CLIMATOLOGICAL DATA FOR APRIL, 1913.

DISTRICT NO. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

Moderately warm weather prevailed during the month, except in Arkansas, Louisiana, and in the Mississippi and Tennessee areas, where it was comparatively cool. There were three periods with well-distributed precipitation, viz, 2d to 4th, 7th to 10th, and 18th to 26th. The amounts were above normal generally east of the ninety-third meridian and at many stations west of the ninety-ninth meridian.

The following table summarizes the chief features of meteorological interest in the various portions of the district.

States and portions of States lying within district No. 7.	Mean temperature.	Departure from the normal.	Mean precipitation.	Departure from the normal.	Greatest precipitation in 24 hours.	Mean snowfall.	Number of days.				Prevailing direction of wind.
							With 0.01 or more.	Clear.	Partly cloudy.	Cloudy.	
Colorado	46.6	+ 0.7	1.58	− 0.52	1.28	16.0	6	16	8	6	w.
New Mexico	50.2	− 1.9	1.98	+ 0.54	2.61	3.3	5	16	9	5	sw.
Texas	59.9	+ 0.7	2.15	− 0.69	2.25	0.4	3	21	4	5	s.
Kansas	57.9	+ 2.0	1.40	− 1.11	1.90	0.1	4	17	6	7	s.
Oklahoma	61.2	+ 1.4	1.89	− 1.35	3.13	T.	3	19	6	5	s.
Missouri	57.5	+ 1.0	3.31	− 0.93	3.90	T.	7	17	5	8	s.
Tennessee	59.2	− 0.6	5.40	+ 0.65	3.80	0	8	17	3	10	s.
Arkansas	61.2	+ 0.1	4.91	+ 0.53	9.58	0	6	17	6	7	s.
Mississipi	62.1	− 1.8	5.85	+ 1.50	4.20	0	6	18	5	7	s.
Louisiana	65.0	− 2.1	5.65	+ 1.48	6.75	0	4	20	4	6	n.

TEMPERATURE.

Mean temperatures ranged from 0.6° to 2.1° below the normal in Louisiana and in the Mississippi, Tennessee, and New Mexico areas; elsewhere there was an excess ranging from 0.1° to 2.0°. The lowest temperatures were above zero, except in Colorado, but were below freezing in all States and areas except the Tennessee area. The highest temperature recorded, 100°, occurred at Reserve, La., on the 2d, and temperatures above 90° were recorded in all States and areas except in the Colorado, New Mexico, and Tennessee areas. The lowest temperature recorded was zero, at Lake Moraine, Colo., on the 24th.

PRECIPITATION, BY DRAINAGE AREAS.

Arkansas River and tributaries.—The precipitation was above the normal over the upper and lower portions of this drainage area, and generally deficient over the central portion. In Colorado the average from 36 stations was 1.56 inches, about 0.6 inch above the normal. Over those portions of the Arkansas Valley proper that lie in Kansas and Oklahoma, the average from 43 stations was 1.74 inches, about 0.9 inch below the normal. In New Mexico the average from 41 stations in the Canadian Valley was 2.00 inches, about 0.9 inch above the normal. Over those portions of the Canadian Valley that lie in Texas and Oklahoma the average from 31 stations was 1.68 inches, about 1.3 inches below the normal. The amounts from 20 stations in the Cimarron Valley averaged 1.78 inches, about half an inch below the normal amount. Over the Verdigris Valley the precipitation was light, the average from 10 stations being 1.00, about 2.0 inches below the normal. Over the Neosho Valley the average from 18 stations was 1.84 inches, about half the normal amount. Below the Oklahoma-Arkansas line the precipitation from 16 stations over the Arkansas Valley proper averaged 5.19 inches, being about 1 inch above the normal.

Red River and tributaries.—The precipitation was unevenly distributed over this drainage area. The average from 45 stations in those portions of the Red River Valley that lie in New Mexico, Texas, and Oklahoma was 2.07 inches, about 1.4 inches below the normal. Below the Texas-Arkansas line the average from 20 stations in the Red River Valley was 6.03 inches, about 0.8 inch above the normal.

Mississippi River south of St. Louis and small tributaries.—The precipitation was deficient over the upper and excessive over the lower portion of this drainage area. In the immediate Mississippi Valley the average from 39 stations was 4.98 inches, about 0.3 inch above the normal. The average from 23 stations in the valley of the White was 4.04 inches, about half an inch below the normal. Over the Yazoo Valley the average from 22 stations was 5.37 inches, about 1.0 inch above the normal. In the valley of the Big Black the average was 6.33 inches, about 2.2 inches above the normal. In the Ouachita Valley the average from 18 stations was 6.09 inches, about 1.6 inches above the normal.

Louisiana coastal plain.—The precipitation was unevenly distributed over this area, the average from 36 stations being 5.06 inches, about 1.5 inches above the normal.

SNOWFALL.

Snow occurred generally over the Colorado and New Mexico areas where the amounts were heavy in some localities. Light snow, the amounts seldom exceeding a trace, occurred over the greater portion of the Kansas area and over the Texas panhandle and northwestern Oklahoma.

RIVERS.

All rivers in Oklahoma continued below the normal and changes were slight, except that there was a moderate rise on the 9th in all streams following the general rain of the 8th.

Changes in the upper Arkansas River were slight, but heavy rains on the 8th and 9th in the lower watershed of the Arkansas Valley caused a marked rise in the river.

At Little Rock there was a rise of 9 feet between the 8th and 13th to a maximum stage of 17.3 feet. After the 13th there was a steady fall during the remainder of the month. The Arkansas at Little Rock and below that place was navigable throughout the month.

Relatively high stages prevailed in the White River from Newport to its mouth during the first three weeks of April.

Moderately low stages prevailed in the Red River and only a few unimportant changes occurred during the month.

There was a sudden rise of 18.5 feet in the upper Ouachita from the 10th to 15th, giving a maximum stage of 36.5 feet at Camden on the latter date. The lower Ouachita continued relatively high with stages generally 33 to 36.9 feet.

High water prevailed in the lower Mississippi River during the month. The flood stage was passed at Memphis on the 1st; Helena on the 1st; Arkansas City on the 5th; Vicksburg on the 8th; Natchez on the 11th; Baton Rouge on the 14th; Donaldsonville on the 15th; and New Orleans on the 17th. The highest stages in feet and tenths were as follows: Memphis, 46.5 on the 10th; Helena, 55.2 on the 22d; Arkansas City, 55.1, 21st to 25th; Vicksburg, 52.3, 27th and 28th; Natchez, 52.4, 26th and 27th; Baton Rouge, 41.1 on the 28th; Donaldsonville, 32.6 on the 28th; and New Orleans, 20.2 on the 26th. Water from crevasses in Arkansas, one in Mississippi, and one in Louisiana above the mouth of Red River, overflowed considerable areas and caused much damage. Full reports on these floods will appear at a later date.

DESTRUCTIVE RAINSTORM OF APRIL 8-9, 1913, IN ARKANSAS.

By HENRY F. ALCIATORE, Section Director.

Torrential rains fell in parts of Arkansas on the 8th and 9th of April, 1913, and in many localities all previous records of excessive 24-hour falls were broken. At Little Rock, in the center of the State, more than 9 inches of rain occurred in less than 21 hours. Small streams overflowed their banks, and thousands of acres of farming lands were submerged. Many people were driven from their homes; scores of bridges and culverts were washed away; and in some sections planting, which was well advanced, will have to be done over again. Serious washouts on the Iron Mountain and the Rock Island roads out of Little Rock tied up railroad trains for several days; county roads were rendered impassable, and many rural carriers were prevented from delivering mails. No lives were lost, but property losses were very large, probably exceeding half a million dollars. The railroads were the greatest sufferers, much damage having occurred on the roads between Little Rock and Hot Springs.

WEATHER CONDITIONS.

In that part of the State where the greatest precipitation occurred the rains began during the evening of the 8th. The weather map of that date shows that at 8 a. m., seventy-fifth meridian time, about 11 hours before the rainstorm began at Little Rock, an extensive low-pressure area, central over the Texas panhandle, with lowest barometer reading 29.64 inches, at Amarillo, occupied the southern Rocky Mountain region, Texas, Louisiana, Arkansas, Oklahoma, and Kansas. Freezing or lower temperatures prevailed in the northwestern quadrant of this low, while in the eastern and southern quadrants the temperature ranged from 56° to 70°. In Arkansas the winds were easterly to southerly, and the temperature was several degrees above the normal.

Twenty-four hours later the storm had moved to northwestern Arkansas, and appeared to be central near Bentonville, where the pressure was 29.72 inches. Meantime, a secondary depression had developed over the Rio Grande Valley, the barometer reading at Del Rio, Tex., being 29.72 inches, the same as that recorded at Bentonville, Ark. The weather continued warmer than usual in Arkansas, and the winds, which were light, were blowing from the south and east.

By the morning of the 10th, the Arkansas storm area had moved into Iowa, while the Texas disturbance had disappeared to the southward.

THE STORM AT LITTLE ROCK, ARK.

The most remarkable rainfall recorded at Little Rock during any 24-hour period since observations were begun by the Weather Bureau in 1879 was that which occurred on April 8 and 9, 1913. All previous records for heavy rainfall were broken, and the damage resulting from the storm within the city limits was approximately $25,000.

