.9
Port Arthur	Maximum	82	82	84	84	82	81	86	84	89	91	92	91	85	83	82	85	87	85	87	86	86	87	79	81	81	82	85	86	85	84	....	84.8
	Minimum	71	62	66	72	71	69	71	75	73	75	74	76	69	77	73	75	76	78	79	78	80	75	67	63	63	68	73	76	74	65	....	72.1
Sugarland §§	Maximum	89	....	81	86	....	....	87	92	91	93	95	....	....	95	85	87	....	91	....	....	89	91	76	....	89	88	....	90	90	92	....	88.8[b]
	Minimum	72	62	....	63	69	....	....	70	71	71	71	73	....	....	68	72	72	....	71	....	....	74	68	62	....	62	62	....	70	66	....	68.4[b]
Victoria	Maximum	90	85	86	88	88	90	91	92	92	93	94	93	92	80	85	90	92	93	88	89	90	80	75	80	85	88	90	88	89	89	....	88.2
	Minimum	73	70	68	61	65	66	68	67	68	69	69	69	68	67	68	68	70	69	75	75	75	74	68	65	65	69	71	71	70	68	....	69.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents 2 days, etc.

Notes for daily precipitation tables. See pages 102, 103, and 104.

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation. *** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
|||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. ‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.
‡‡Post-office addresses of these stations are as follows: Finley, Brownstown; Index, Texarkana; Ringo Crossing, Sulphur Bluff; Winfield (near), Mount Vernon; E. V. Ranch, Valentine; O 2 Ranch, Alpine; Highbank, Eloise; Long Lake, Monington; Fort Clark, Brackettville; Fort McIntosh, Laredo; Hill's Ranch, Austin; La Parra, Sarita; Laureles Ranch and Santa Gertrudes, Kingsville.

Daily Evaporation (inches) and Wind Movement (miles) for September, 1919.

(See temperature and precipitation data in Climatological Tables, pages 101, 104, and 106.)

Stations.	Data.	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	Monthly.
Hill's Ranch†	Evaporation	.207	.214	.184	.201	.179	.269	.123	.049	.152	.079	.251	.193	.130	.374	.134	.155	.166	.218	.033	.170	.208	.164	.096	.122	.078	.102	.113	.152	.261	.057	....	4.830
	Floating pan	.081	.337	.971	.242	.267	.083	.226	.026	.103	.050	.172	.264	....	....	....	....	.064	.003	.251	(a)	(b)	....	.173	.037	(c)	.065	.076	.119	.109	....	.....	
	Wind movmt.	4	11	7	7	11	3	3	2	1	0	1	15	26	96	140	52	29	24	26	29	11	20	84	43	19	9	4	16	15	12	....	720
Laredo ‡	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Wind movmt.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....

[a],−.020; [b],−.030; [c],−.025. †Observations taken at 8 a. m. ‡Observations taken at 7 a. m.

MISCELLANEOUS PHENOMENA (WITH DATES).

Thunderstorms (number of stations reporting): 1st, 1; 4th, 6; 5th, 5; 6th, 1; 7th, 3; 8th, 1; 9th, 1; 11th, 4; 12th, 5; 14th, 1; 15th, 2; 16th, 2; 17th, 2; 18th, 1; 19th, 6; 20th, 8; 21st, 6; 22d, 4; 23d, 2; 24th, 1; 27th, 3; 30th, 1.

Halos, Solar: 3, 4, 13, 14, 16, and 20.

Fog, Dense: Palestine, 6; Flint, 6, 7, 28, 29; Houston, 9.

Hail, Light (no material damage): Fort Stockton, 27th.

OBSERVER'S REMARKS.

Haskell: September has been an excellent month for all crops. There is a good season in the ground for plowing, but very few farmers have been plowing on account of being too busy gathering crops.

Lubbock: Excessive rains and high winds during the middle part of the month caused considerable damage to feedstuff. Unfavorable weather conditions have retarded all farm work, but at present there is the best season in the ground in several years. Range conditions are good.

Denton: The first part of the month was very favorable for cotton, but heavy rains during the latter part damaged the lint considerably and delayed picking.

