Climatological Data for September, 1910.

DISTRICT No. 8, TEXAS AND RIO GRANDE VALLEY.

BERNARD BUNNEMEYER, District Editor.

GENERAL SUMMARY.

The month of September, like the preceding month, was marked by persistently warm weather and by generally deficient precipitation. It was the warmest September in Texas during the last 23 years, while in New Mexico the mean temperature of the month was only a fraction of a degree less than the previous highest September mean recorded during the last 15 years. The precipitation of the month averaged much less in New Mexico and Colorado than it did in August, but there was a considerable gain in Texas. Droughty conditions, however, continued in may portions of Texas, and in some localities water had to be hauled by train and wagon from other points. A moderate excess of precipitation occurred over a limited area in the north-central portion of Texas from Shackelford and Coleman to Parker and Bosque counties, and a decided excess occurred in the lower coast counties and lower Rio Grande Valley; elsewhere in the district there was a conspicuous deficiency. In New Mexico the average precipitation was next to the lowest ever recorded in that territory. The rainfall was poorly distributed, being of the midsummer type with widely differing amounts in even near-by localities.

The greatest monthly precipitation in Colorado was 1.63 inch at Hermit; in New Mexico, 3.05 inches at Batesmans Ranch; and in Texas, 10.71 inches at Brownsville. There was no rain or only an inappreciable amount at one station in Texas and at five stations in New Mexico, while at six others in Texas and at four in New Mexico the monthly amounts were less than 0.10 inch. The least monthly amount in Colorado was 0.14 inch at San Luis. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred as follows: Brighton, 6.83; Brownsville, 8.21; Brownwood, 5.28; Corpus Christi, 4.44; Dublin, 2.78; Falfurrias, 3.48; Grapevine, 3.05; Kopperl, 3.80; La Parra, 7.75; Laureles Ranch, 5.79; Llano Grande, 5.00; Midland, 2.50; Mission, 5.65; Panter, 2.61; Ricardo, 4.41; and Weatherford, 2.63.

The sunshine was abundant and averaged above normal. The number of days with 0.01 inch or more of precipitation averaged 5 in Colorado, 3 in New Mexico, and 4 in Texas.

TEMPERATURE.

The monthly mean temperature was 3.3° above normal in Colorado, 2.8° above in New Mexico, and 3.5° above in Texas, the excess of temperature ranging from less than 2° on the Gulf coast to over 6° in northeastern Texas and in portions of the lower Rio Pecos and lower Rio Grande valleys. The change in temperature from day to day was unusually small, and no cool spells of importance occurred during the month. In the greater portion of the district the warmest weather occurred during the first decade and the coolest during the third decade. The diurnal range of temperature varied from about 8° on the upper Texas coast to about 42° in the extreme northwestern portion of the district.

The highest and lowest temperatures reported were: In Colorado, 90° at Saguache on the 8th, and 19° at Hermit on the 28th; in New Mexico, 104° at Carlsbad on the 3d, and 26° at Red River Canyon on the 26th; and in Texas, 107° at Fairland on the 1st, at Haskell on the 3d and 4th, and at Tilden on the 18th, and 45° at Plainview on the 27th. The local monthly means ranged from 57.0° to 60.4° in Colorado, from 48.2° to 76.8° in New Mexico, and from 71.1° to 85.4° in Texas.

PRECIPITATION.

The rainfall over the Rio Grande watershed was decidedly deficient, except over the extreme lower portion which received from 5.00 to 10.00 inches south of Fort McIntosh. Notwithstanding these heavy amounts the average for the entire watershed was only 1.23 inch, which is nearly 1.00 inch less than the average for the preceding month.

The average for the Rio Pecos watershed was only 0.86 inch, or over 2.00 inches less than the August rainfall. The deficiency of precipitation covered the entire watershed.

Heavy rains occurred over the lower portions of the coastal plains, but the upper coastal plains and the other watersheds of the district showed a marked deficiency of precipitation, the shortages ranging from 0.77 inch for the Colorado to 2.40 inches for the Sabine. There were, however, a few limited areas in the upper portions of the Colorado, Brazos, and Trinity valleys and in the lower portion of the Guadalupe Valley where the monthly amounts exceeded the normal. The following are the average monthly amounts in inches for the various watersheds: Nueces, 1.08; San Antonio, 0.98; Guadalupe, 2.11; Lavaca, 2.85; Colorado, 2.12; Brazos, 1.37; Trinity, 1.57; Neches, 1.70; Sabine, 0.97; and coastal plains, 4.41. These amounts are much greater than those reported for the preceding month, except in case of the Sabine watershed which showed a decided decrease.

RIVER CONDITIONS.

The Rio Grande was rising in its lower portion at the close of August and subsequent heavy rains caused it to overflow, but the flood waters did not reach the high stage of September, 1909. A report of the flood will be found in another chapter of this paper. The upper Rio Grande and the Rio Pecos were unusually low during the month, owing to lack of seasonal rains in the mountains. At the Leasburg Project the water supply during the month was insufficient. At the Hondo Project there was but little water available for irrigation. At the Carlsbad Project, however, water was delivered throughout the month, the total furnished amounting to 4,826 acre-feet.

The volumes of water discharged by the Colorado, Brazos, Trinity, and Neches rivers were slightly greater than during August, while the volume discharged by the Guadalupe was about the same, and that of the Sabine much less Sharp rises of about 10 feet occurred in the Colorado and Brazos rivers from the 6th to the 12th. The stages of the Guadalupe and Sabine rivers are the lowest on record for September.

MISCELLANEOUS.

Frosts.—A general light frost occurred in the northern districts of New Mexico on the 27th, which was probably the coldest day of the month, and killing frosts occurred at a few of the higher northern stations, but the season was so far advanced that little or no damage resulted. Last year killing frosts were reported from New Mexico on the 13th and 14th of September, and light frosts from Texas stations on the 28th and 29th of September. So far this season there has been no frost in Texas.

Cloudburst.—Torrential rains occurred in Comanche County, Tex., on the 5th and 6th, which caused a disastrous flood of the Leon River, a tributary of the Brazos. According to press dispatches a wall of water 25 feet high swept down the narrow channel of the river, carrying death and destruction in its path. A number of houses were swept away, 13 persons lost their lives, and much damage was done to live stock and crops.

FLOOD OF THE LOWER RIO GRANDE.

The flood of the lower Rio Grande was caused by heavy rains which occurred on September 14 in the southern portion of Texas and in contiguous portions of Mexico, attending a tropical disturbance moving inland south of Nueces County. At Corpus Christi the wind attained a velocity of 61 miles per hour from the east on the 14th, but there was very little wind at Brownsville, and it appears that the disturbance broke up over the lower

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Rio Grande Valley, its energy being converted into a torrential downpour. From 4 to 8 inches of rain fell in 24 consecutive hours on the 14th in Nueces, Cameron, Hidalgo, and Starr counties. By the morning of September 16 the river had risen 17 feet at Mission and warnings were immediately telegraphed to all points below. Flood stage was reached at Mission on the 19th, and the crest of the high water reached Brownsville on the 23d. The high water mark of the flood of September, 1909, which also resulted from torrential rains attending a tropical disturbance, was not reached by several feet, and the damage appears to have been comparatively slight. The following are reports of the flood received at this office:

Mission, Tex.—On September 14 5.65 inches of rain fell at Mission in 24 consecutive hours, and between Mission and Brownsville the rainfall for the corresponding period was much heavier. The river reached flood stage on the morning of September 19, when it was 26 feet 10 inches above the lowest known water this year. There being no river gage it was difficult to ascertain how this year's flood compares with that of last year, but from those who have been close observers of the river for many years, it is learned that the high water of 1909 exceeded that of this year by about 4 feet.

The heavy rainfall filled up all the low places and resaca beds in advance of the rise in the river, and when the river started to rise there was a vast volume of water that broke through the banks about 4 miles west of Mission and followed the resacas between the railroad and river down to the Arroyo Colorado. A great amount of this water passed over the railroad track east and west of Mercedes and found its way through the back country to Lyford and vicinity.

Out of a tract of 27,000 acres, 3 miles wide and 14 long at Mission, about 1,800 acres were inundated. Of this number less than 100 acres were planted to crops, mostly dry beans, which were promptly replaced with winter cabbages.

The train service on the Hidalgo Branch was irregular for less than one week, and for two successive days there was no mail delivery. After regular service was resumed on the branch line, the main line roadbed between Raymondville and Harlingen became very soft and in several places the ties and rails had sunk level with the surface of the ground.—*L. H. Romig.*

Llano Grande, Tex.—The recent flood was not as great as the one we had in September, 1909, by about 6½ feet. We suffered no damage here, while it has been reported that some of the canals farther up the river were slightly damaged. A few farmers suffered considerable damage to their crops, which consisted chiefly of California beans and of seed beds for winter truck.—*M. D. Wardlow.*

Brownsville, Tex.—Last week I made a trip through the valley to note the effect of the flood and found that the river made a total rise of 27 feet at Mission, overflowing into the resacas at that place on September 18. The water took an easterly course through the Mission tract, covering an area probably 2 miles wide. About 125 acres of crops were entirely destroyed and a great deal of plowed and prepared land was overflowed. The water meandered in an easterly and northeasterly direction, its greatest height being just west of Mercedes on September 21.

At Mercedes the water was 3 miles wide and it was necessary to cross the place by means of boats. The water swept in on the north side of Mercedes and covered the low ground up to the railroad track. This portion of the town is populated by Mexicans chiefly. The remainder of the town was not troubled by the water, except a few houses in the extreme western portion.