Rain began to fall at 6.20 p. m. of the 8th, and with the exception of one 35-minute interval, there was a continuous downfall until 3 p. m. of the 9th. During the first downpour, an excessive rate was maintained from 2.36 to 5.37 a. m. of the 9th, the amount of rain recorded during this period (3 hours and 1 minute) being 4.48 inches; while the total amount for the entire period, from 6.20 p. m. of the 8th to 7.10 a. m. of the 9th (12 hours and 50 minutes) was exactly 6 inches. This amount is almost 1½ inches more than the normal rainfall for the entire month.

The second rain began at 7.45 a. m. and lasted till 3 p. m. The fall was at an excessive rate from 8.41 a. m. to 12.22 p. m., the amount registered during that period (3 hours and 41 minutes), being 3.14 inches, while the total amount recorded was 3.58 inches. The actual duration of the rain in this extraordinary storm was 20 hours and 5 minutes. During that time the quantity of rain registered by the Weather Bureau self-recording rain gage on the roof of the Southern Trust Building (132 feet above the street) was 9.58 inches. It is probable that the rain that fell upon the ground, in open spaces, exceeded 10 inches during the same period.

As to intensity of fall, the gage readings show that the greatest amount of rain recorded in any 5-minute period was 0.27 inch; in 10 minutes, 0.48 inch; in 15 minutes, 0.63 inch; in 30 minutes, 1.09 inches. The greatest amount recorded in 1 hour was 1.83 inches; in 2 hours, 3.23 inches, and in 3 hours, 4.43 inches.

Prior to April, 1913, the two greatest 24-hour falls recorded in this city were, 6.33 inches on May 9–10, 1882, and 6.22 inches on July 30–31, 1902.

Thunder of moderate intensity was heard occasionally from 6.31 p. m. of the 8th till 3.50 p. m. of the 9th, the last peal having occurred 50 minutes after the cessation of the rain.

The table below shows the quantity of rain recorded during the storm at regular and cooperative stations of the Weather Bureau, where the amount of precipitation for the entire storm equaled or exceeded 4 inches in 24 or 36 hours:

TABLE 1.—*Climatological data for April, 1913. District No. 7, Lower Mississippi Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Colorado.																				
Buena Vista	Chaffee	7,955	13	40.3	+ 1.1	68	27†	2	9	48	1.10	+ 0.40	0.75	9.5	5	21	6	3	w.	C. A. Short.
Calhan	El Paso	6,700	6	45.4		74	28	15	11†	42	1.10		0.85	13.3	4	19	6	5	sw.	H. B. Rice.
Canon City	Fremont	5,343	25	52.4	+ 1.1	81	27†	25	4†	43	0.91	− 0.60	0.54	T.	6	20	4	6	ne.	U. S. Weather Bureau.
Colorado Springs	El Paso	6,098	33	46.2	+ 1.3	72	29	16	4	38	0.85	− 0.73	0.52	5.7	8	13	10	7	n.	Colorado College.
Cripple Creek	Teller	9,396	12																	F. G. Willis.
Cuchara Camps	Huerfano	8,200	4								2.57		1.01	30.5	8	18	7	5	sw.	George A. Mayes.
Eads	Kiowa	4,209	6	49.6		78	16†	28	5	42	1.90		1.10	8.0	2	22	4	4	n.	Mrs. Mattie A. Kerr.
Fairview	Custer	9,500	4								4.40			55.0	5	14	9	7	e.	Elizabeth L. Grey.
Fremont Exp. Sta	El Paso	8,850	3	36.6		61	28†	10	3†	35	2.06		1.02	19.1	11	15	3	12	w.	U. S. Forest Service.
Garfield	Chaffee	9,510	3								2.10		0.58	19.0	7	20	6	4	w.	Lloyd N. Felton.
Hamps	Elbert	5,400	20	45.6	+ 0.3	78	28†	9	11	48	1.46	− 0.56	0.70	11.0	7	13	6	11	s.	W. Hamp.
Hermit Lake	Custer	10,000	3								3.63		1.20	50.0	7	18	3	9	sw.	John E. Graham.
Hoehne (near)	Las Animas	5,700	21	49.0	+ 0.4	81	28	17	4	48	1.13	− 0.51	0.90	11.0	4	19	6	5	w.	S. W. De Busk.
Holly	Prowers	3,380	18	54.4	+ 1.2	86	30	18	4	50	0.22	− 1.46	0.13	0.0	4	15	14	1	se.	Holly Sugar Co.
La Junta	Otero	4,052									1.79		0.84	0.0	5	16	7	7	w.	S. H. Miller.
Lake Moraine	El Paso	10,265	19	32.9	+ 0.5	54	16†	0	24	35	1.89	− 1.40	0.61	42.5	9	14	6	10	sw.	Clyde C. McReynolds.
Lamar	Prowers	3,592	23	55.3	+ 1.6	89	28†	19	4	48	1.45	− 0.41	0.74	0	4	20	5	5		J. T. Lawless.
Las Animas	Bent	3,899	45	52.0	+ 0.8	85	30	19	3	47	1.92	+ 0.60	1.25		4	12	10	8	n.	American Beet Sugar Co.
La Veta Pass	Costilla	9,000	3								1.40		0.74	20.0	2	20	6	4	w.	Clara M. Wright.
Leadville	Lake	10,248	17	31.8	− 0.2	63	14	6	24	42	1.29	− 0.26	0.47	11.6	9	11	12	7	w.	U. S. Weather Bureau.
Limon (near)	Elbert	5,360	6	45.8		79	28†	6	11	49	0.80		0.75	8.0	2	17	4	9	s.	F. L. Palmer.
Madrid	Las Animas	6,361	3								1.25		0.87		8					Thomas Sawers.
Marshall Pass	Saguache	10,846	10								1.63		0.78	17.0	6	7	11	12		W. L. Williams.
Maxey	Baca										1.90		0.55	4.0	4	16	6	8	ne.	L. H. Alberti.
Monument	El Paso	7,200	2	41.4		71	27†	11	4	55[b]	1.46			15.0	6	16[a]	6[a]	7[a]	w.	U. S. Forest Service.
North Lake	Las Animas	8,700	21								2.63	+ 0.09	1.14	28.0	7	23	3	4	nw.	James W. Ingmire.
Pueblo	Pueblo	4,734	25	50.8	+ 0.3	82	28	21	4	44	0.47	− 0.96	0.45	T.	3	14	10	6	nw.	U. S. Weather Bureau.
Rocky Ford (near)	Otero	4,177	24	51.9	+ 0.2	84	29†	21	4	49	1.65	+ 0.08	1.28	8.0	3	12	13	5	e.	P. K. Blinn.
St. Elmo	Chaffee	9,500	4								1.25		0.42	18.0	6	18	6	6	sw.	Daniel Clark.
Salida	do	7,035	14	44.8	+ 1.1	72	28	13	4	45[b]	1.01	− 0.66	0.82	5.5	3	22	4	4	sw.	M. D. L. Buell.
Santa Clara	Huerfano	8,252	18																	Lincoln G. Morris.
Sheridan Lake	Kiowa	4,065	11																	Howard Gamble.