Colorado: Unfavorable weather has considerably damaged crops in this section, but an enormous yield is expected.

Rochelle: Cotton in this vicinity is in good condition and the stalks are so heavily loaded that they are breaking down. All maize cut and shocked spoiled, but corn has been damaged but little.

Sealy: Storm on the 14th caused considerable damage to cotton and other crops in this section.

Big Wells: Storm on the 14th and 15th caused considerable damage to cotton. Ranges are in excellent condition.

Eagle Pass: One death resulted from the tropical storm that passed over this section on the 14th and 15th.

Encinal: The tropical storm, accompanied by high winds and excessive rain, damaged about two-thirds of the cotton crop.

Falfurrias: Storm of the 14th destroyed all cotton and feed crops, and also blew down all windmills.

Flatonia: No damage resulted from the storm on the 14th.

Hondo: Unfavorable weather retarded all farm operations. Cotton is in poor condition and corn was damaged by high water. Stock are in fine condition.

Montell: There was not much damage from the recent storm, except that windmills were blown down. Communication was cut off until the 27th.

Pearsall: Storm on the 14th destroyed all open cotton.

Sabinal: The storm on the 14th was very severe in this section. About half of the windmills were blown down and crops were damaged considerably.

Uvalde: The Gulf storm was very severe in this section and did considerable damage. On the 15th a tornado passed over the northern portion of the town and destroyed several houses and killed a large number of goats.

Ricardo: The storm of the 14th caused considerable damage to crops in this section.

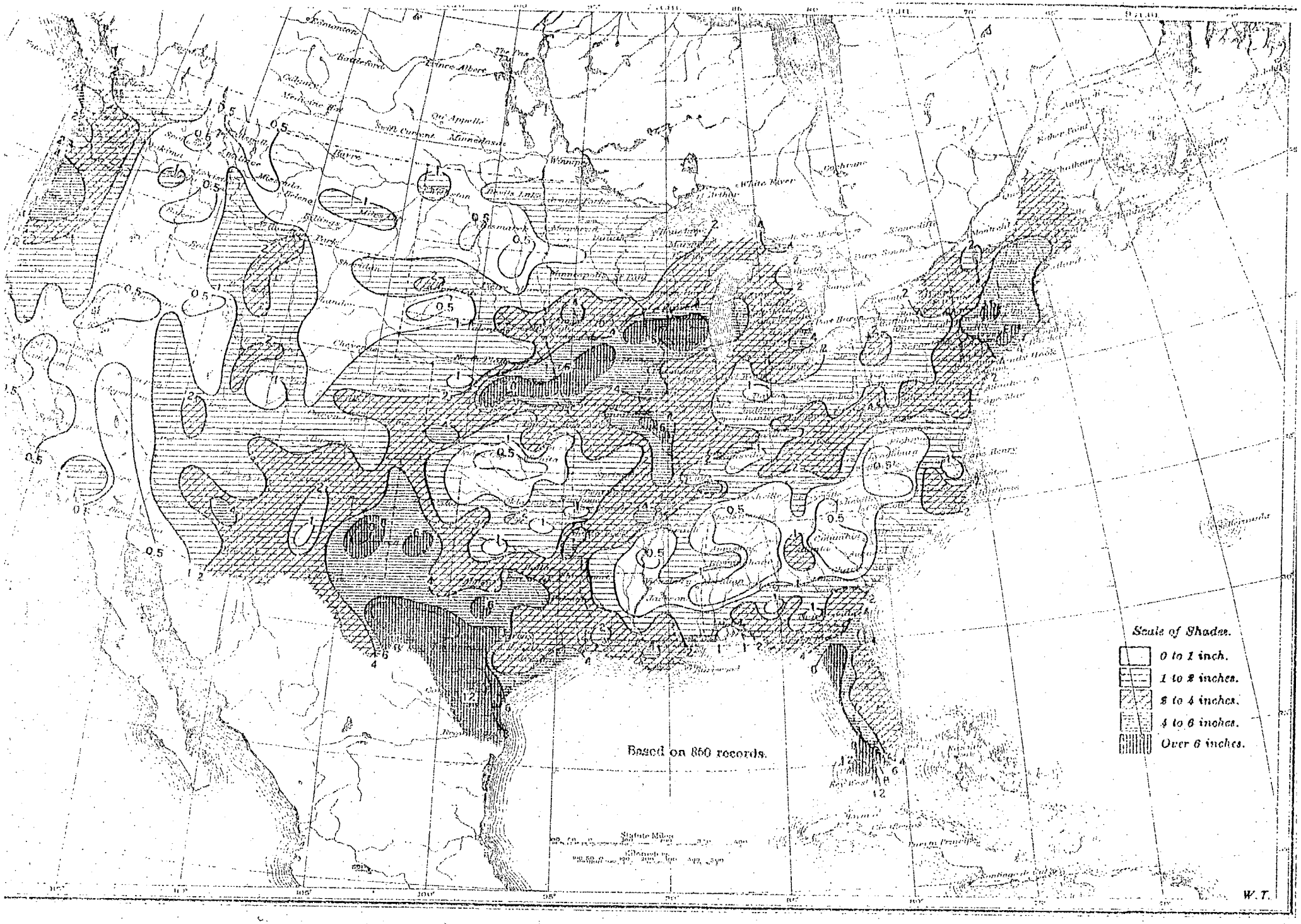
RIVER CONDITIONS.