The water reached Harlingen and backed up toward town on the west side September 24, but was held back by levees. Some fields a mile west of town were 4 feet under water. The bulk of the water, which passed west of Mercedes, reached the low ground south of Lyford and crossed the main line of the St. Louis, Brownsville and Mexico Railroad on September 26, and traffic was disturbed. There was not the quantity of water in the overflow this time that there was in the second overflow of last fall. The overflow this year is estimated generally as being half way between the first and last overflows of last year.—*E. C. Green.*

Brownsville, Tex.—The Rio Grande was approximately 17½ feet below bank on September 1. On the 2d the river began to rise and reached its highest mark this year at Brownsville on September 23, having risen 15 feet 10 inches. A warning was received from Mission, stating that the river had risen 15 feet in 12 hours on the night of September 1. On September 16 another warning was received announcing a rise of 17 feet in 12 hours. A considerable portion of the land up the valley between Brownsville and Mission was flooded. The towns of Mission and Mercedes suffered from flood, but not to such a degree as last year. About 125 acres of crops were ruined and much cleared land will have to be replowed on account of the overflow. The flood water was kept out of Brownsville by means of levees. The main line of the St. Louis, Brownsville and Mexico Railroad near Lyford was out of commission for a short time on account of softened roadbed, and the branch line was flooded in several places.—*R. M. Boss.*

CONSERVATION OF FLOOD WATERS OF THE COLORADO RIVER.

The deficiency of precipitation over the Colorado watershed during the past summer, and the consequent low stages of that river, which broke all previous records for low water, have resulted in a strong agitation for a conservation of the flood waters of that stream. It is very probable that steps will be taken in the near future to prevent a repetition of the losses sustained this year as a direct result of the shortage of water. There are extensive rice fields in Colorado, Wharton, and Matagorda counties, which are irrigated from the waters of the Colorado River. During the past season the flow of the river was so low that irrigation became impossible. The irrigation plants had to suspend operation, and the rice crop suffered accordingly. From the best information available it appears that Matagorda County alone produces annually from 550,000 to 600,000 bags of rice. This year, on account of the drought, the production of rice in that county was reduced to about 100,000 bags—a decrease of 450,000 or 500,000 bags. At a market value of $2.25 per bag, this would mean a loss of over $1,000,000. With proper conservation and utilization of the waters of the Colorado River, much of this loss, if not all, could have been avoided.

The Colorado River rises in the western portion of Texas near the eastern boundary of New Mexico, flows in a general southeasterly direction, and empties into the Gulf of Mexico in Matagorda County. Its drainage area is 45,400 square miles. The stream emerges from a canyon at Austin, but south of that city it traverses a rather flat country. Its principal tributaries are the Concho, San Saba, and Llano. The Concho has a reliable flow and furnishes water for irrigation and for power. The San Saba rises in two springs near Fort McKavett in the western part of Menard County and flows in an easterly direction for over 100 miles to its junction with the Colorado. The Llano drains the territory east of Sonora and northeast of Rocksprings and joins the Colorado about 20 miles southeast of the town of Llano. Its waters are utilized for irrigation purposes.

The Colorado River has a more rapid flow than any of the other streams in Texas. The great dam at Austin, which was constructed at a cost of about $1,000,000, and was broken by a flood on April 7, 1900, is to be rebuilt. It was 1,250 feet long and 60 feet high. The dam at Marble Falls is nearing completion. It will be much higher than the natural dam, which has heretofore been utilized for water power. These dams will probably have a tendency to regulate the flow of the river below.

That there is a great amount of water discharged by the Colorado River, which could be made useful if properly conserved, is shown by the Weather Bureau records of the river stages at Columbus, Tex. The records show that in the last 7 years the river has been above flood stage at Columbus 14 times, and has been nearly bank full a number of other times. During this period flood stages obtained 5 times in May, 3 times in June, twice in August, and once each in April, July, October, and November. The lowest stages occur usually during the winter months. The present drought was preceded by a good flow in May, 1910, when the river attained a stage of 25.5 feet, which is 1.5 foot above flood stage. This water would have been of great value if it could have been impounded and utilized during the subsequent droughty season.

TABLE 1.—*Climatological data for September, 1910. District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Date.	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	8,403	1	57.0		82	8	27	24	50	0.26		0.19	0.0	3	15	15	0	sw.	L. C. Audrain.
Cumbres	Conejos	10,015	3								1.45		0.42	0.0	11	9	19	2	sw.	Ida M. Lively.
Garnett	Costilla	7,576	17	57.2	+ 3.4	86	10	28	6†	53	0.69	− 0.16	0.69	0.0	1	16	9	5		Chas. Speiser.
Hermit	Hinsdale	9,843						19	28		1.63		0.56	0.0	10	15	12	3		Marion Mason.
La Veta Pass	Costilla	9,000									0.22		0.12	0.0	2	20	9	1	w.	Norvin R. Lively.
Manassa	Conejos	7,700	4	57.6		82	9	27	28	50									sw.	J. B. Chapman.
Platoro	do	9,675	2								0.74		0.27	0.0	7	18	7	5	w.	Walter R. Hook.
Saguache	Saguache	7,740	18	60.4	+ 4.6	90	8	29	27	51	0.80	+ 0.17	0.70	0.0	2	18	3	9	w.	Eugene Williams.
San Luis	Costilla	7,794	19	57.4	+ 1.9	82	8†	30	23†	49	0.14	− 1.03	0.03	0.0	6	18	12	0	sw.	P. B. Albright.
Wagon Wheel Gap	Mineral	8,434	11	54.2	+ 6.3	80	8†	20	6†	55	T.	− 1.34	T.	0.0	0	16	14	0	w.	S. Eland.
New Mexico.																				
Agricultural College	Dona Ana	3,863	44	75.7	+ 2.7	98	3	48	30	42	0.23	− 1.22	0.23	0.0	1	9	20	1		New Mexico Agri. College.
Alamogordo (near)	Otero	4,338	9	76.5	+ 4.2	98	1†	54	28†	35	T.	− 1.03	T.	0.0	0	17	13	0		Geo. C. Bemis.
Alamogordo	do	4,320	1								0.15		0.15	0.0	1					El Paso & Southwest. R. R.
Albuquerque	Bernalillo	5,000	34								0.06		0.06	0.0	1	20	8	2		Pitt Ross, C. E.
Ancho	Lincoln	6,112	1								0.00		0.00	0.0	0	19	11	0		El Paso & Southwest. R. R.