Stonewall	Las Animas	8,000	7								1.88		1.01	23.0	6	14	7	9	e.	G. A. Storz.
Trinidad	do	5,994	17	48.9	− 0.5	77	28	18	24	40	1.43	− 0.35	0.80	14.1	8	6	15	9	sw.	Walter Dearden.
Two Buttes	Baca	4,100	2	52.6		84	28†	17	4	50	1.63		0.64	5.0	5	14	11	5	sw.	N. G. Jones.
Two Buttes Reservoir	do	4,250									2.09		0.79		6	15	8	7	nw.	Walter J. Krohne.
Victor	Teller	10,100	9	36.2		60	28	6	24	31	0.85		0.34	12.0	6	16	10	4	w.	Fred Jones.
Vilas	Baca	3,935	22								2.05	+ 0.05	0.75		5	9	16	5	sw.	David Konkel.
Westcliffe	Custer	7,864	19																	Zack Jordan.
Winfield	Chaffee	9,765	3								1.05		0.54	16.0	9	10	18	2	w.	John G. Payne.
Woodman Sanatorium	El Paso		2	46.6		73	28	15	10	37	1.11			3.6	6	19	4	7	nw.	Woodman Sanatorium.
Wortman	Lake	11,250	12								1.05	− 2.09	0.20	21.2	9	5	11	14	nw.	George C. Wortman.
Yoder	El Paso		2								1.09		0.70	6.0	5	18	6	6	sw.	J. E. Bingham.
New Mexico.																				
Abbott	Mora	5,771	4			84	17	25	4		2.44		0.78	2.0	7	18	7	5	s.	Agent E. P. & S. W. R. R.
Albert	Union	4,700	23	53.2	− 2.5	85	17	24	4	43	2.84	+ 1.61	1.06	0.2	4	15	6	9	w.	Martin De Smet.
Aurora	Colfax	8,849	4								0.99		0.40	11.0	7	2	23	5	nw.	Miss J. Lucero.
Bell Ranch	San Miguel	4,500	14	54.0		86	16†	15	24	52	3.80	+ 2.18	1.35	7.0	4	17	9	4	w.	C. M. O'Donel.
Black Lake	Colfax	8,348	4								0.54		0.28	4.1	5	5	23	2	w.	Ralph T. Martinez.
Cabeza	San Miguel	5,406	4								2.72		1.00	8.0	4	14	8	8	sw.	Agent E. P. & S. W. R. R.
Campana	do	4,493	4	55.4		88	17	24	4	48	2.61		1.17	4.0	5	18	7	5	sw.	Do.
Chacon	Mora	9,000	4								0.71		0.49	3.5	2	9	19	2	w.	Alfredo Lucero.
Cimarron (near)	Colfax	6,385	9	47.6		77	28	19	10	48	1.19		0.42	4.5	6	13	10	7	e.	Wm. French.
Clayton	Union	5,178	8	53.6		88	17	23	10	49	2.94		1.22	T.	6	15	12	3	sw.	Dr. N. E. Charlton.
Clovis	Curry	4,129	2																	John N. Barry.
Cuervo	Guadalupe	4,849	4	57.0		86	17	31	4†	43	2.00		0.85	0	3	16	2	12	sw.	Agent E. P. & S. W. R. R.
Dawson	Colfax	6,396	4	48.2		82	28	20	4†	48	0.68		0.40	2.0	4	16	7	7	s.	Do.
Elizabethtown	do	8,465	8	38.0		68	16	5	24	47	0.56		0.22	4.5	4	15	9	6	w.	Miss M. Carrington.
Folsom	Union	6,399	13	46.8	− 0.5	77	28	16	4	44	1.42	− 1.10	0.60	7.5	7	18	6	6	sw.	David Rope.
Fort Union	Mora	6,835	53	45.4	− 2.1	77	17	15	4†	50	0.98	+ 0.09	0.38	T.	3	23	5	2	w.	M. C. Needham.
Hayden	Union	4,444	3	54.0		85	15	22	11	45	2.32		1.01	3.0	8	12	15	3	sw.	J. B. Dickson.
Hoosier Ranch	Mora		2								2.13		0.84	4.0	6	16	10	4	sw.	W. H. Guthman.
Johnsons Park	Colfax	6,722	4	45.4		72	15†	16	24	46	1.38		0.63	3.5	5	15	7	8	sw.	A. J. Meloche, jr.
Johnsons Ranch	Mora	5,784	1								1.63		0.68	2.0	5	24	3	3		J. W. Johnson.
Kappus	Quay	4,010	2								2.65		0.90	0	4					Louis O'Brien.
Lake Alice	Colfax	7,160	4								1.24		0.90	16.0	5					Jesse Rickman.
Logan	Quay	3,851	7	55.5		88	17	20	11	57	2.99		1.40	0	3	21	8	1	ne.	John B. Reneau.
Lykins (near)	Roosevelt	5,000	3								2.46		1.98	0	3	21	7	2	sw.	J. G. Buchanan.
Maxwell (near)	Colfax	5,894	6								1.36		0.63	0	4					Dan N. Jackson.
Melrose	Curry	4,400	5																	Dr. B. M. Porter.
Miami Ranch	Colfax	6,000	5	47.7		76	29	19	10	47	0.52		0.34	0	2	13	13	4	s.	Farmers' Development Co.
Mills (near)	Mora	5,985	2								1.98		0.64	3.0	7	19	2	9	sw.	J. E. La Rue.
Montoya	Quay	4,335	4								1.86		0.75	2.0	3	18	2	10	w.	Agent E. P. & S. W. R. R.
Mount Dora (near)	Union	5,600	2																	Edward F. Grygla.
Nara Visa	Quay	4,225	7	56.0		87	17	24	4	43	2.05		1.04	0	3	19	4	7	s.	Willard Belknap.
Palo Verde	Mora	5,880	2								2.26		0.77	7.5	5	14	12	4	se.	G. R. Abernathy.
Pasamonte	Union		4								1.80		0.67	0	4	16	8	6	w.	J. J. Heringa.
Pleasant View	Mora		2								1.76		0.79	2.0	5	18	10	2		R. W. Boulware.
Portales	Roosevelt	4,004	3																	Portales Irrigation Co.
Raton	Colfax	6,660	15	45.6	− 2.6	77	17	17	10†	40	1.30	+ 0.09	0.70	5.0	5	17	8	5	nw.	S. A. Wiseman.
Rociada	San Miguel	8,200	9																	J. P. Condon.
Rosebud	Union	4,500	2								2.65		1.10	T.	4					H. A. Nachtrieb.
Roy	Mora	5,884	4	51.5		82	16	18	23	48	3.31		1.00	7.0	5	13	10	7	sw.	Agent E. P. & S. W. R. R.
Roy (near)	do	5,880	2								3.12		0.96	7.5	8	15	13	2	sw.	Baum Bros.
St. Vrain (near)	Curry	4,300									2.76		2.61	0	3					S. A. Dow.
San Jon	Quay	4,200	6	56.5		86	17	19	11	50	3.05		1.70	T.	3	19	7	4	ne.	Jesse T. White.
Solano	Mora	5,622	4	50.3		80	17	12	24	45	2.42		0.88	5.0	5	23	3	4	sw.	F. M. Hughes.
Springer	Colfax	5,857	21	47.6	− 1.8	80	16†	18	3	51	1.32	+ 0.37	0.50	1.0	7	21	9	0	w.	Agent A. T. & S. F. R. R.
Taylor	do	5,661	4	48.6		82	16	24	9	52	0.67		0.65	T.	2	14	0	16	sw.	Agent E. P. & S. W. R. R.
Texico (near)	Roosevelt	4,038									2.20		1.33	0	4					A. L. King.
Trementina	San Miguel	5,000	5								2.32		0.84	6.0	5	15	13	2	sw.	Miss Alice Blake.
Tucumcari	Quay	4,194	8	57.6		88	17†	22	9	50	4.00		1.65	0	5	19	3	8	se.	John F. Seaman.
Valley	Union	5,000	8																	Miss M. L. Payne.
Vance (near)	do		2																	C. E. Anderson.
Vermejo Park	Colfax	7,600	8	42.8		72	14†	9	3	50	1.20		0.63	11.0	4	12	8	10	nw.	H. W. Adams.
Wagon Mound (near)	Mora	6,300	4	46.0		75	17†	6	10	47	1.82		0.75	5.0	6	15	6	9	se.	Guy L. Barnes.