Heavy rains attending and following the tropical storm caused serious floods in the Rio Grande and Nueces, Guadalupe and lower Colorado rivers, and a sharp rise in the Brazos. The Rio Grande was out of banks at Eagle Pass on the 17th and 18th and from the 22d to 24th; at Laredo on the 18th and 19th and 24th and 25th; at Riogrande from the 16th to the 28th; and at Mission from the 21st to 30th. The Guadalupe was flooded at Gonzales on the 20th and from the 25th to 27th, and at Victoria from the 21st to the close of the month; and the Colorado at Austin on the 25th, and at Columbus from the 25th to 28th. Flood waters did considerable damage to unharvested crops, and delayed the starting of fall truck crops in the irrigated section of the lower Rio Grande Valley.

The following table shows the highest, lowest, and mean stages recorded at the various river stations during the month:

	Flood stage.	Highest.	Date.	Lowest.	Date.	Mean
Rio Grande:						
Eagle Pass	16	38.5	17	4.0	12	10.9
Laredo	27	33.0	19	4.2	14	10.2
Riogrande	15	26.2	26	8.0	2	14.3
Mission	24	....	...	....	...	....
Guadalupe:						
Gonzales	22	27.1	26	2.9	14	10.4
Victoria	16	22.0	30	2.2	12	10.0
Colorado:						
Ballinger	28	8.0	22	0.8	13†	2.3
Marble Falls	..	18.7	24	2.4	14	5.6
Austin	18	18.4	25	1.3	14	4.5
Columbus	28	32.8	27	9.2	13†	14.9
Brazos:						
Brazos	22	4.3	25	0.9	13†	2.1
Kopperl	21	6.0	22	1.8	18†	3.0
Waco	27	25.8	20	6.1	19	9.4
Valley Junction	44	27.0	24	3.6	15†	7.5
Washington	45	31.9	24	8.2	15	14.4
Hempstead	40	17.4	27	2.1	20	6.4
Rosenberg	43	....	...	....	...	....
Trinity:						
Bridgeport	20	4.1	2	0.1	17†	1.7
Fort Worth	20	8.1	22	5.1	19	6.3
Dallas	25	17.4	23	4.7	19	7.6
Trinidad	28	20.8	24	4.0	17	7.9
Long Lake	40	....	...	....	...	....
Riverside	40	16.6	2†	2.0	19†	6.0
Liberty	25	18.5	4	5.3	25	9.2
Neches:						
Rockland	20	2.4	7	0.2	20†	1.1
Beaumont	7	5.1	15	1.2	12	2.4
Sabine:						
Logansport, La	25	15.6	35	6.3	20	9.9
Bon Wier	20	7.7	8	4.5	30	5.6
Orange	4	3.9	15	0.4	1†	1.3

†Also on subsequent dates.


Based on 860 records.
Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Statute Miles
Kilometers
W. T.