Artesia	Eddy	3,350	2	74.1			3	51	29†	42	1.34		0.80	0.0	4	22	3	5	se.	Will Benson.
Aspen Grove Ranch	Rio Arriba	9,000	1								1.01		0.41	0.0	5	14	16	0		Junius D. Maupin.
Bateman's Ranch	do	8,900	1								3.05		1.25	0.0	5	18	11	1	w.	John W. Bateman.
Bluewater	Valencia	6,732	8																	Bluewater Development Co.
Bluewater Reservoir	do	9,000	1																	Do.
Boaz	Chaves	4,154	1	71.0			1	50	30	37	0.97		0.72	0.0	2	21	8	1	s.	D. C. Savage.
Capitan	Lincoln	6,348	1								0.75		0.62	0.0	3				s.	El Paso & Southwest. R. R.
Carlsbad	Eddy	3,120	15	76.8	+ 2.8		3	53	9	44	0.48	− 0.83	0.25	0.0	3	23	4	3	se.	U. S. Reclamation Service.
Carrizozo	Lincoln	5,429	2	70.0		89	7	51	27	33	0.13		0.13	0.0	1	24	6	0	sw.	El Paso & Southwest. R. R.
Carson Park	Taos	7,650									0.78		0.44	0.0	3					Lester S. Myers.
Chama	Rio Arriba	7,851	11	58.2	+ 0.4	84	8	31	6	46	0.15	− 1.69	0.15	0.0	1	27	3	0	sw.	Frank C. Johnson.
Cloudcroft	Otero	8,650	7																	El Paso & Southwest. R. R.
Corona	Lincoln	6,666	1								0.50		0.38	0.0	2				s.	Do.
Coyote	do	5,800	1								0.15		0.09	0.0	2	9	21	0	sw.	Do.
Cundiyo	Santa Fe	6,889	1								0.33		0.18	0.0	5	26	0	4	w.	Teofilo Vijil.
Demonstration Farm	San Miguel	6,800	1																	Erb & Westerman.
Duran	Torrance	6,272	1								0.30		0.16	0.0	2	15	14	1		El Paso & Southwest. R. R.
Elk (near)	Chaves	7,400	11																	Boyd Williams.
Escondido	Otero	4,014	1			100	5				T.		T.	0.0	0	13	13	4	se.	El Paso & Southwest. R. R.
Espanola	Rio Arriba	5,590	12																	Mrs. E. F. McBride.
Estancia	Torrance	6,140	5	64.6		92	1†	32	30	41	1.96		1.16	0.0	4	16	10	4	e.	New Mex. Cent. R./R.
Fort Stanton	Lincoln	6,231	32	63.6	+ 2.2	87[a]	7†	39[a]	29†	46[a]	0.90	− 1.07	0.45	0.0	6	18	8	4	se.	U. S. Sanitarium.
Fort Sumner	Guadalupe	3,960	2																	F. A. Manzanares.
Gallinas	Lincoln	6,635	1								T.		T.	0.0	0	24	2	4	w.	El Paso & Southwest. R. R.
Gallinas Planting Station	San Miguel	7,500	3	59.4		81	7†	34	24	40	1.86		0.79	0.0	7	6	23	1	se.	U. S. Forest Service.
Harvey's Upper Ranch	do	9,400	1								1.92		0.76	0.0	6	15	13	2	se.	Simon B. Warner.
Hillsboro	Sierra	5,224	13																	Dr. Frank I. Givens.
Hodges	Taos	8,484	1								1.00		0.46	0.0	5	9	13	8	nw.	A. Porter.
Hondo Reservoir	Chaves	3,904	1	73.5		99	3†	50	29	43	1.48		1.01	0.0	2	22	4	4	s.	U. S. Reclamation Service.
Hope	Eddy	4,000	3																	A. W. Board.
Hopewell	Rio Arriba	9,500	1			72	8													John T. Blanton.
Jemes Springs	Sandoval	6,100									0.36		0.12	0.0	9	13	14	3	sw.	Linus L. Shields.
Knowles (near)	Eddy	4,300		73.3		98	3	50	27	40	0.51		0.31	0.0	2	24	3	3	se.	J. W. Mosley.
Laguna	Valencia	5,840	5	69.9		91	10	46	26†	29	1.95		1.80	0.0	2					Gus Weiss.
Lagunita	Guadalupe	4,500	5	68.0		93	10†	45	28	41	1.07		1.05	0.0	3	19	9	2	s.	P. A. Turnbull.
Lake Valley	Sierra	5,412	5								0.66		0.31	0.0	7	15	14	1	sw.	Wm. P. Keil.
Las Vegas	San Miguel	6,384	23	63.2	+ 2.5	88	3†	35	29	47	1.08	− 1.19	0.54	0.0	3	27	2	1	s.	Dr. Wm. Curtiss Bailey.
Liston	Chaves	5,000									0.45		0.27	0.0	2	21	9	0	sw.	H. G. Liston.
Los Lunas (near)	Valencia	4,900	20	69.5	+ 2.8	94	7†	36	30	48	0.05	− 1.30	0.05	0.0	1	13	17	0		Richard Pohl.
Los Tanos	Guadalupe	4,919	1																	El Paso & Southwest. R. R.
Magdalena	Socorro	6,557	5	65.6		90	4	42	28†	40	1.70		1.25	0.0	7	14	14	2	w.	Wm. Pender.
Mineral Hill	San Miguel	7,050	5																	W. M. Nelson.
Monterey	Otero	4,436	1			98	8†				0.36		0.19	0.0	3	18	8	4	e.	El Paso & Southwest. R. R.
Mountainair	Torrance	6,547	8	64.4		91	10	38	29	46	0.46		0.34	0.0	3	20	9	1	sw.	Mrs. John W. Corbett.
Newman	Otero	3,989	1			100	1†				0.27		0.37	0.0	1	21	5	4	se.	El Paso & Southwest. R. R.
Noria	Dona Ana	4,114	1								0.68		0.60	0.0	2	15	10	5	w.	Do.
Orange	Otero	5,000	1			101	3	46	27	44	0.01		0.01	0.0	1	21	7	2	se.	Jas. Brownfield, jr.
Orogrande	do	4,171	1								0.25		0.20	0.0	2	6	20	4	e.	El Paso & Southwest. R. R.
Oscura (near)	Lincoln	5,016	1								0.08		0.04	0.0	3					Eugene F. Jones.
Otis	Eddy	3,100	1								2.25		1.28	0.0	4	25	1	4	se.	A. M. Hove.
Otto	Santa Fe	6,200	1								0.73		0.59	0.0	2					W. K. Davis.
Pastura	Guadalupe	5,285	1			90	22	45	15		0.96		0.82	0.0	2	22	8	0	sw.	El Paso & Southwest. R. R.
Picacho (near)	Lincoln	5,000																		P. D. Southworth.
Plainview (near)	Chaves	4,300																		L. P. Adair.
Red River Canyon	Taos	8,956	2	52.8		80	8	26	26	51	0.60		0.60	0.0	1	19	12	0	e.	Mrs. L. R. Penn.
Rincon	Dona Ana	4,050	12	75.3	+ 3.6	96	10†	52	24†	43	0.48	− 0.88	0.35	0.0	2	9	12	9	s.	Chas. H. Raitt.
Rio Grande Dam	Sierra	4,265	12	73.4	+ 4.0	97	8†	42	30	47	0.37	− 1.37	0.25	0.0	5	23	5	2	sw.	U. S. Reclamation Service.
Rosedale	Socorro	6,910	5	65.0		84	11	46	28	30	1.89		0.47	0.0	11	17	5	8	w.	W. H. Martin.
Roswell	Chaves	3,578	12	72.5	+ 2.2	96	3	49	30	41	0.44	− 1.85	0.34	0.0	4	16	12	2	s.	U. S. Weather Bureau.
San Marcial	Socorro	4,439	14	75.3	+ 5.7	97	24	49	27	43						6	14	10	se.	Atch., Topeka & S. F. R. R.
San Rafael	Valencia	6,509	6																	Dr. Chas. M. Grover.
Santa Fe	Santa Fe	7,013	37	63.2	+ 2.6	83	8	43	23	31	1.12	− 0.52	0.55	0.0	6	19	9	2	sw.	U. S. Weather Bureau.
Santa Fe Canyon	do	8,000	1								T.		T.	0.0	0	20	4	6	w.	Candelario Martinez.
Santa Rosa	Guadalupe	4,624	10	71.6		95	10	46	28	43	1.33	+ 0.01	1.11	0.0	6	21	9	0	w.	John R. Chapman.
Socorro	Socorro	4,600	18	71.1	+ 1.7	99	12	41	13†	55	0.39	− 1.49	0.24	0.0	4	26	4	0	w.	J. J. Leeson.
Stanley	Santa Fe	6,317	1	63.6		89	8	37	30	47	0.37		0.29	0.0	2	14	9	7	w.	Henry Winan.
Strauss	Dona Ana	4,080	11								0.38	− 1.02	0.22	0.0	3	15	7	8	s.	Southern Pacific R. R.
Swastika Ranch	Valencia	6,400	1								0.97		0.49	0.0	6	20	9	1	sw.	Swastika S. & L. Co.
Taft	Guadalupe	5,000									0.55		0.35	0.0	4	16	11	3	s.	A. J. Wilmeth.
Tajique (near)	Torrance	6,900									1.59		0.55	0.0	7	15	13	2		U. S. Forest Service.
Taos	Taos	6,983	12	63.4	+ 2.1	87	2	36	24	42	0.26	− 0.93	0.11	0.0	5	21	9	0	w.	Alexander Gusdorf.
Taos Canyon	do	8,959	1								0.81		0.60	0.0	7					Leocadio Martinez, jr.
Tecolote	Lincoln	6,539	1								0.44		0.20	0.0	5	12	15	3	s.	El Paso & Southwest. R. R.
Three Rivers	Otero	4,559	1								0.13		0.09	0.0	2	20	4	6		Do.
Tijeras Canyon	Bernalillo	6,214	1								0.54		0.25	0.0	3	20	7	3	sw.	U. S. Forest Service.
Torrance	Torrance	6,433	1								0.11		0.04	0.0	3	18	8	4	sw.	El Paso & Southwest. R. R.
Tres Piedras	Taos	8,076	5	59.2		86	9	32	27	47	1.00		0.50	0.0	3	18	9	3	sw.	Edwin B. Seward.
Truchas	Rio Arriba	7,935	1	56.0		80	8	31	27†	43	1.00		1.00	0.0	1	1	27	2		Ignacio Cordova.
Tularosa	Otero	4,436		74.3		96	8	53	29	37	0.21		0.19	0.0	2	19	11	0	sw.	Irby L. Fairless.
Vaughn	Guadalupe	5,952	1								0.96		0.82	0.0	2	10	20	0		El Paso & Southwest. R. R.
Virsylvia	Taos	7,500				88	9†				0.13		0.07	0.0	3	28	2	0	s.	Dr. I. N. Woodman.