TABLE 1.—*Climatological data for April, 1913. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Texas.																				
Amarillo	Potter	3,676	21	56.2	+ 1.6	87	17	28	4	43	1.76	+ 0.04	1.44	1.4	4	26	3	1	sw.	U. S. Weather Bureau.
Archer City	Archer		2								2.46		1.41	0	2	23	7	0	sw.	Charles H. Thuman.
Arthur City	Lamar	590	21								2.40	− 1.67	1.00	0	4	19	1	10		C. A. Lowfey.
Bonham	Fannin	566	10	64.6		92	17	35	5†	42	1.13		0.63	0	4	20	0	10	sw.	H. M. Norman.
Canadian	Hemphill	2,339	6	58.8		92	16	27	12	51	1.78		1.76	0	2					J. M. Shaw,
Childress	Childress	1,869	20								2.25	− 0.24	1.35	0	2	16	7	7	s.	George Baker.
Chillicothe	Hardeman	1,406	5								1.81		1.33	0	3					C. W. Underwood
Clarendon	*Donley*	2,719	8	60.2		94	17	29	12	50	1.38		0.88	0	4	18[a]	7[a]	4[a]	se.	Whitfield Carhart.
Clarksville	Red River	442	13	64.4[e]	− 0.1	92	23	34	12	48[e]	3.66	− 2.62	1.53	0	4	16	7	7		J. W. O'Neill.
Claude	Armstrong	3,397	10																	Ft. W. & D. C. Ry.
Dalhart	Dallam	3,998	8	52.2		86	17†	20	4	47	0.88		0.67	0	3	22	0	8	sw.	W. D. Griggs.
Denison	Grayson		13								0.50	− 3.46	0.40	0	2	20	1	9	s.	J. L. Wilson.
Finley	Bowie		3								3.25		1.60	0	3	25	0	5	s.	Robert L. Smith.
Henrietta	Clay	915	21	63.4	+ 0.3	99	17	32	12	47	2.68	− 0.11	1.53	0	3	21	0	9	s.	C. K. Brown.
Jefferson	Marion	219	7								3.35		1.20	0	4	23	3	4	e.	J. C. Kistenmacher.
Memphis	Hall	2,067	8								3.25		2.25	0	2	23	3	4	sw.	Ft. W. & D. C. Ry.
Miami	Roberts	2,743	10	59.1		99	29	25	12	48	2.00	+ 0.24	1.01	T.	3	18	9	3	s.	J. E. Kinney.
Ochiltree	Ochiltree		10								1.37	+ 0.10	0.83	0	3					S. J. Allen.
Panhandle	Carson	3,450	4								2.52		2.00	0	3	20	4	6		J. Sid O'Keefe.
Paris	Lamar	592	24	62.8	− 1.1	90	17	36	12†	46	3.22	− 0.01	1.10	0	5	21	4	5	s.	Robert A. Miller.
Plemons	Hutchinson		6	55.6		89	15†	15	12	54	1.02		0.42	0	4	19	7	4	s.	C. S. Solomon.
Quanah	Hardeman	1,563	11	65.5	+ 2.2	98	16	36	10†	48	1.70	− 0.02	1.35	0	2	26	0	4	s.	William H. Crawford.
Ringo Crossing	Hopkins		3								2.51		0.80	0	4	23	0	7	s.	H. J. Palmer.
Romero	Hartley	4,056	3																	R. S. Chamberlain.
Sherman	Grayson	745	20	64.4	+ 0.4	88	17	39	12	36	0.67	− 2.93	0.67	0	1	20	2	8	s.	R. A. Gibbs.
Stratford	Sherman	3,699	1	54.0		88	15†	19	4†	53	0.91		0.42	T.	5	14	14	2	s.	J. W. Elliott.
Tulia	Swisher	3,501	15	57.8	+ 1.7	90	16†	23	4	50	2.82	+ 0.87	0.92	T.	5	14	13	3	s.	Lou Mulhall.
Wellington	Collingsworth		1								2.52		1.50	0	4					J. D. Camp.
Wichita Falls	Wichita	958	21								3.45	+ 0.82	1.75	0	2					J. C. Mytinger.
Winfield	*Titus*		3								3.02		1.10	0	4	22	6	2	s.	J. B. Newberry.
Kansas.																				
Alden	Rice	1,684	3			87	17	27	12	43[j]	1.51		0.78	T.	7	21	2	7	nw.	Geo. Klady.
Anthony	Harper	1,329	16	59.8		90	2	31	12	45	0.90	− 1.60	0.53	T.	3	16	10	4	se.	R. H. Beebe.
Ashland	Clark	1,951	25	58.3	+ 1.1	93	30	26	11	52	2.39	+ 0.47	1.55	T.	4	19	8	3	se.	C. W. Carson.
Burlington	Coffey	1,010	20	58.4	+ 1.9	90	17	31	25	45	0.74	− 2.31	0.40	0	3	8	18	4	s.	O. E. Sanford.
Chanute	Neosho	940	9	60.5		89	17	33	13	41	1.34		0.45	0	5	12	13	5	s.	C. W. Brown.
Cimarron	Gray	2,700	1	58.0		88	15†	20	4	44	1.68		1.15	T.	5	21[c]	3[c]	3[c]	nw.	C. C. Isely.
Coffeyville	Montgomery	747	3	61.2		90	17†	33	4	40	1.01		0.76	0	3	17	6	7	s.	A. F. Briggs.
Coldwater	Comanche	2,090	16	58.6	+ 2.0	89	17	26	4†	41	1.29	− 0.16	0.71	T.	3	18	5	7	s.	J. L. Stanley.
Columbus	Cherokee	898	23	58.1	+ 1.7	86	17	32	13	38	1.75	− 2.53	0.62	0	6	18	3	9	s.	O. E. Skinner.
Coolidge	Hamilton	3,348	16	56.2	+ 3.2	95	6	15	4	60	1.71	+ 0.22	0.60	1.0	4	17	6	7	sw.	W. R. Padley.
Cottonwood Falls	Chase	1,234	9	58.8		89	17	29	13	43	1.42		0.57	T.	6	19	3	8	s.	E. B. Greene.
Council Grove	Morris	1,234	4	59.2		93	17	30	13	51	1.73		0.55	0	5	18[c]	4[c]	5[c]	s.	J. P. Blackledge.
Cunningham	Kingman	1,680	29	56.6	+ 0.1	88	2	26	12	50	0.90	− 1.42	0.60	T.	2	16	9	5	se.	W. H. Morton.
Dodge City	Ford	2,513	39	55.8	+ 1.4	87	17	23	4	44	2.12	+ 0.25	1.68	T.	7	15	9	6	nw.	U. S. Weather Bureau.
El Dorado	Butler	1,291	11	59.3		88	17	30	12†	42	1.78		0.75	T.	5	20	2	8	s.	W. Y. Miller.
Ellinwood	Barton	1,790	38	57.6	+ 3.0	90	2†	25	12	50	1.05	− 1.03	0.36	0.2	9	12	13	5	nw.	Martin Musil.
Emporia	Lyon	1,138	32	57.2	+ 2.0	89	17	32	12†	44	1.77	− 1.00	0.54	0	6	16	7	7	se.	W. H. Boyles.
Eureka	Greenwood	1,079	17	58.0		84	16†	30	5	44	1.80	− 1.23	1.15		4	21	8	1	nw.	Mrs. T. C. Peffer.
Fall River	do	925	17	59.0	+ 2.2	88	17	27	5	48	0.75	− 2.18	0.40	0	3	19	10	1	s.	J. McDaniel.
Fargo	Seward		3								1.42		1.00	0	3	27	0	3	s.	N. B. Swink.
Fredonia	Wilson	975	10	60.2		87	17†	30	13	38	0.97		0.38	0	3	20	4	6	s.	B. W. Holmes.
Garden City	Finney	2,836	24	56.5	+ 2.9	90	29†	20	4	51	1.05	− 0.84	0.55	0.2	3	15	8	7	s.	B. F. Stocks.
Great Bend	Barton	1,850	4								1.52		0.33	T.	7	21	3	6		I. Pritchard.
Greensburg	Kiowa	2,235	6	56.8		87	17	25	4	47	2.50		1.30	T.	4	21	4	5	s.	C. C. Raymond.
Grenola	Elk	1,116	25	59.1	+ 2.3	90	17	29	13	49	0.90	− 2.14	0.42	T.	5	17	6	7	sw.	W. H. Lawyer.
Howard	do	1,112	6	59.2		89	19	29	5	47	0.76		0.43	0	3	17	4	9	s.	J. W. Eby.
Hutchinson	Reno	1,535	23	57.7	+ 1.9	91	17	28	12†	47	1.24	− 0.94	0.77	T.	4	19	5	6	sw.	Sheridan Ploughe.
Independence	Montgomery	800	39	60.6	+ 1.7	89	17	31	13	41	1.18	− 2.56	0.71	0	4	19	2	9	s.	F. L. Kenoyer.
Iola	Allen	984	7	58.4	+ 4.2	87	17	33	25	39	1.30	− 1.49	0.78	0	4	16	8	6	s.	U. S. Weather Bureau.
Irene	Hamilton	3,440	3	53.2		88	6	20	12	55	2.29		0.85	T.	4	14	0	16	nw.	N. M. Herbig.
Jetmore	Hodgeman	2,268	12			89	17	25	13	5[e]	2.73	+ 1.16	1.90	T.	5	12[h]	7[h]	3[h]	nw.	James Aiken.
Kingman	Kingman	1,504	5	59.0		89	2†	29	12	46	0.88		0.68	0	4	16	11	3	sw.	B. B. Anawalt.
La Crosse	Rush	2,061	11	55.7	+ 2.4	90	17	21	12	52	1.42	+ 0.29	0.99	T.	5	16	6	8	sw.	Rodney Torrey.
Lakin	Kearny	2,993	23	53.8	− 0.1	93	30	17	4	56	0.96	− 1.06	0.60	4.0	2	19	6	5	s.	C. H. Longstreth.
Larned	Pawnee	2,090	28	57.5		89	17†	25	12	47	1.90	+ 0.22	0.76	T.	7	18	7	5	s.	H. H. Wolcott.
Lebo	Coffey	1,138	27	58.2	+ 2.3	90	17	32	13	43	1.52	− 1.31	1.00	T.	4	18	6	6	s.	J. J. Bowman.
Le Roy	do	990	4								1.26		0.94	0	2	18	1	11	s.	F. W. Schmitt.
Liberal	Seward	2,843	6	56.9		90	15	22	4	47	1.83		0.78	T.	4	17	3	10	sw.	Dr. R. T. Nichols.
Macksville	Stafford	2,032	24	54.5	+ 0.2	88	2†	22	12	46	1.32	− 0.62	0.50	T.	6	16	10	4	sw.	Mrs. Nelia Poling.
McPherson	McPherson	1,495	24	56.4	+ 0.8	90	2	27	12	45	1.0	− 0.87	0.68	0	6	23	2	5	sw.	Ed. F. Haberlein.
Madison	Greenwood	1,074	12	57.0	+ 1.9	91	17	26	12	50	1.10	− 1.75	0.07	T.	3	11	14	5	nw.	C. A. David.
Marion	Marion	1,310	20	60.0	+ 3.4	89	2†	29	13	46	1.37	− 1.23	0.42	T.	8	16	11	3	n.	Jerry Forney.
Medicine Lodge	Barber	1,259	20	58.6	+ 0.9	92	2	27	12†	50	0.78	− 1.31	0.40		3	20	5	5	se.	S. P. Garrison.
Medora	Reno	1,484	4																	M. L. Rickenbrode.
Minneola	Clark	2,558	1								1.78		1.29	T.	3	18	6	6	s.	A. P. Reece.
Mount Hope	Sedgwick	1,410	16								0.61	− 1.66	0.39	0	4	20	3	7	s.	H. N. Renfrew.
Neosho Rapids	Lyon	1,092	8								1.19		0.42	0	4	19	5	6	s.	W. H. McMullin.
Ness City	Ness	2,260	20								2.61	+ 0.59	1.80	T.	7					J. K. Barnd.
Newton	Harvey	1,454	16	59.4	+ 4.3	90	17	30	12†	44	1.07	− 1.53	0.80	T.	5	20	4	6	se.	H. A. Brush.
Norwich	Kingman	1,496	17	59.5	+ 2.3	89	17	28	12	42	0.95	− 1.65	0.53	T.	4	20	4	6	s.	N. I. Farris.
Oswego	Labette	899	19	59.2	+ 1.4	87	17	32	13	36	2.50	− 1.40	1.53	0	7	18	5	7	sw.	Jas. M. Currigan.
Plains	Meade	2,766	3	56.5		88	17	20	4	46	1.75		1.35	T.	3	17	8	5		E. J. Henning.
Pratt	Pratt	1,950	18	58.2	+ 3.2	90	17	26	12	48	0.88	− 1.37	0.40	T.	4	18	7	5	s.	T. J. Arnold.
Richfield	Morton		2	54.8	− 0.2	89	30	16	4	50	1.14	− 0.67	0.46	T.	3					M. J. Allen.
Rome	Sumner	1,218	27	59.3	+ 1.8	91	17	27	5	49	1.28	− 1.85	0.74	0	3	19	3	8	s.	D. M. Adams.
Sedan	Chautauqua	834	28	60.0	+ 2.8	90	18	31	13	45	0.96	− 2.36	0.55	0	5	17	8	5	s.	A. Y. Buckles.
Toronto	Woodson	1,040	16	59.4	+ 4.4	92	17	31	5†	48	0.85	− 2.35	0.73	0	2	24	2	4	s.	M. A. Webb.
Ulysses	Grant	3,050	22	54.6[i]	+ 0.8	89	30	19	4	49	1.21	− 0.37	0.70	T.	2	13[d]	5[d]	8[d]	sw.	T. W. Marshall.
Walnut	Crawford	940	11	58.8	+ 2.3	87	18†	34	13	40	1.36	− 2.58	0.50	0	4	19	6	5	sw.	R. C. Harlan.
Wellington	Sumner	1,225	17	60.4	+ 3.1	90	17	30	12†	40	1.36	− 1.85	0.74	0	5	20	5	5	s.	E. O. G. Kelly.
Wichita	Sedgwick	1,377	26	59.0	+ 2.4	87	17	30	12	35	1.83	− 0.86	1.15	0	4	17	7	6	s.	U. S. Weather Bureau.
Winfield	Cowley	1,124	19	60.7	+ 3.7	89	17	33	7	50	1.15	− 1.73	0.65	0	3	24	0	6		M. B. Light.
Yates Center	Woodson	1,068	34	57.1	+ 1.4	89	30	25	5	52	0.77	− 2.19	0.37	0	3	19	8	3	s.	J. W. Tipton.