TABLE 1.—*Climatological data for September, 1910. District No. 8*—Continued.

Stations	Counties.	Elevation, feet.	Length of record, yrs.	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, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
New Mexico—Cont'd.																				
Winsors	San Miguel	8,200	12	48.2	.....	69	11	27	24†	41	0.90	− 1.17	0.48	0.0	6	19	7	4	w.	Henry D. Winsor.
Texas.																				
Abilene	Taylor	1,738	25	80.0	+ 5.8	99	4	56	27	30	1.64	− 1.50	1.36	0.0	7	16	10	4	s.	U. S. Weather Bureau.
Albany	Shackelford	1,429	16	79.0	+ 4.8	102	3†	55	27	40	3.07	+ 0.38	2.25	0.0	3	26	2	2	.....	N. L. Bartholomew.
Anahuac§	Chambers	23	1	.....	.....	.....	.....	.....	.....	.....	3.99	.....	0.86	0.0	9	.....	.....	.....	.....	B. H. Collins.
Austin	Travis	593	54	81.3	+ 2.8	95	2†	67	20†	23	1.18	− 2.56	0.40	0.0	7	14	11	5	sw.	A. Deussen.
Ballinger	Runnels	1,637	15	79.8	+ 4.5	101	2†	58	27	35	2.02	− 1.22	1.20	0.0	5	18	8	4	s.	E. M. Eubank.
Barstow	Ward	2,573	3	.....	.....	.....	.....	.....	.....	.....	0.69	.....	0.46	0.0	2	.....	.....	.....	.....	W. H. Denis.
Bay City	Matagorda	53	.....	.....	.....	.....	.....	.....	.....	.....	3.37	.....	0.95	0.0	8	11	8	11	s.	E. C. Quereau.
Beaumont	Jefferson	29	13	81.2	.....	95	1†	65	19†	29	1.69	− 1.24	0.58	0.0	8	17	0	13	ne.	John Bender.
Beeville	Bee	225	14	81.8	+ 3.0	100	9	66	19†	29	3.77	+ 0.99	0.70	0.0	10	12	12	6	e.	L. E. Dickey.
Big Springs	Howard	2,396	12	80.6	.....	104	3	55	27	36	0.42	− 2.05	0.20	0.0	4	14	13	0	s.	B. Reagan.
Blanco	Blanco	1,350	14	80.8	+ 3.8	100	2†	60	23†	35	0.46	− 2.67	0.36	0.0	2	10[a]	19[a]	0[a]	s.	R. C. Crist.
Boerne	Kendall	1,412	18	79.0	+ 2.8	100	1†	57	20†	41	1.43	− 1.51	0.66	0.0	4	3	18	9	s.	F. W. Schweppe.
Booth	Fort Bend	81	9	.....	.....	.....	.....	.....	.....	.....	0.62	.....	0.30	0.0	5	23	0	7	e.	T. R. Booth.
Boquillas	Brewster	.....	.....	85.7	.....	105	3	65	16	29	0.07	.....	0.03	0.0	3	.....	.....	.....	.....	J. O. Langford.
Bowie	Montague	1,113	16	83.4	+ 5.9	103	2†	58	27	42	0.84	− 2.08	0.82	0.0	2	17	8	5	e.	Craig Anderson.
Brazoria	Brazoria	25	21	.....	.....	102	.....	61	19	.....	3.03	− 2.67	.....	0.0	.....	.....	.....	.....	.....	Mrs. M. A. Stevens.
Brazos	Palo Pinto	801	1	.....	.....	.....	.....	.....	.....	.....	0.94	.....	0.94	0.0	1	20	9	1	sw.	Robt. E. Boyett.
Brenham	Washington	350	21	82.4	+ 3.5	100	3†	65	19†	28	1.68	− 1.52	0.57	0.0	8	20	6	4	se.	Mrs. B. F. Sloan.
Bridgeport	Wise	754	1	.....	.....	.....	.....	.....	.....	.....	0.29	.....	0.15	0.0	3	19	7	4	se.	Claude Strange.
Brighton	Nueces	12	14	82.0	+ 1.5	96	9	70	10	20	7.81	+ 4.79	6.83	0.0	4	13	11	6	se.	G. H. Ritter.
Brownsville	Cameron	38	21	80.2	+ 1.0	91	1†	69	19	20	10.71	+ 5.09	8.21	0.0	8	.....	.....	.....	e.	U. S. Weather Bureau.
Brownwood	Brown	1,342	20	79.8	+ 3.2	102	2†	60	28	33	5.52	+ 2.75	5.28	0.0	5	21	8	1	s.	Mrs. Pearl Smith.
Cameron	Milam	.....	2	84.6	.....	103	3	66	19†	33	0.56	.....	0.45	0.0	2	25	5	0	se.	J. E. Watts.
Carmona	Polk	330	2	80.3	.....	100	1†	50	19	43	1.86	.....	0.61	0.0	8	7	18	5	s.	M. S. Spitler.
Claytonville	Fisher	2,100	15	80.4	.....	101	3†	55	28	38	0.10	− 2.45	0.10	0.0	1	16	8	6	s.	Wm. Lanius.
Coleman	Coleman	1,710	16	80.0	+ 4.9	100	2†	63	20†	30	4.48	+ 0.87	2.10	0.0	6	14	11	5	s.	J. E. Stevens.
College Station	Brazos	308	19	82.4	+ 3.6	100	1†	61	19	34	1.50	− 1.82	0.83	0.0	6	20	8	2	s.	Prof. G. S. Fraps.
Colorado	Mitchell	2,066	16	78.4	+ 7.5	100	3†	56	29	36	0.90	− 1.47	0.54	0.0	4	16[e]	5[e]	5[e]	s.	R. M. Webb.
Columbia	Brazoria	34	21	76.8	+ 3.2	95	3†	60	21	30	5.16	− 0.14	1.40	0.0	11	18	8	4	s.	R. B. Loggins.
Columbus	Colorado	206	6	.....	.....	.....	.....	.....	.....	.....	2.30	.....	0.66	0.0	7	20	10	0	ne.	Mrs. Sophie Bridge.
Comstock	Valverde	1,557	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. F. Prosser.
Corpus Christi	Nueces	20	23	80.7	+ 1.7	91	9	70	9	21	6.09	+ 2.09	4.44	0.0	8	16	9	5	se.	U. S. Weather Bureau.
Corsicana	Navarro	445	21	83.6	+ 6.0	102	2	65	17†	32	0.55	− 2.24	0.39	0.0	3	28	2	0	se.	E. L. Gibson.
Crockett	Houston	350	6	82.9	.....	101	1†	61	19†	37	0.92	.....	0.48	0.0	5	17	13	0	s.	A. M. Rencher.
Cuero	DeWitt	177	21	82.6	+ 3.5	102	9	64	22†	36	1.66	− 2.29	0.45	0.0	9	19	7	4	s.	H. R. Frobese.
Dallas	Dallas	466	21	82.4	+ 5.1	102	2	61	20†	38	2.63	− 0.19	2.48	0.0	2	23	1	6	s.	G. A. Eisenlohr.
Danevang	Wharton	145	14	81.1	+ 2.6	98	8†	63	21†	30	2.25	− 1.60	0.95	0.0	5	24	6	0	se.	H. P. Hermansen.
Decatur	Wise	1,047	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fort Worth & Denver Ry.
Del Rio	Valverde	952	4	82.1	+ 3.2	98	5	66	28	29	0.72	− 2.22	0.59	0.0	5	16	10	4	se.	U. S. Weather Bureau.
Devine§	Medina	653	.....	83.9	.....	102	9	65	20†	33	0.80	.....	0.38	0.0	4	16	10	4	se.	M. A. Keller.
Dialville	Cherokee	575	6	82.2	.....	100	8	62	19	33	0.50	.....	0.40	0.0	3	20	9	1	s.	J. M. B. Knight.
Dilley	Frio	569	.....	.....	.....	.....	.....	.....	.....	.....	1.02	.....	1.00	0.0	2	.....	.....	.....	.....	John W. Miller.
Dublin	Erath	1,466	15	79.4	+ 2.9	98	2†	60	27	31	3.21	+ 0.69	2.78	0.0	3	16	13	1	s.	Jno. O. Shafer.
Duval	Travis	820	21	81.0	+ 1.6	100	9	65	25†	29	2.03	− 0.35	0.78	0.0	6	18	5	7	se.	J. C. Edgar.
Eagle Pass	Maverick	800	21	87.6	+ 6.2	103	3†	70	25†	26	2.60	− 0.71	1.85	0.0	4	2	24	4	.....	Jos. Metcalfe.
Edna	Jackson	71	1	.....	.....	.....	.....	.....	.....	.....	4.68	.....	1.90	0.0	6	.....	.....	.....	.....	E. L. Faires.
El Paso	El Paso	3,762	31	77.6	+ 4.9	97	3	59	29	30	0.24	− 1.21	0.09	0.0	3	19	9	2	e.	U. S. Weather Bureau.
Encinal	La Salle	558	2	82.4	.....	102	8	63	19	35	1.09	.....	0.40	0.0	5	0	25	5	e.	H. C. Braden.
Fairland	Burnet	1,000	22	83.4	.....	107	1	62	20	36	1.19	− 1.35	0.43	0.0	5	25	5	0	s.	R. L. Bush.
Falfurrias	Starr	.....	3	80.4	.....	99	2†	60	14	32	4.08	.....	3.48	0.0	4	20	8	2	se.	W. A. Gardner.
Flatonia	Fayette	465	2	81.9	.....	101	9	64	30	31	1.73	.....	0.70	0.0	6	14	13	3	s.	Fred W. Laux.
Flint§	Smith	483	.....	81.9	.....	102	3	56	19	39	1.16	.....	0.72	0.0	4	23	7	0	e.	F. C. C. Carter.
Fort Clark	Kinney	1,050	23	81.8	+ 2.5	98	1†	66	15†	27	0.82	− 2.30	0.40	0.0	5	13	12	5	se.	Post Hospital.
Fort McIntosh	Webb	460	24	85.4	+ 3.7	101	9	69	20	27	1.47	− 1.28	0.72	0.0	3	12	8	10	e.	Do
Fort Stockton	Pecos	3,050	13	79.2	+ 6.7	104	3	57	16†	40	1.10	− 1.91	1.00	0.0	3	13	17	0	se.	H. H. Butz.
Fort Worth	Tarrant	670	15	81.2	+ 4.5	97	3	61	27	27	2.21	− 0.74	1.86	0.0	4	18	12	0	s.	U. S. Weather Bureau.
Fredericksburg	Gillespie	1,742	21	79.0	+ 3.3	95	2†	62	20†	28[a]	2.20	− 0.82	1.09	0.0	3	18	10	2	s.	Arthur Striegler.
Gainesville	Cooke	738	21	82.1	+ 5.6	103	3	60	27	38	1.35	− 1.89	1.33	0.0	2	.....	.....	.....	.....	J. L. Hickson.
Galveston	Galveston	69	40	80.6	+ 1.2	91	9	68	9	23	4.74	− 0.67	1.49	0.0	11	15	12	3	se.	U. S. Weather Bureau.
Gatesville	Coryell	795	6	82.0	.....	98	9	54	20†	32	0.50	.....	0.40	0.0	2	23	7	0	.....	John Ryan.
Georgetown	Williamson	750	15	81.6	+ 4.0	103	9	62	20	35	1.09	− 2.00	0.76	0.0	5	18	12	0	s.	Prof. R. F. Young.
Gonzales	Gonzales	299	5	.....	.....	.....	.....	.....	.....	.....	2.98	.....	1.12	0.0	9	21	6	3	s.	J. M. Johnson.
Graham	Young	1,040	11	83.2	+ 4.9	105	2†	59	27	40	1.16	− 1.62	0.85	0.0	4	26	2	2	s.	C. W. Johnson.
Grand Saline	Van Zandt	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.76	.....	0.38	0.0	4	15	15	0	ne.	F. E. Whittemore.
Grapevine	Tarrant	670	20	82.1[c]	+ 4.2	101	3	61	26	30[c]	3.05	.....	3.05	0.0	1	9[c]	12[c]	4[c]	s.	W. J. Crowley.
Greenville	Hunt	550	10	83.5	+ 5.2	102	2	64	28	34	0.80	− 2.61	0.80	0.0	1	21	9	0	s.	J. P. Regan.
Hallettsville	Lavaca	235	19	81.8	+ 2.4	96	9	64	22	30	1.02	− 1.57	0.35	0.0	5	15	12	3	s.	Dr. J. E. Lay.
Harper	Gillespie	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.06	.....	0.40	0.0	4	9	0	21	.....	Christian Fritz.
Haskell	Haskell	4,013	19	83.0	+ 7.5	107	3†	56	27	41	0.15	− 2.09	0.15	0.0	1	19	9	2	s.	P. D. Sanders.
Hebbronville	Duval	.....	3	.....	.....	.....	.....	.....	.....	.....	3.45	.....	2.25	0.0	3	.....	.....	.....	.....	Henry Edds.
Hempstead	Waller	254	6	.....	.....	.....	.....	.....	.....	.....	0.65	.....	0.25	0.0	4	11	12	7	e.	J. H. Hancock.
Henderson	Rusk	500	1	.....	.....	.....	.....	.....	.....	.....	1.08	.....	0.41	0.0	5	18	10	2	.....	M. Kangerga.
Hewitt	McLennan	664	15	.....	.....	.....	.....	.....	.....	.....	0.25	.....	0.21	0.0	3	.....	.....	.....	.....	I. H. Earle.
Hillsboro	Hill	628	7	83.6	.....	102	1†	59	30	39	1.57	.....	1.57	0.0	1	.....	.....	.....	.....	Thompson & Campbell.
Hondo	Medina	901	8	80.5	.....	98	1†	60	12†	30	0.73	− 2.64	0.28	0.0	5	17	13	0	.....	H. E. Haass.
Houston	Harris	138	21	80.4	+ 2.4	96	9	63	19	28	1.04	− 3.45	0.32	0.0	12	21	6	3	se.	U. S. Weather Bureau.
Huntsville	Walker	400	22	79.8	+ 2.0	97	1	58	19†	33	2.09	− 0.80	0.89	0.0	3	22	0	8	se.	W. Y. Barr.
Jayton	Kent	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	Wichita Valley Ry. Co.
Jewett	Leon	496	6	83.8	.....	105	1†	60	17†	40	1.04	.....	0.40	0.0	4	14	9	7	s.	Earle Adkisson.
Junction	Kimble	1,645	7	77.4	.....	100	3	58	14†	40	2.95	.....	1.00	0.0	6	19	5	6	.....	Judge John S. Durst.
Kaufman	Kaufman	448	11	83.0	+ 4.2	101	2	62	19	36	0.56	− 3.49	0.40	0.0	2	20	10	0	s.	B. J. Hubbard.
Keene	Johnson	940	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Industrial Academy.
Kerrville	Kerr	1,650	15	81.7	+ 6.2	100	9	63	22	31	0.95	− 1.92	0.28	0.0	7	7	9	14	.....	Mrs. F. Coleman.
Knickerbocker	Tom Green	2,050	6	80.2	.....	102	2†	58	27	37	2.65	.....	1.18	0.0	5	18	6	6	se.	Jos. Tweedy.
Kopperl	Bosque	576	13	.....	.....	.....	.....	.....	.....	.....	3.80	+ 1.01	3.80	0.0	1	17	10	3	s.	T. A. Johnson.
Lagrange	Fayette	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.73	.....	0.22	0.0	5	20	2	8	se.	August Hermes.
Lamesa	Dawson	2,500	.....	.....	.....	.....	.....	.....	.....	.....	1.09	.....	0.76	0.0	4	.....	.....	.....	.....	S. D. Austin.
Lampasas	Lampasas	1,026	19	81.8	+ 5.3	100	1	61	18	37	0.32	− 2.23	0.18	0.0	3	25	2	3	s.	Mrs. K. I. Webber.
La Parra	Cameron	38	8	.....	.....	.....	.....	.....	.....	.....	7.75	.....	7.75	0.0	1	.....	.....	.....	.....	Jno. G. Kenedy.
Laureles Ranch	Nueces	20	11	.....	.....	.....	.....	.....	.....	.....	7.89	+ 5.19	5.79	0.0	6	.....	.....	.....	.....	Matt Cody.
Liberty	Liberty	38	6	79.6	.....	96	2†	55	19	36	2.77	.....	0.93	0.0	7	21	7	2	ne.	Mrs. Fannie Sneed.
Llano	Llano	1,040	19	83.0	+ 4.5	101	3	64	20	29	0.06	− 1.92	0.03	0.0	3	24	6	0	se.	E. W. Torrence.
Llano Grande	Hidalgo	86	2	76.4	.....	96	11†	60	16†	34	5.30	.....	5.00	0.0	4	0	28	2	e.	M. D. Wardlow.
Long Lake	Anderson	229	5	.....	.....	.....	.....	.....	.....	.....	1.10	.....	0.52	0.0	4	25	3	2	n.	Geo. W. Ellis.
Longview	Gregg	336	21	81.8	+ 4.4	100	4	58	19	37	0.71	− 2.18	0.30	0.0	5	24	2	4	ne.	C. A. Propst.

TABLE 1.—*Climatological data for September, 1910. District No. 8*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .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.		
Texas—Cont'd.																				
Lufkin	Angelina	325	3	80.2		99	1†	52	19	41	1.93		0.43	0.0	7	20	6	4	s.	T. A. King.
Luling	Caldwell	418	21	81.1	+ 4.3	99	9	66	20†	27	1.96	− 0.96	1.15	0.0	6	14	15	1	s.	John Carter.
Marathon	Brewster	4,043		71.1		92	3	55	19†	29	1.33		0.40	0.0	7	9	11	10	s.	Rev. A. P. Willis.
Marble Falls	Burnet	771	2								1.40		0.54	0.0	5	17	4	9	sw.	Wm. Harrison.
Marfa	Presidio		2								0.50		0.30	0.0	2					R. K. Colquitt.
Marshall	Harrison	375	1	80.5		98	21	53	19	40	0.19		0.15	0.0	3	3	27	0	ne.	Lee Scott.
Matagorda	Matagorda										2.64		2.20	0.0	3	19	7	4	e.	W. E. McNabb.
Mexia	Limestone	537	6	81.6		100	1†	60	20	35	1.18		1.10	0.0	2	9	18	3	s.	Miss Josephine Newman.
Midland	Midland		3								3.35		2.50	0.0	3	15	15	0	se.	H. J. Elder.
Mission	Hidalgo										8.20		5.65	0.0	7	13	17	0	se.	L. H. Romig.
Mont Belvieu§	Chambers	65									2.80		1.13	0.0	8	20	7	3	se.	A. R. Shearer.
Mountain View	Pecos										0.41		0.19	0.0	3					Lucius W. Gosselin.
Mt. Blanco	Crosby	2,750	22	76.4	+ 4.6	96	4†	52	27†	39	0.00	− 2.13	0.00	0.0	0	23	3	4	s.	H. C. Smith.
Nacogdoches	Nacogdoches	271	11	79.4	+ 3.1	97	5†	51	19	39	0.94	− 2.42	0.38	0.0	4	24	3	3	n.	Miss Mary Hofmann.
New Braunfels	Comal	720	21	78.9[k]		93	17†	63	23	29[k]	1.29		0.47[k]	0.0	5[k]	13[k]	5[c]	1[k]		J. Giesecke.
Palestine	Anderson	510	28	81.4	+ 6.7	96	9	64	18	27	1.13	− 2.07	0.56	0.0	6	16	13	1	ne.	U. S. Weather Bureau.
Panter	Hood	1,000	20								2.94	+ 0.38	2.61	0.0	4					E. H. Snider.
Pearsall	Frio	629									0.60		0.23	0.0	4					Earnest De Vilbiss.
Pierce	Wharton	102	4	78.3		98	8	55	19	34	4.38		1.06	0.0	8	5	19	6		R. B. Pointer.
Plainview	Hale	3,370	18	74.4		101	11	45	27	44	0.06	− 2.22	0.06	0.0	1	28	2	0	s.	J. F. Sander.
Port Lavaca	Calhoun	20	9	82.4		99	9	64	19†	29	2.27		1.28	0.0	4	16	12	2	se.	J. H. Bickford.
Post City	Garza										0.38		0.38	0.0	1	25	5	0	s.	W. L. Dodd.
Ricardo	Nueces	57	1	81.0		99	9	66	22	27	6.98		4.41	0.0	8	17	10	3	se.	Lindsay Waters.
Riverside	Walker	169	6								2.07		0.95	0.0	3	22	0	8	n.	Mrs. C. W. Higdon.
Robert Lee	Coke	1,850	11	80.0		100	4	58	27	36	2.53	− 0.52	2.05	0.0	5	21	7	2	s.	H. D. Pearce.
Rockland	Tyler	136	6								3.27		1.42	0.0	4	19	8	3	s.	D. W. Bellamy.
Rossville	Atascosa	558	3	82.6		99	4	64	21†	28	0.91		0.76	0.0	2	6	23	1	se.	W. F. M. Ross.
Runge	Karnes	308	15								1.53		0.97	0.0	2					Reiffert & Frobese.
Sabinal	Uvalde	964	6	82.6		103	9	61	23	35	1.70		0.52	0.0	8	2	16	12	se.	Jas. Johnson.
Salado	Bell										0.08		0.08	0.0	1	15	10	5	s.	L. M. Crockett.
San Angelo	Tom Green	1,847	19	80.2		102	4	58	27	36	2.19	− 0.52	1.50	0.0	6	19	8	3	s.	Sam Crowther.
San Antonio	Bexar	701	25	81.5	+ 4.4	98	9	66	23	29	0.56	− 2.38	0.43	0.0	6	13	14	3	se.	U. S. Weather Bureau.
San Augustine	San Augustine	360	1	79.6		99	1	49	19	42	2.89		1.67	0.0	5	16	9	5		F. A. Wilson.
San Juanito§	Hidalgo		1			99	9				1.09		0.40	0.0	5	10	2	18	se.	J. B. McAllen.
San Marcos	Hays	588	17	81.0	+ 2.6	98	9	63	23†	28	1.36	− 1.24	0.65	0.0	3	24	0	6	n.	Miss L. C. Ford.
San Saba	San Saba	1,712	6	80.9		99	2†	60	21	34	0.95		0.52	0.0	6	22	7	0	s.	Jas. Burns.
Santa Gertrudes	Nueces		8								5.25	+ 2.55	2.00	0.0	4					J. B. Wright, jr.
Seymour	Baylor	1,320	4	80.7		102	3	55	27	36	0.11		0.08	0.0	2	24	5	1	s.	F. M. Deaver.
Sligo	Yoakum																			F. N. Anderson.
Somerville	Burleson	251	1	79.8		99	1†	62	24†	32	0.11		0.06	0.0	2	0	30	0	s.	W. A. Dolan.
Sonora	Sutton	2,200	7	77.2[k]		100	15	59	28	38[k]	4.07		1.87	0.0	6	3[k]	13[k]	3[k]	e.[k]	Mike Murphy.
Sugarland	Fort Bend	79	12																	Cunningham Sugar Co.
Sutherland Springs§	Wilson			83.5		101	9	65	22	32	0.42		0.42	0.0	4	22	5	3	se.	W. A. Clark.
Taylor	Williamson	583	9	81.2	+ 4.3	98	9	65	20	33	2.95	− 0.09	1.74	0.0	8	21	7	2	s.	U. S. Weather Bureau.
Temple	Bell	630	16	82.4	+ 5.3	98	11	68	28†	23	1.60	− 1.02	1.02	0.0	4	24	3	3	s.	W. Goodrich Jones.
Theodore	Winkler										0.04		0.04	0.0	1					W. H. Gibbs.
Thurber	Erath										1.61		1.01	0.0	1					J. K. Ball.
Tilden	McMullen		4	83.9		107*	18	62	25	39	1.57		0.60	0.0	4	6	18	6	se.	Wm. Kuykendall.
Tivoli	Refugio										4.72		2.25	0.0	7	6	24	0		W. H. Gisler.
Uvalde	Uvalde	937	2	82.4		102	9	63	17†	35	1.30		0.65	0.0	5	2	28	0	se.	F. M. Getzendaner.
Valley Junction	Robertson	289	10								1.58	− 1.32	0.72	0.0	4	19	9	2	s.	T. M. Williams.
Victoria	Victoria	187	12	82.3	+ 1.4	100	8	64	19	30	3.97	+ 0.91	1.30	0.0	5	19	3	8	s.	C. C. Zirjacks.
Waco	McLennan	424	21	83.5	+ 4.7	100	1†	65	20	30	0.12	− 2.47	0.12	0.0	1	23	1	6	s.	E. H. Hall.
Waxahachie	Ellis	556	14	81.8	+ 4.6	101	2†	60	17†	39	1.46	− 1.54	1.46	0.0	1	27	2	1	s.	C. D. Longserre.
Weatherford	Parker	864	21	81.0	+ 4.8	100	2	59	28	30	2.66	+ 0.22	2.63	0.0	2	27	2	1	n.	Miss J. Stickfort.
Wharton	Wharton	105	8	79.6		97	9	57	19	32	1.97		0.51	0.0	7	22	1	7	n.	Mrs. F. M. Hughs.
Wills Point	Van Zandt	524	5	82.2		104	1	60	12†	42	2.06		1.56	0.0	3	19	4	7	s.	W. W. Gibbard.
Zapata	Zapata	300	1	82.9		101	4†	64	20	31	7.25		2.30	0.0	7	5	20	5	se.	F. H. Earnest.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ 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
‖ Estimated by observer.
‖‖ 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 2.—*Daily precipitation for September, 1910. District No. 8, Texas and Rio Grande Valley.*