TABLE 1.—*Climatological data for April, 1913. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Oklahoma.																				
Ada	Pontotoc	1,001	5	61.8	.....	91	17	34	13	42	2.67	.....	1.45	0	3	19	6	5	s.	H. P. Sugg.
Altus	Jackson	1,410	....	62.4	.....	98	16	36	4†	52	1.65	.....	0.90	0	3	20	5	5	.....	U. S. Weather Bureau.
Alva	Woods	1,350	8	60.2	.....	93	2	28	13	55	T.	.....	T.	0	0	16	10	4	s.	S. A. Stech.
Apache	Caddo	1,255	3	61.2	.....	98	17	31	12	52	2.56	.....	1.61	0	3	25	4	1	s.	G. D. Teeter.
Arapaho	Custer	1,575	19	60.8	+ 0.7	93	....	31	....	45[a]	1.80	− 1.08	1.15	0	2	27	0	3	s.	J. C. Brower.
Ardmore	Carter	872	11	63.8	+ 1.7	97	18	36	5†	41	1.82	− 1.72	0.90	0	3	24	2	4	s.	H. T. Nisbett.
Bartlesville	Washington	687	5	62.5	.....	93	18	36	5†	44	1.40	.....	1.05	0	2	17	8	5	s.	Dr. A. P. Owens.
Beaver	Beaver	2,500	16	58.0	+ 0.4	90	15†	24	4	51	1.44	− 0.75	1.20	0	3	17	8	5	s.	W. C. Frazer.
Blackburn	Pawnee	800	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Bertha Parks.
Cache	Comanche	1,350	7	58.5	.....	93	17	26	5	52	2.10	.....	1.20	0	3	22	7	1	sw.	Mrs. Frank Rush.
Calvin	Hughes	713	8	.....	.....	.....	.....	.....	.....	.....	2.02	.....	0.78	0	5	21	0	9	s.	Thomas Purcell.
Chandler	Lincoln	865	11	63.4	+ 2.9	97	....	36	....	43[a]	2.03	− 1.63	1.52	0	3	21[a]	3[a]	5[a]	s.	Chas. L. Kern.
Chattanooga	Comanche	1,150	7	60.2	.....	94	16†	30	5	49	1.67	.....	1.11	0	2	23	2	5	se.	Squire Humble.
Chickasha	Grady	1,091	11	61.6	− 0.3	92	17	32	13	46	1.78	− 1.41	1.12	0	4	21	1	8	s.	Anna W. O'Neill.
Cloud Chief	Washita	1,400	11	61.9	+ 2.0	95	17	33	12†	47	0.85	− 1.93	0.85	0	1	20	6	4	s.	J. P. Stutzman.
Crawford	Rogers Mills	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. W. Blackburn.
Durant	Bryan	643	11	62.4	+ 0.9	93	17	36	5	43	0.52	− 3.16	0.38	0	3	22	6	2	se.	Nelson Houk.
Eldorado	Jackson	1,456	6	62.2	.....	96	16†	33	5	51	2.15	.....	1.35	0	2	24	5	1	s.	T. W. Lanham.
Elk City	Beckham	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. J. Carlile.
El Reno	Canadian	1,400	21	63.7	+ 3.5	92	....	34	....	49[c]	2.07	− 1.14	1.56	0	3	19[c]	3[c]	5[c]	s.	Rose E. Walker.
Enid	Garfield	1,269	11	60.0	+ 2.1	94	18	32	12	43	1.46	− 1.18	0.76	0	4	18	4	8	s.	Uri B. Worcester.
Erick	Beckham	2,058	8	61.8	.....	96	....	31	....	52[a]	2.39	.....	1.69	0	2	21[a]	5[a]	3[a]	s.	A. W. Hanes.
Eufaula	McIntosh	566	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. Uhl Brown.
Fairland	Ottawa	839	13	60.4	+ 2.6	90	17	33	13	40	3.26	− 0.41	2.22	0	4	15	8	7	s.	C. W. Prier.
Fort Gibson	Muskogee	556	8	.....	.....	.....	.....	.....	.....	.....	2.69	.....	0.97	0	4	21	2	7	s.	John T. Welsh.
Frederick	Tillman	1,293	6	63.2	.....	98	16†	32	12†	55	1.57	.....	0.93	0	3	22	6	2	se.	B. B. Bradley.
Geary	Blaine	1,546	1	61.1	.....	91	18	32	12	44	2.80	.....	1.92	0	4	20	3	7	s.	O. P. Ruth.
Goodwell	Texas	3,300	2	56.4	.....	88	18†	19	4	47	0.52	.....	0.40	0	3	17	7	6	s.	S. W. Black.
Guthrie	Logan	1,000	20	62.9	+ 1.2	94	18	33	13	42	3.60	+ 0.47	3.00	0	2	22	5	3	s.	S. E. Snyder.
Guymon	Texas	3,133	3	.....	.....	.....	.....	.....	.....	.....	1.03	.....	0.50	0	3	16	14	0	ne.	A. L. Mordt.
Hartshorne	Pittsburg	700	14	65.2	+ 3.3	91	20	32	13	40	0.63	− 3.57	0.63	0	1	19	9	2	s.	Frank Webber.
Healdton	Carter	900	19	61.6	− 1.1	95	17	28	5	49	1.23	− 2.41	0.78	0	2	19	12	0	s.	C. H. Heald.
Helena	Alfalfa	1,396	5	60.8	.....	90	29	29	11	45	1.69	.....	1.29	0	2	21	3	6	s.	J. G. McCall.
Hennessey	Kingfisher	1,166	18	61.4	+ 0.9	94	18	32	10	42	1.22	− 1.47	0.97	0	2	22	7	1	s.	Mrs. M. C. Parks.
Hobart	Kiowa	1,396	10	61.1	.....	96	17	32	12	52	1.70	.....	1.02	0	3	18	7	5	s.	J. M. Pate.
Holdenville	Hughes	900	12	61.4	+ 2.1	89	17	34	12†	39	1.66	− 1.75	0.61	0	4	19	10	1	s.	Eula Rutherford.
Hooker	Texas	3,038	7	55.9	.....	90	15†	20	4	52	1.08	.....	0.36	0	5	16	0	14	s.	H. N. Kelly.
Hugo	Choctaw	.....	....	62.6	.....	90	17	34	11	43	1.62	.....	0.79	0	5	22	2	6	n.	G. C. Montgomery.
Hurley	Cimarron	4,200	5	53.6	.....	86	30	14	4	58	0.33	.....	0.21	T.	2	14	11	5	sw.	Dr. C. W. Meyers.
Idabel	McCurtain	474	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. L. Henderson.
Jefferson	Grant	1,062	19	57.0	− 1.3	89	18	28	12	50	1.64	− 1.12	1.03	0	2	21	6	3	s.	T. E. Beck.
Kenton	Cimarron	4,000	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. H. Guy.
Kingfisher	Kingfisher	1,046	16	61.8	+ 1.5	94	18	32	13	45	2.38	− 0.58	1.53	0	5	17	10	3	s.	J. C. Cross.
Lawton	Comanche	1,111	....	63.1	.....	99	17	31	10	49	1.98	.....	1.10	0	4	21	5	4	s.	Frank M. Head.
Lawtonka Lake	do	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. F. Stuart.
McAlester	Pittsburg	698	16	63.4	.....	91	17	35	13	39	1.25	− 2.94	0.59	0	5	21	1	8	s.	Wm. Noble.
Mangum	Greer	1,585	20	62.7	+ 0.6	98	17	34	10†	55	2.05	− 0.15	1.10	0	3	21	5	4	se.	F. D. Dodson.
Marlow	Stephens	1,292	12	61.8	+ 1.2	95	17	31	5	43	1.06	− 2.65	0.65	0	4	17	1	12	s.	Wm. B. Anthony.