Stations.	River basins.	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												.05	.02			T.		T.		.19	T.											0.26
Cumbres	do	.20		.23								.13		.09		.13		.02	.18	.02	.03	.10	.32										1.45
Garnett	do																		.69		T.	T.											0.69
Hermit	do	T.	.05	T.								.30	T.	.30	.06	.10	.05			.35	.21	.15	.06			T.							1.63
La Veta Pass	do											.10									.12												0.22
Manassa	do																																
Platoro	do	T.		.18								T.	T.	.01	.02	.11	T.		.12	.27		.03											0.74
Saguache	do											T.	T.								T.	.70	.10										0.80
San Luis	do	.01		.03									.03	.01						.03	.03	T.											0.14
Wagon Wheel Gap	do	T.	T.	T.	T.															T.				T.									T.
New Mexico.																																	
Agricultural College	Rio Grande																.23																0.23
Alamogordo (near)	do															T.					T.									T.			T.
Alamogordo	do																									.15							0.15
Albuquerque	do													T.	.06							T.	T.										0.06
Ancho	do																																0.00
Artesia	Pecos													.30	.80	.15													.09				1.34
Aspen Grove Ranch	Rio Grande	.09											.08					.41		.06		.37											1.01
Batemans Ranch	do	.65		T.								T.	T.	T.				.40	.45	1.25		.30											3.05
Bluewater	do																																
Bluewater Reservoir	do																																
Boaz	Pecos														.72														.25				0.97
Capitan	do																						.62				.10	.03					0.75
Carlsbad	do													.25	.14											T.			.09				0.48
Carrizozo	Rio Grande													T.									.13			T.		T.	T.				0.13
Carson Park	do																		.21	.13			.44										0.78
Chama	do			.15														T.															0.15
Cloudcroft	Pecos																																
Corona	do			T.																								.12	.38				0.50
Coyote	Rio Grande													T.													T.	.06	.09				0.15
Cundiyo	do														.07			.06	.12			.04	.04										0.33
Demonstration Farm	Pecos																																
Duran	do						T.							T.	.14					T.		T.	T.					T.	.16				0.30
Elk (near)	do																																
Escondido	Rio Grande						T.								T.	T.											T.						T.
Espanola	do																																
Estancia	do							.06										.34	1.16							.40							1.96
Fort Stanton	Pecos													.10	.17	.03			.45					.10				.05	T.				0.90
Fort Sumner	do																																
Gallinas	do													T.				T.															T.
Gallinas Ptg. Station	do									.42				*	.79	.09						.37						.06	.13				1.86
Harveys Upper Ranch	do						.17			.11				.76	.65	T.					T.	.06						T.	.17				1.92
Hillsboro	Rio Grande																																
Hodges	do	T.		T.								T.	T.	.25	.07			.12	.46	T.		T.	.10	T.		T.							1.00
Honda Reservoir	Pecos													.47	1.01														T.				1.48
Hope	do																																
Hopewell	Rio Grande																																
Jemes Springs	do	.04		T.		.01						.03	.01		.03				.01	.12	.10	.01							T.				0.36
Knowles (near)	Pecos													T.	.31															.20			0.51
Laguna	Rio Grande																T.				.15	1.80											1.95
Lagunita	Pecos	.02												*	1.05			T.															1.07
Lake Valley	Rio Grande													.14	.01	.02	.31			T.			.03				T.	.12	.03				0.66
Las Vegas	Pecos	.30													.54							.24											1.08
Liston	do														.18														.27				0.45
Los Lunas (near)	Rio Grande														T.		T.					.05						T.	T.					0.05
Los Tanos	Pecos																																
Magdalena	Rio Grande			1.25			T.					T.		T.	.05	T.	T.	.10	.10	.05						T.	T.	.12	.03				1.70
Mineral Hill	Pecos																																
Monterey	Rio Grande				T.									.02	T.		T.									.19			.15				0.36
Mountainair	do		T.							T.				T.	T.		T.	.34	T.		T.	T.	T.					.10	.02	T.			0.46
Newman	do															T.	T.							T.			.37						0.37
Noria	do													T.	.08	T.	.60																0.68
Orange	do																											.01					0.01
Orogrande	do	.20			T.										T.	.05												T.		T.			0.25
Oscura	do	.01		.03											.04																		0.08
Otis	Pecos													.68	.05	.24		T.											1.28				2.25
Otto	Rio Grande														.14							.59											0.73
Pastura	Pecos	.14													.82																		0.96
Picacho (near)	do																																
Plainview (near)	do																																
Red River Canyon	Rio Grande																					.60											0.60
Rincon	do	.35														T.	.13		T.				T.										0.48
Rio Grande Dam	do													.02	.25	T.		.02	.02							.06							0.37
Rosedale	do			T.			T.				T.				.01	.18	.10	.47	.14	T.	.04	.46	.04			.15	.10	.20	T.				1.89
Roswell	Pecos													.29	.05			.02											.08				0.44
San Marcial	Rio Grande																																
San Rafael	do																																
Santa Fe	do	T.					.01								.08			.25	.32	.08		.38											1.12
Santa Fe Canyon	do													T.	T.							T.											T.
Santa Rosa	Pecos	.07	.01											.06	1.11	.02						T.						.06					1.33
Socorro	Rio Grande	.04																		.24			.05				.06						0.39
Stanley	do																	.08				.29											0.37
Strauss	do															.07	.22										.09						0.38
Swastika Ranch	do	.07									.05				.25	T.	.02	.09		.49									T.	T.	T.		0.97
Taft	Pecos	.05												.05	.35	.10																	0.55
Tajique	Rio Grande									.15					.14				.50		.55	.05						.02	.18				1.59
Taos	do									.04			T.		T.			.04	T.	.06		.11				.01							0.26
Taos Canyon	do				.02								.05		.01			.60	.01		.08		.04			T.							0.81
Tecolote	do	.03													.08								.08					.20	.05				0.44
Three Rivers	do													T.	.04										T.				.09				0.13
Tijeras Canyon	do			.19											.25		T.	.10	T.									T.					0.54
Torrance	Pecos							.04																				.03	.04				0.11
Tres Piedras	Rio Grande	T.											T.					.20	.30	T.	T.	T.	.50										1.00
Truchas	do														1.00					T.		T.	T.										1.00
Tularosa	do													T.	.02												.19						0.21
Vaughn	Pecos	.14													.82																		0.96
Virsylvia	Rio Grande									.07											.02		.04										0.13
Winsors	Pecos							.10							.48				.09	.13		.07	.03										0.90
Texas.																																	
Abilene	Brazos					1.31	.08	.02						.15	.01			T.									T.		.06	.01			1.64
Albany	do					2.25	.79							T.	.03																		3.07
Anahuac	Coast	.30	.43		.18				.85	.86	.22	.85														.18	.12						3.99
Austin	Colorado					.06				.40			.19	.12	.08	T.	.28													.05			1.18
Ballinger‖	do						1.20	.10						.05	.17													.50		T.	T.		2.02