May	Harper	.....	19	58.6	.....	95	18	22	4	55	2.00	.....	1.50	0	2	23	0	7	s.	G. C. Gray.
Meeker	Lincoln	1,030	14	58.8	− 1.9	90	17†	30	4	48	1.55	− 2.18	1.00	0	2	20	3	7	s.	Dr. J. H. Baugh.
Muskogee (1)	Muskogee	.....	14	62.4	+ 2.3	89	17	34	13	35	2.59	− 1.29	1.49	0	3	18	2	10	s.	J. Harry Randall.
Muskogee (2)	do	614	14	61.1	.....	86	17†	38	10†	31	2.32	.....	1.16	0	5	21	3	6	.....	U. S. Weather Bureau.
Mutual	Woodward	.....	5	59.6	.....	97	16	30	10	49	1.32	.....	0.95	0	2	21	1	8	s.	Thos. Martin.
Neola	Caddo	1,500	7	61.3	.....	95	17	32	12	47	1.76	.....	0.88	0	4	19	10	1	s.	R. N. Schooling.
Newkirk	Kay	1,149	15	62.0	+ 3.2	93	18	30	12	45	1.39	− 1.49	0.65	0	3	18	9	3	s.	P. H. Albright & Co.
Norman	Cleveland	1,171	18	61.2	+ 0.3	93	18	30	12	44	1.45	− 1.84	0.78	0	2	17	11	2	s.	S. E. Boyd.
North Muskogee	Muskogee	.....	....	.....	.....	.....	.....	.....	.....	.....	2.17	.....	1.23	0	3	17	2	11	s.	J. E. Walker.
Oakwood	Dewey	1,854	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Okeene	Blaine	1,194	8	60.0	.....	93	....	30	....	44[a]	1.41	.....	0.93	0	3	20	8	2	s.	Dr. L. H. Murdoch.
Okemah	Okfuskee	.....	1	62.2	.....	88	18	27	4	38	2.87	.....	1.17	0	4	20	3	7	s.	S. F. Smith.
Oklahoma	Oklahoma	1,247	23	60.6	+ 1.0	89	17	34	12	36	1.88	− 0.92	1.20	0	3	17	6	7	s.	U. S. Weather Bureau.
Okmulgee	Okmulgee	752	8	66.7[b]	.....	96	....	.....	....	.....	2.60	.....	1.22	0	3	21	2	7	s.	J. L. Maynard.
Pauls Valley	Garvin	880	12	63.4	+ 3.6	98	17	28	5	47	1.70	− 1.97	1.12	0	2	22	7	1	s.	A. M. Foss.
Pawhuska	Osage	918	12	62.8	+ 4.2	97	22†	30	12	43	1.65	− 1.59	0.92	0	3	19	9	2	s.	R. C. Block.
Perry	Noble	920	14	61.8	+ 2.7	95	18	34	4†	47	1.69	− 1.91	0.86	0	2	21	8	1	s.	S. E. Laird.
Rankin	Rogers Mills	2,200	9	58.6	.....	93	16†	29	4†	53	2.40	.....	1.70	0	4	20	6	4	sw.	Roy Kagay.
Ravia	Johnston	796	10	61.8	.....	93	17	33	13	45	1.11	.....	0.61	0	3	19	3	8	s.	R. G. Guptill.
Sac and Fox Agency	Lincoln	900	19	62.8	+ 1.9	92	18	32	13	39	1.63	− 1.39	1.03	0	2	15	10	5	nw.	Thos. P. Myers.
Shawnee	Pottawatomie	1,041	11	60.9	− 0.6	92	17	32	12†	43	1.40	− 1.95	0.84	0	4	10	20	0	se.	Mrs. Kate Chatman.
Snyder	Kiowa	1,356	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. C. Woodard.
Stillwater	Payne	880	20	61.4	+ 2.2	93	18	34	12	43	3.87	+ 0.38	3.13	0	4	20	6	4	s.	Will P. Watson.
Tulsa	Tulsa	700	24	61.4	.....	91	17	35	13	41	3.46	− 0.03	2.95	0	4	18	10	2	s.	Dr. H. M. Hutchinson.
Vinita	Craig	698	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Insane Hospital.
Wagoner	Wagoner	588	16	61.0	+ 1.9	91	18	30	13	38	3.38	− 0.30	1.70	0	3	15	9	6	s.	Moro Hatfield.
Waukomis	Garfield	1,258	16	60.1	+ 1.0	92	18	31	13	45	1.72	− 1.27	0.90	0	2	19	11	0	nw.	R. C. Shades.
Waurika	Jefferson	988	2	62.8	.....	96	17	34	9†	45	2.32	.....	1.50	0	2	19	9	2	s.	B. A. Swindler.
Weatherford	Custer	1,639	11	60.2	+ 1.4	92	17	32	13	47	2.91	+ 0.21	2.06	0	4	21	4	5	s.	Eugene Forbes.
Webbers Falls	Muskogee	479	14	62.4	+ 2.4	94	17	32	13	44	3.10	− 0.65	1.50	0	3	10	17	3	n.	B. D. Boulineau.
Whiteagle	Kay	945	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John F. DeJarnette.
Woodward	Woodward	1,900	10	60.0	.....	91	2†	28	13	51	1.11	.....	0.64	T.	3	15	11	4	s.	Fred A. Baird.
Wyandotte	Ottawa	.....	....	.....	.....	.....	.....	.....	.....	.....	3.50	.....	2.20	0	3	17	0	13	s.	Henry Hicks.
Missouri.																				
Belle	Maries	.....	21	56.8[e]	+ 2.4	85	18†	35	14	40	4.98	+ 0.90	3.90	0	3	13[e]	6[e]	6[e]	s.	A. J. Wofford.
Birchtree	Shannon	1,200	20	57.4	+ 0.5	89	18	31	5	39	2.95	− 1.83	0.66	0	6	19	4	7	s.	V. H. Kirkendall.
Cape Girardeau	Cape Girardeau	346	9	.....	.....	.....	.....	.....	.....	.....	2.07	.....	0.70	0	8	17	7	6	s.	D. L. Albert.
Cardwell	Dunklin	.....	2	60.8	.....	88	21†	38	14	37	3.97	.....	1.40	0	6	20	6	4	s.	E. M. Perry.
Caruthersville	Pemiscot	.....	22	60.0	+ 0.4	87	18	38	14	38	4.11	+ 0.24	1.28	0	8	18	1	11	se.	H. E. Averill.
Cassville	Barry	.....	3	56.7	.....	87	16†	27	5†	51	2.74	.....	0.99	0	5	17	5	8	s.	Mrs. Zuma Bloomer.
Dean	McDonald	.....	15	57.4	0.0	90	17	26	13	44	2.69	− 1.85	1.06	0	4	20	2	8	sw.	H. E. Dean.
Doniphan	Ripley	440	10	57.8	.....	88	18	33	14	40	3.73	− 1.79	1.15	0	8	17	4	9	s.	W. W. Martin.
Gano	Dent	.....	10	57.4	+ 1.5	90	18†	31	5	39	3.38	− 1.47	1.20	0	8	16	6	8	s.	A. C. Leech.
Goodland	Iron	900	9	54.6	.....	88	18	27	5	49	2.96	.....	1.03	0	5	16	7	7	s.	F. M. Adams.
Hollister	Taney	1,000	4	58.8	.....	90	18	32	14	42	2.20	.....	0.75	0	5	19	0	11	sw.	W. P. Chapmann.
Ironton	Iron	925	36	54.7	− 0.7	90	18	27	5	50	4.28	− 0.10	1.52	0	11	12	7	11	n.	W. H. Delano.
Jackson	Cape Girardeau	458	23	57.0	+ 0.5	82	2†	33	5†	40	3.37	− 1.17	1.25	0	9	15	6	9	n.	L. M. Bean.
Joplin	Jasper	979	34	61.0	+ 2.7	94	19	33	25	37	2.17	− 1.60	0.42	0	4	17	4	9	w.	Joplin High School.
Koshkonong	Oregon	911	13	59.0	+ 1.7	90	18	35	12	33	2.57	− 2.52	0.71	0	6	15	8	7	se.	J. W. Hitt.
Lamar	Barton	964	33	58.2	+ 1.3	88	18	34	13	38	2.81	− 1.30	0.93	0	6	17	4	9	se.	E. H. Adams.

TABLE 1.—*Climatological data for April, 1913. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Missouri—Continued																				
Marble Hill	Bollinger	420	22	57.0	+ 0.9	90	18	32	5	42	3.75	− 0.89	1.20	0	7	16	6	8	s.	A. F. Hendrix.
Mountaingrove	Wright	1,490	15	55.6	+ 1.2	85	18	30	5	34	4.95	+ 0.55	1.47	T.	7	18	3	9	nw.	Missouri Fruit Exp. Sta.
Mount Vernon	Lawrence	1,480	33	57.2	+ 1.5	89	18	31	5†	40	2.35	− 1.11	0.93	0	4	22	2	6	sw.	J. R. White & Son.
Neosho	Newton	1,023	31	58.4	+ 0.2	89	17†	29	13	43	3.89	− 0.34	1.70	0	6	18	1	11	sw.	W. O. Buck.
New Madrid	New Madrid	285	20								3.96	− 0.43	0.88	0	12	18	1	11	se.	Miss Josie Smith.
Oakfield	Franklin	793	22	55.8	− 0.2	86	17	34	5†	35	4.15	− 0.05	2.61	0	8	10	10	10	e.	E. E. Steines.
Rolla	Phelps	1,139	33	57.7	+ 2.9	88	18	30	5	37	3.33	− 1.04	1.44	0	7	17	5	8	ne.	Prof. P. J. Wilkins.
Springfield	Greene	1,350	26	56.7	+ 1.0	86	18	33	13	29	2.05	− 1.81	0.85	0	6	16	7	7	se.	U. S. Weather Bureau.
Kentucky.																				
Blandville	Ballard	445	32	58.3	+ 1.1	84	18	38	5	32	3.68	− 0.51	1.15	0	9	17	5	8	nw.	E. W. Horr.
Tennessee.																				
Arlington	Shelby		31	59.3	+ 0.7	88	18	38	5	43	6.10	+ 2.13	2.50	0	7	16	2	12	s.	A. Thomas B. Etheridge.
Boliver	Hardeman	450	30	59.0	− 0.4	86	18	39	6†	41	5.08	+ 0.50	1.69	0	7	19	1	10	sw.	Miss Mary A. Smith.
Brownsville	Haywood	361	31	59.4	− 0.9	85	18	40	5†	39	6.26	+ 1.56	3.01	0	10	18	1	11	s.	Miss Hattie N. Moses.
Covington	Tipton	311	30	58.8	− 1.3	84	18	40	5†	34	5.22	+ 0.81	2.15	0	7	20	0	10	s.	James S. Ruffin.
Dyersburg	Dyer	310	30	57.8	− 2.0	86	18	40	5†	38	5.30	+ 0.03	2.10	0	6	19	0	11	nw.	Miss Martha A. Sinclair.
Jackson	Madison	450	23	60.0	− 0.5	88	18	35	28	42	5.28	+ 0.11	1.40	0	10	17	4	9	n.	Shelby A. Robert.
Kenton	Obion	325	11	58.6	0.0	86	18	37	5†	38	5.37	+ 0.11	1.74	0	9	16	2	12	s.	George S. Martin.
Memphis	Shelby	409	42	61.2	− 0.6	82	18	40	13	26	5.40	+ 0.57	3.42	0	7	15	6	9	s.	U. S. Weather Bureau.
Milan	Gibson	440	31	59.0	− 0.4	89	18	39	5†	44	4.18	− 0.54	1.30	0	9	13	3	14	s.	Orlando F. Cantwell.
Trenton	do	345	33	59.0	− 0.5	86	18	37	16	39	5.80	+ 1.23	3.80	0	6	18	6	6	nw.	F. L. Dennison.
Union City	Obion	360	18																	J. R. Oliver.
Arkansas.																				
Alicia	Lawrence		8	60.4		88	19	36	14	36	4.59		2.04	0	4	19	5	6	s.	McCullough & Guelck.
Amity	Clark	250	21	61.6	− 0.9	89	17†	30	13	45	6.60	+ 1.73	4.50	0	4	20	4	6	sw.	J. W. Campbell.
Arkansas City	Desha	145	29								5.50	+ 1.72	1.70	0	5					W. C. Blundell.
Batesville	Independence	271	9								4.28		1.33	0	6					Lelia I. Teter.
Bee Branch	Van Buren		21	60.6	− 0.4	90	18	36	5†	39	3.85	+ 0.08	1.90	0	5	16	2	12		J. E. Scanlan.
Benton	Saline	283	7																	P. B. Jackson.
Bentonville	Benton	1,303	8	58.4	+ 1.5	87	18	33	13	33	2.99	− 0.90	1.74	0	4	15	5	10	s.	U. S. Weather Bureau.
Bergman	Boone	1,324	15	59.6	+ 2.5	90	18	34	5†	40	3.61	− 0.22	1.62	0	6	19	4	7	se.	John T. Maxey.
Black Rock	Lawrence	259	9								4.38		1.25	0	9					S. J. Howe.
Brinkley	Monroe	226	24	61.2	− 0.5	89	18	34	14	42	7.04	+ 2.51	2.73	0	6	16	5	9	n.	H. L. D. Whitson.
Calico Rock	Izard	361	9								4.15		1.30	0	7					W. H. Stoner.
Camden	Ouachita	158	28	62.8	− 0.8	90	17†	34	12†	45	4.37	− 0.19	1.69	0	7					R. H. Quarterman.
Centerpoint	Howard	470	13	63.0	0.0	90	17	32	12	45	4.22	− 0.84	2.12	0	4	19	2	9	se.	J. M. Huddleston.
Clarendon	Monroe	171	9								7.92		5.65	0	7					Mrs. B. E. Bishop.
Conway	Faulkner	309	30	61.6	− 0.7	91	18	38	12†	38	7.17	+ 3.42	5.23	0	5	20	1	9	se.	G. H. Burr.
Corning	Clay	293	20								2.63	− 1.55	1.06	0	9	12	6	12	s.	Jacob Brobst.
Dardanelle	Yell	330	27	60.8		92	18	36	12	43	3.53	− 0.19	0.80	0	7					A. Bernard.
Dodd City	Marion	1,175	32	60.4	+ 0.1	92	16†	31	14	52	3.34	− 0.57	1.20	0	6	16	7	7	nw.	Neal Dodd.
Dumas	Desha		1								4.27		1.42	0	4	27	2	1		Lawrence Waterman.
Dutton	Madison		12	56.1	0.0	88	18	27	5†	46	3.55	− 1.46	1.12	0	4	19	2	9	s.	J. M. Ricketts.
Eldorado	Union	265	9	62.6		87	17	37	12†	38	5.95		2.00	0	6					Jeff J. Babb.
England	Lonoke		6	61.6		88	18†	38	12†	37	7.65		2.56	0	7					J. C. Chenault.
Eureka Springs	Carroll	1,465	11	60.4	+ 2.4	92	17†	31	13	45	2.62	− 2.34	1.04	0	5	12	11	7	sw.	George W. Nichoalds.
Fayetteville	Washington	1,451	26	59.3	+ 0.5	88	18	32	13	39	3.94	− 0.45	1.96	0	7	16	6	8	sw.	University of Arkansas.
Fordyce	Dallas		3	62.9		87	17	38	11†	37	5.10		2.53	0	5	17	6	7	n.	J. B. Atkinson.
Fort Smith	Sebastian	481	31	62.1	+ 0.4	91	18	38	12	36	2.70	− 1.20	1.25	0	6	19	1	10	e.	U. S. Weather Bureau.
Fraziers Turnpike	Pulaski		2								7.59		5.44	0	6	14	4	12	s.	R. E. Brown.
Fulton	Hempstead	264	27								2.36	− 1.85	1.10	0	4					B. C. Logan.
Georgetown	White	200	1								8.36		5.36	0	6					Wm. N. Harris.
Hardy	Sharp	643	15	59.6	+ 1.5	89	18	36	5†	35	3.33	− 0.69	0.93	0	6	11	8	11	se.	C. A. Caywood.
Helena	Phillips	182	41	60.9	− 2.1	85	18	40	13	29	6.38	+ 0.91	3.04	0	6					J. B. McLeod.
Hot Springs	Garland	600	22	64.0	+ 1.5	88	18†	38	12†	42	9.81	+ 4.39	7.25	0	4	23	5	2	sw.	Army and Navy Gen. Hosp.
Huttig	Union	85	6	63.5		88	17†	38	12	40	4.87		2.06	0	6	19	9	2		C. A. Berry.
Jonesboro	Craighead	345	18	60.8	− 1.2	91	18	38	14	40	3.46	− 0.50	1.80	0	6	10	14	6	s.	Benedictine Sisters.
Junction	Union		17	63.6	+ 0.4	88	17†	34	12	42	5.14	+ 0.48	2.50	0	5	21	3	6	n.	J. A. Lowderback.
Lake Farm	Jefferson	195	5	62.4		87	19	38	14	40	5.41		2.55	0	7					G. L. Spellman.
Lewisville	Lafayette	262	10	63.3		89	17	36	12	40	4.22		1.33	0	7	23	1	6		F. W. Youmans.
Little Rock	Pulaski	357	34	61.8	− 0.9	87	18	38	12	29	11.46	+ 6.95	9.58	0	7	18	6	6	nw.	U. S. Weather Bureau.
Lutherville	Johnson	775	14	59.8	+ 0.8	88	18	34	5†	38	4.20	+ 0.29	1.41	0	7	13	12	5	se.	W. R. Hentschel.
Malvern	Hot Springs	277	25	62.3	+ 0.4	88	17†	36	12†	40	8.52	+ 4.43	4.22	0	5					Miss L. C. Smith.
Mammoth Spring	Fulton	512	7	59.2		94	18	30	14	46[a]	2.47		0.84	0	7					F. Wallick.
Marked Tree	Poinsett	229	8																	Chapman & Dewey L. Co.
Mena	Polk	1,100	26	61.2	− 1.2	87	18	34	12	35	3.44	− 1.34	1.61	0	5	19	1	10	w.	R. R. St. John.
Newport	Jackson	231	28	62.0	+ 0.3	92	18	40	12†	39	5.21	+ 0.71	2.67	0	8					Chas. Sprigg.
Pine Bluff	Jefferson	215	24	61.7	− 1.9	89	18†	38	11†	40	6.86	+ 2.26	2.02	0	7					J. H. Hudson.
Pocahontas	Randolph		21	61.5	+ 2.2	90	18	34	5	39	3.77	− 0.38	1.01	0	7	15	8	7		Benedictine Sisters.
Pond	Benton	1,250	16	58.6	+ 2.7	88	17†	28	13	40	3.36	− 0.32	1.42	0	5	9	11	10	sw.	A. F. Stevens.
Portland	Ashley	122	5	63.8		92	17	38	14	44	4.94		1.36	0	5					T. A. Corson.
Prescott	Nevada	327	22	61.7	− 1.5	89	17	35	12	42	4.58	− 0.20	1.35	0	6					Mrs. G. Cummings.
Rogers	Benton	1,385	23	59.4	+ 1.2	88	18	32	5	38	1.84	− 2.47	0.94	0	5	16	5	9	s.	Carl A. Starck.
Springbank	Miller	182	5								4.69		1.60	0	5					G. Field.
Stuttgart	Arkansas	495	25	61.6	− 1.0	87	19	38	14	34	6.62	+ 2.33	4.25	0	6	17	8	5	s.	H. A. Buerkle.
Subiaco	Logan	1,050	16	60.3	− 0.4	91	19	35	13	46	4.28	+ 0.84	1.59	0	5	21	3	6	ne.	New Subiaco Abbey.
Swain	Newton	2,300	3	58.4[f]		83	18	32	11	31[f]	2.30		1.13	0	6					George Paxton.
Texarkana	Miller	332	25	63.0	− 0.6	93	16	32	12	52	2.33	− 1.92	1.00	0	5					D. E. Moore.
Warren	Bradley	304	18	63.6	+ 1.3	89	19	42	12†	38	6.17	+ 1.17	2.02	0	5					W. J. Savage.
Whitecliffs	Little River	206	8								2.71		0.86	0	5					F. B. Lane.
Wiggs	Garland		19	60.3	− 0.9	87	18	30	12	45	8.52	+ 4.05	6.18	0	6	15	8	7	sw.	S. D. Jester.
Wynne	Cross	250	5	59.8		82	17†	33	14	38	5.88		2.00	0	6					John Seals.
Mississippi.																				
Anguilla	Sharkey	107	5	64.4		88	18†	38	14	38	6.31		2.45	0	5	18	7	5	sw.	E. W. Cook.
Austin	Tunica	200	17	61.4	− 0.6	87	18	41	14	37	6.63	+ 2.49	3.42	0	7	19	6	5	nw.	H. J. Irvine.
Batesville	Panola	230	26	60.4	− 1.4	90	18	37	14	47	6.07	+ 1.85	2.40	0	8	22	1	7	w.	J. M. Cox.
Big Creek	Calhoun		2	63.1		90	18	36	14	46[d]	4.75		2.00	0	6	17	6	7	s.	J. P. Havens.
Canton	Madison	228	23	63.2	− 1.6	86	1†	37	14	38	4.48	+ 0.36	2.51	0	5	17	6	7	nw.	Dr. G. W. Smith-Vaniz.
Charleston	Tallahatchie		3	61.4		87	18†	34	14	43	4.17		1.55	0	5	18	4	8	s.	W. B. Burke.
Clarksdale	Coahoma	177	6	62.1		88	18	37	14	40	5.83		2.18	0	7	15	1	14	s.	A. C. Tuttle.
Cleveland	Bolivar	160	1								4.65		1.25	0	5					W. W. Boone.
Coffeeville	Yalobusha	241	4								4.93		1.85	0	7	19	8	3	sw.	C. K. Bailey.