TABLE 2.—*Daily precipitation for September, 1910. District No. 8*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Cont'd.																																	
Barstow	Pecos					.46																						.23					0.69
Bay City‖	Colorado		.45				T.		T.		.95		.40	.25	.52										.60						.20		3.37
Beaumont‖	Neches		.03	.33	.31	.10	.08				.58		.07													.19				T.			1.69
Beeville‖	Coast	.46		.05			T.				.83		.18	.37	.19	.33						.04							.62		.70		3.77
Big Springs	Colorado	T.					.20							.13	.07												.02		T.	T.			0.42
Blanco‖	Guadalupe										T.			T.	T.	.36												.10					0.46
Boerne	San Antonio									.34			.16	.66														T.		.27			1.43
Booth‖	Brazos			.07				.10			.11				.04	.30																	0.62
Boquillas	Rio Grande											.03			.02	.02																	0.07
Bowie	Trinity					.82	.02																										0.84
Brazoria	Brazos																																‡3.03
Brazos‖	...do							.94																									0.94
Brenham‖	...do			.02		T.	.04				.28		T.	.38	.07	.57	.03														.29		1.68
Bridgeport‖	Trinity						.15	T.							.07	.07												T.					0.29
Brighton	Coast									.19				.55	6.83	.24														T.	T.		7.81
Brownsville	Rio Grande					.31			T.		T.			.11	5.18	3.96	.23	.22			.03	.67								T.		T.		10.71
Brownwood‖	Colorado						5.03	.25						.05	.12																.08		5.53
Cameron‖	Brazos	T.									.11				.45																		0.56
Carmona	Neches	T.	.61	T.		.16	T.			.07		.04	.18	.53	.02								T.	T.				T.		.25			1.86
Claytonville	Brazos						.10																										0.10
Coleman	Colorado					2.10	.25						.50	1.00													T.		.33	.30			4.48
College Station	Brazos					.05	T.			.02			.83	.18	.05													.37					1.50
Colorado	Colorado					.29						.03		.04															.54				0.90
Columbia	Brazos	.33	1.40		1.20					.72	.46	.16	.42	.27	1.15					T.								T.	.02		.03		5.16
Columbus‖	Colorado			.06			.06				.26			.48	.56	.22															.66		2.30
Comstock	Rio Grande																																
Corpus Christi	Coast		T.			.15	T.		T.	.37		T.	.08	.64	4.41	.10												.02	.32			6.09
Corsicana‖	Trinity						.12				.04			.39																			0.55
Crockett	...do		T.		T.	.04				.29			T.	T.									.05					.06		.48			0.92
Cuero‖	Guadalupe	.03		.01			.09	.36			.15		.16	.30	.11	.45																	1.66
Dallas‖	Trinity						2.48							.15																	T.		2.63
Danevang	Coast	.20								.45			.30	T.	.95														.35				2.25
Decatur	Trinity																																
Del Rio	Rio Grande	T.					.11							.16	.43	.01												T.	T.	.01			0.72
Devine	Nueces						T.						.38	T.	.16												.10	.16					0.80
Dialville	Neches						.05			T.			T.	.05									.40										0.50
Dilley	Nueces			1.00																											.02		1.02
Dublin‖	Brazos						2.78	.05						T.	.38																		3.21
Duval	Colorado					T.				.24	.19		.48	.04	.30		.78													T.			2.03
Eagle Pass	Rio Grande												T.	.25	.60	1.25										.50							2.60
Edna	Lavaca									1.90			.68	.40	.60							.40					.70						4.68
El Paso	Rio Grande													.07	T.	T.	.09									T.			.08				0.24
Encinal	Nueces	.28								.40			.30	.05		.06																	1.09
Fairland	Colorado						T.			.11			.42	.06	.17	T.	T.												.43				1.19
Falfurrias	Coast						.30				.30				3.00	.48													T.		T.		4.08
Flatonia	Guadalupe	T.	.06			T.	T.			.11	.17	T.	.70	.60	.15													T.		T.			1.79
Flint	Neches					T.				T.			.72	T.								.02						.30		.12			1.16
Fort Clark‖	Rio Grande						T.			T.			.10	T.	.15													.40	.05	.12			0.82
Fort McIntosh	...do										.35				.72	.40																	1.47
Fort Stockton	Pecos			T.				T.						T.	.05	.05										T.		T.	1.00				1.10
Fort Worth	Trinity					.63	1.23						T.	.34																.01	T.		2.21
Fredericksburg	Colorado												T.	.72					T.										1.09		.39		2.20
Gainesville	Trinity						1.33																				.02						1.35
Galveston	Coast	.47	.65		.14		.01		.04	1.05		.30	.35	.23	1.27					.23													4.74
Gatesville	Brazos												.40	.10																			0.50
Georgetown‖	...do						.13				.08			.76	.06		.06																1.09
Gonzales‖	Guadalupe	1.12	.13					.06			.13			.26	.14	.18													.72	.24			2.98
Graham	Brazos					.85	.15	.06						.10																			1.16
Grand Saline	Sabine					.22			T.	.38				T.								.08								.08	T.		0.76
Grapevine	Trinity						3.05																										3.05
Greenville‖	Sabine						.80																										0.80
Hallettsville	Lavaca	T.	T.		T.	T.	T.			.10	.11		T.	.14	.35													.32		T.			1.02
Harper	Colorado												.40	.35	.18													.13					1.06
Haskell	Brazos					.15																											0.15
Hebbronville	Coast									.50					2.25	.70																	3.45
Hempstead‖	Brazos		.25		.10						T.			.10	.20	T.													T.				0.65
Henderson	Neches					.10	.03						T.	T.									.41					.24		.30			1.08
Hewitt	Brazos					.21							.03		.01																		0.25
Hillsboro	...do						1.57																										1.57
Hondo	Nueces									.05	.10		.10	.20	.28													T.	T.				0.73
Houston	Coast	.01	.32		T.	.05	.01		T.	.29	.01	.02	.02	.07	.14	.05											T.	.05					1.04
Huntsville‖	Trinity										.89			.48	.72	T.																	2.09
Jayton	Brazos																																0.00
Jewett‖	Trinity					.12	.40				.35			.17	T.																T.		1.04
Junction	Colorado						.30							.55	.20	.20												.70		1.00			2.95
Kaufman	Trinity					T.	T.			.40		T.	.16																	T.			0.56
Keene	Brazos																																
Kerrville‖	Guadalupe										.28			.12	.05	.10	.25			.10										.05			0.95
Knickerbocker	Colorado	T.					.97						T.	.20	.07					T.							T.		1.18	.23			2.65
Kopperl‖	Brazos						3.80								T.																T.		3.80
Lagrange	Colorado		.09				T.			.10	.20			.12	.22													T.					0.73
Lamesa	...do				.08									.17	.08														.76				1.09
Lampasas‖	Brazos	T.									T.			.11	.03															.18			0.32
La Parra	Coast														7.75																		7.75
Laureles Ranch	...do					.97		.10							5.79	.28												.40			.35		7.89
Liberty‖	Trinity		.47	T.	.35	.12	T.	.10	T.		.93		T.	T.	.30	T.													.50				2.77
Llano	Colorado												.03	T.	.01														.02				0.06
Llano Grande‖	Rio Grande		.20				.10								3.10	1.90																	5.30
Long Lake‖	Trinity						.10	.40						.08																	.52		1.10
Longview‖	Sabine						.07	.30						.07										.09							.18		0.71
Lufkin	Neches	.43	.20			.39	T.			.20			.08										.25							.38			1.93
Luling‖	Guadalupe	.08	T.	T.			T.				.37	T.		1.15		.18													.15		.03		1.96
Marathon	Rio Grande				.01										.40	.20									.20		.25	.25	.02				1.33
Marble Falls‖	Colorado						T.				.14			.54	.24	.18														.30			1.40
Marfa	Rio Grande															.20													.30				0.50
Marshall	Sabine					.02																.02					T.	.15					0.19
Matagorda	Coast												.64	.80	2.20																		3.64
Mexia‖	Brazos			T.			T.	T.			T.			1.10	.08																		1.18
Midland	Colorado					2.50								.75															.10				3.35
Mission	Rio Grande			T.	.08	T.	.09				.60	T.		T.	5.65	.88	T.			.78		T.						T.			.12		8.20
Mont Belvieu	Coast	T.	.09	T.						.25	1.13	.68	.06		.03	.03													.53				2.80
Mountain View	Pecos			.19	T.	T.		T.						T.		.07												.15	T.				0.41
Mount Blanco	Brazos																																0.00
Nacogdoches‖	Neches			.23			.18				T.			T.	T.									.38					.15		T.		0.94

TABLE 2.—*Daily precipitation for September, 1910. District No. 8*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Cont'd.																																	
New Braunfels	Guadalupe																																
Palestine	Trinity		T.			.05	T.						T.	.23									.17					.56		.06	.06		1.13
Panter	Brazos						1.30	1.31					.26	.03																.04			2.94
Pearsall	Nueces									.23					.08													.23	.06				0.60
Pierce	Colorado	.33	.09						.22	.68	.33		.70	1.06															.97				4.38
Plainview	Brazos	T.													.06							T.							T.				0.06
Port Lavaca	Coast	.05	T.		T.	T.				.39					1.28	.55	T.																2.27
Post City	Brazos					.38																											0.38
Ricardo	Coast		.10			T.	.22				.18	.09			4.41	1.21														.05	.72		6.98
Riverside‖	Trinity										.60			T.	.95														.52				2.07
Robert Lee‖	Colorado						2.05	.13						.15	.14													.06					2.53
Rockland‖	Neches		1.22									1.42			.49												.14						3.27
Rossville	Nueces												.76		.15													T.					0.91
Runge	San Antonio										.97				.56																		1.53
Sabinal	Nueces									.04	.10		.40		.10					.37								.04	.13	.52			1.70
Salado	Brazos												.08																				0.08
San Angelo	Colorado						1.50	.10					T.	.20													.20	.02		.17			2.19
San Antonio	San Antonio					.03				.04	.02	T.	.02	T.	.43													.02					0.56
San Augustine	Neches	1.67	.38	T.	.08					T.		T.	T.	.28									.48	T.						T.			2.89
San Juanito	Coast						.05				.22				.40	.30						.12											1.09
San Marcos‖	Guadalupe	.26									.65					.45																	1.36
San Saba	Colorado												.26	.52	.04						.05								.04		.04		0.95
Santa Gertrudes‖	Coast													.90	2.00	1.50															.85		5.25
Seymour	Brazos					T.	T.							.03													.08			T.			0.11
Sligo	Colorado																																
Somerville	Brazos					T.					.05		T.															.06					0.11
Sonora	Rio Grande						1.87						.03	.19	.20														.66	1.12			4.07
Sugarland‖	Brazos																																
Sutherland Springs	San Antonio									.22	.08				.10													.02					0.42
Taylor	Brazos	.34				.04	.06			.32	.18		1.74	.01	.26																		2.95
Temple‖	...do						.06							.47	.05															1.02			1.60
Theodore	Pecos													.04																			0.04
Thurber	Brazos						1.01																										1.01
Tilden	Nueces									.32			T.	.48	.60						.17							T.	T.				1.57
Tivoli	Guadalupe					.30				2.25		.24	.26	.72	.65												.30						4.72
Uvalde	Nueces									.24			T.	.13	.14					T.									.65	.14			1.30
Valley Junction‖	Brazos						.30	.44								.72													.12				1.58
Victoria‖	Guadalupe					.65				1.30			1.10		.60						.32												3.97
Waco‖	Brazos						T.							.12																T.			0.12
Waxahachie‖	Trinity						1.46								T.																T.		1.46
Weatherford‖	...do						2.63	T.						.03	T.																		2.66
Wharton‖	Colorado		.51			.04					.44			.35	.29	.30														.04			1.97
Wills Point	Sabine	T.						T.	T.	1.56												T.								.10	.40		2.06
Zapata	Rio Grande	.83								2.30			.95	.25	.77	2.02	.13																7.25

TABLE 3.—*Maximum and minimum temperatures at selected stations, September, 1910. 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	37	78	42	90	64	93	64	77	50	74	48	76	49	90	63	73	51	89	57	94	73	98	66	91	75	86	78
2...	83	38	77	41	95	63	99	65	83	49	75	54	82	52	93	59	80	52	93	58	98	77	97	72	90	75	86	79
3...	78	45	75	44	98	65	104	64	85	47	55	55	78	60	96	61	80	54	94	58	98	78	104	75	90	78	87	79
4...	78	39	72	44	93	70	97	64	78	48	76	54	80	54	92	65	76	51	90	67	99	77	103	76	89	76	86	80
5...	75	35	75	33	94	62	99	65	80	48	76	48	80	59	89	59	77	47	87	58	94	70	98	75	88	74	86	76
6...	79	28	75	35	95	62	94	62	80	48	77	45	82	53	88	56	77	55	90	53	78	68	98	64	90	78	85	81
7...	83	34	78	39	93	62	95	62	87	48	78	56	82	54	92	62	78	53	94	59	87	73	90	70	89	75	85	80
8...	83	30	82	33	95	62	97	63	86	48	78	56	83	56	94	61	83	54	88	56	92	70	95	69	89	72	86	79
9...	82	36	82	45	92	64	94	53	82	48	80	48	81	53	87	58	77	53	88	52	88	66	92	66	89	73	91	70
10...	86	36	78	45	94	60	98	63	87	45	91	54	82	57	95	56	81	53	95	52	91	61	97	62	88	69	87	71
11...	80	35	76	47	95	61	101	57	86	45	81	55	84	61	95	60	80	52	85	62	96	71	98	68	90	70	86	75
12...	79	33	73	42	93	55	96	59	82	44	82	53	82	57	90	56	70	56	85	57	90	71	92	66	89	70	86	76
13...	80	35	77	41	84	64	90	62	74	47	77	46	76	51	78	57	73	54	83	55	87	69	84	64	89	74	82	73
14...	75	38	74	38	83	63	81	66	70	55	72	52	70	56	75	62	68	55	80	62	86	68	88	67	78	72	79	73
15...	77	40	77	47	78	68	81	62	71	53	78	54	69	54	79	60	73	56	80	59	90	68	90	64	82	71	84	76
16...	75	40	73	39	74	61	87	60	75	47	77	48	62	52	82	57	70	48	82	53	92	69	94	68	86	73	86	76
17...	78	41	77	39	83	61	91	64	.....	.....	65	52	67	52	75	62	71	51	84	57	94	71	98	64	87	74	88	74
18...	80	42	82	39	89	59	89	65	79	45	79	50	74	50	88	60	75	52	88	54	95	70	97	64	86	70	84	78
19...	80	48	75	40	90	59	90	59	78	46	85	51	76	54	87	54	74	52	90	54	95	69	96	62	85	70	86	73
20...	80	44	77	45	91	60	94	32	85	45	90	48	77	52	90	54	79	53	93	53	96	71	101	65	89	70	86	76
21...	79	46	76	40	93	57	92	64	86	48	85	54	75	52	92	55	75	54	94	57	94	70	94	67	86	71	83	76
22...	78	38	77	45	93	69	96	61	84	49	86	49	79	52	92	64	75	51	91	58	93	71	95	70	85	70	85	74
23...	74	32	74	30	94	56	97	60	82	48	88	48	79	56	88	63	74	43	86	57	92	68	97	65	90	70	86	73
24...	70	30	74	34	94	55	98	58	86	42	86	40	79	52	86	56	75	45	90	51	92	66	97	67	88	72	86	75
25...	73	33	73	34	89	69	95	58	81	40	84	50	73	53	90	54	74	47	89	50	93	71	97	70	87	74	85	75
26...	76	32	76	33	90	64	86	58	78	48	82	49	76	51	75	56	73	49	79	52	90	62	90	68	89	74	86	76
27...	78	39	76	31	88	56	85	59	78	45	77	43	74	47	79	54	73	46	85	49	84	56	90	55	89	72	88	76
28...	74	28	77	30	87	60	82	59	76	42	82	44	70	46	83	53	71	47	84	46	88	63	92	64	89	71	86	75
29...	78	30	76	32	88	53	85	55	80	39	71	38	77	47	83	52	74	45	88	51	84	62	85	60	89	72	85	75
30...	76	32	76	31	90	48	97	54	85	39	78	40	79	56	90	49	75	47	90	54	90	64	97	62	91	72	86	75
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	78.1	36.2	76.3	38.6	90.3	61.1	92.8	60.9	80.7[a]	46.4[a]	79.5	49.4	76.8	53.3	87.1	57.9	75.4	50.9	87.8	55.4	91.3	68.8	94.8	66.5	87.9	72.6	85.6	75.8

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...	95	72	91	69	93	78	92	64	94	76	86	77	96	74	91	74	99	68	96	76	91	59	92	72	98	69	96	73
2...	97	77	94	70	98	77	102	69	97	79	82	76	94	74	86	75	96	68	94	74	95	62	94	75	101	72	96	73
3...	97	79	97	68	99	80	104	76	97	78	87	82	95	75	92	76	96	68	95	76	99	66	95	76	102	78	95	77
4...	96	77	91	72	99	80	102	75	96	77	87	77	95	74	91	75	96	68	94	74	98	65	94	76	101	80	94	76
5...	98	79	94	70	97	80	99	75	94	68	88	82	96	74	91	76	96	68	93	74	90	68	92	77	90	71	90	74
6...	87	79	93	72	99	80	88	66	88	68	87	82	94	75	91	76	95	68	92	75	89	56	90	76	84	70	90	74
7...	93	76	92	68	98	80	93	68	91	75	87	82	97	71	94	74	98	68	96	74	92	61	94	75	92	72	96	74
8...	94	74	92	66	98	78	96	76	93	74	88	82	97	72	93	76	99	68	96	74	95	59	95	73	98	68	95	72
9...	96	71	90	68	101	76	94	60	95	70	91	68	99	73	96	68	99	72	96	76	85	54	98	71	87	65	98	65
10...	94	66	93	66	99	72	101	61	92	67	82	73	94	69	89	70	99	68	93	72	95	51	97	68	94	59	94	66
11...	97	70	94	67	95	76	102	64	92	73	84	75	94	69	86	70	95	67	93	71	101	64	93	69	101	71	93	70
12...	93	73	93	67	95	76	94	65	87	71	82	74	92	73	87	74	90	69	90	71	94	62	90	70	94	67	88	68
13...	91	70	83	66	92	76	86	65	90	71	80	73	88	73	85	71	92	70	90	70	86	57	89	70	90	66	88	70
14...	84	69	82	65	83	76	83	65	92	71	82	70	84	73	85	71	93	63	92	70	82	54	85	69	91	68	87	68
15...	87	69	73	66	83	74	82	60	88	69	84	76	90	72	91	72	91	68	90	70	86	59	90	70	90	68	90	68
16...	91	66	74	64	94	74	88	57	91	67	86	74	92	72	90	69	93	63	91	66	90	55	93	70	97	64	92	71
17...	94	66	84	63	97	74	93	57	91	68	82	74	94	68	89	69	92	62	90	64	91	55	95	69	98	69	96	67
18...	94	68	89	65	94	72	96	60	92	68	82	77	92	70	87	69	93	59	90	64	92	56	92	70	98	75	92	70
19...	95	72	90	64	96	70	97	59	93	68	83	72	91	65	88	63	93	52	92	66	96	58	92	71	98	65	92	69
20...	94	69	90	61	96	69	96	65	94	67	83	77	92	67	90	68	96	57	93	66	97	55	93	67	100	64	94	65
21...	96	70	92	62	95	75	95	60	92	71	85	77	93	69	90	66	97	63	94	69	94	55	92	72	98	68	93	69
22...	92	70	92	67	96	72	97	60	94	73	85	75	94	64	92	67	95	63	94	71	92	59	91	67	98	66	92	66
23...	93	68	93	67	96	74	98	62	93	71	85	79	93	67	91	70	95	63	93	70	91	63	90	66	96	72	91	66
24...	94	69	92	65	96	74	97	65	92	71	84	78	94	67	90	69	95	65	91	70	90	50	92	68	94	64	92	67
25...	94	70	85	72	96	74	103	64	93	72	83	76	94	67	92	70	95	65	92	71	95	60	92	70	98	67	93	69
26...	94	70	89	68	96	74	96	68	93	67	85	79	95	68	88	72	95	65	92	71	88	55	93	72	83	63	93	70
27...	96	70	88	63	96	74	94	57	88	61	88	77	93	70	92	69	96	65	93	66	84	45	90	71	82	55	92	71
28...	95	66	87	62	96	74	85	61	88	64	83	75	92	68	91	67	94	62	90	64	88	52	91	67	89	57	91	68
29...	92	68	87	59	95	74	89	59	89	67	84	77	93	69	91	70	94	68	90	67	85	53	91	68	91	60	91	71
30...	94	68	89	60	97	74	96	58	91	69	85	78	91	68	91	70	94	66	92	66	93	55	91	68	94	62	92	66
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	93.6	71.0	89.1	66.1	95.7	75.2	94.6	63.8	92.0	70.4	84.7	76.5	93.3	70.3	90.0	70.9	95.0	65.3	92.6	70.3	91.5	57.4	92.2	70.8	94.2	67.2	92.5	69.1