TABLE 1.—*Climatological data for April, 1913. District No. 7*—Continued.

Stations.	Counties.	Evleation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Mississippi—Contd.																				
Corinth	Alcorn	470	25	60.6	+ 1.5	87	18	40	28	40	6.13	+ 1.25	3.46	0	10	15	2	13	se.	M. A. Candler.
Crenshaw	Panola	187	4								6.55		4.20	0	6	19	5	6	s.	Rodgers Woollard.
Duek Hill	Montgomery		14	61.4	− 1.4	87	19	34	14	44	6.25	+ 1.30	2.49	0	4	16	7	7	s.	W. H. Eskridge.
Edwards	Hinds	222	26	64.6	− 1.5	87	19	39	13†	39	8.80	+ 4.41	3.00	0	5	24	4	2	s.	E. F. Farr.
Fayette	Jefferson	270	12	62.2	− 3.6	86	20†	35	13	38	6.69	+ 0.61	4.00	0	5	17	10	3	s.	T. L. Darden.
Greenville	Washington	126	26	63.6	− 0.9	88	21	39	14	39	5.06	+ 1.06	1.51	0	6	18	11	1	sw.	M. G. Harbison.
Greenwood	Leflore	140	13	63.2	+ 0.2	90	19	37	14	42	5.29	+ 1.54	1.90	0	7	16	4	10	s.	J. H. Stephen.
Grenada	Grenada	124	4																	W. F. Hallam.
Hernando	De Soto	391	25	60.4	− 1.2	87	18	36	28	35	5.68	− 1.04	1.66	0	7	20	5	5	s.	W. F. Wood.
Hickory Flat	Benton	435	4								4.36		1.25	0	7	16	9	5	n.	H. Powell.
Holly Springs	Marshall	600	26	59.8	− 1.9	84	18	38	12	31	5.41	+ 0.51	2.38	0	10	17	3	10	se.	L. B. Mosby.
Kosciusko	Attala	430	23	61.5	− 1.9	86	19	36	14	42	6.27	+ 2.38	1.77	0	7	19	7	4	se.	E. L. Lucas.
Malone	Marshall		4								4.66		2.02	0	8					M. J. Wilkins.
Moorhead	Sunflower			61.8		88	18	34	14	41	5.12		1.97	0	5					H. S. Gove.
Natchez	Adams	206	25	61.8	− 5.5	89	19	29	13	47	7.04	+ 2.06	2.35	0	5	19	4	7	se.	Catherine E. Garrity.
Pontotoc	Pontotoc	475	24	60.2	− 1.8	86	18	38	28	39	4.17	+ 0.47	1.70	0	4	16	11	3	nw.	Dr. C. W. Bolton.
Port Gibson	Claiborne	116	25	62.2	− 3.3	88	21	37	13	45	7.62	+ 3.20	3.10	0	5	20	2	8	e.	H. H. Crisler.
Rosedale	Bolivar	143	5	61.8		85	19	39	14	38	4.34		1.54	0	5	15	1	14	sw.	T. J. Murray.
Senatobia	Tate	284	4																	C. Brickell.
Shoccoe	Madison		10	63.1	− 1.7	87	18	37	14	37	5.76	+ 1.70	2.18	0	4	21	5	4	s.	J. C. Pitchford.
Suffolk	Franklin		12	63.4	− 1.9	88	20	37	14	38	6.31	+ 2.07	3.53	0	4	21	3	6	w.	Prof. Geo. H. Kent.
Swan Lake	Tallahatchie	148	8								4.46		1.60	0	5	17	4	9	se.	Dr. S. D. Robinson.
Tchula	Holmes	130	8	62.0		88	18	36	14	48	7.35		3.35	0	5	14	13	3		Dr. M. P. Winkler.
University	Lafayette	502	20	60.5	− 2.0	85	19	37	14	37	5.05	+ 0.77	1.50	0	8	18	7	5	s.	Prof. J. H. Dorroh.
Utica	Hinds	287	9	62.8		87	18†	36	13	40	6.96		2.50	0	4	20	3	7	nw.	Dr. J. B. Dudley.
Vicksburg	Warren	247	42	64.0	− 1.2	85	19	43	13	27	7.27	+ 2.11	3.51	0	5	17	6	7	nw.	U. S. Weather Bureau.
Water Valley	Yalobusha	300	24	60.8	− 2.5	88	19	36	14	43	4.75	0.00	1.60	0	6	18	6	6	sw.	Miss Loula Erikson.
Woodville	Wilkinson	560	20	63.6	− 3.1	86	20	39	13†	31	7.11	+ 2.08	2.85	0	5	23	5	2	se.	James E. Lee.
Yazoo City	Yazoo	116	19	63.0	− 2.2	86	1†	36	14	41	6.03	+ 1.71	1.98	0	6	18	4	8	se.	W. H. Courts.
Louisiana.																				
Abbeville	Vermilion	18	25	67.4	− 1.5	90	20†	42	12†	35	5.20	+ 0.97	1.95	0	4	17	7	6	se.	C. J. Edwards.
Alexandria	Rapides	77	25	64.4	− 2.7	88	20	40	12†	41	9.22	+ 4.67	2.40	0	4	17	1	12	n.	Nellie Graham.
Amite	Tangipahoa	130	25	63.9	− 3.3	89	20	35	14	40	6.32	+ 1.13	2.20	0	3	21	6	3	n.	Lulu M. Wentz.
Antioch	Claiborne		1	63.6		91	21	37	13†	40	4.87		2.02	0	9	22	0	8	s.	W. L. Anglin.
Avoca Island	St. Mary	9	2								3.18		2.20	0	4	25	1	4		J. N. Pharr & Sons (Ltd.).
Baton Rouge	East Baton Rouge	60	25	66.8	− 0.5	88	19	43	14	32	4.13	− 0.50	2.55	0	5	21	0	9	nw.	Elmo M. Bott.
Burnside	Ascension	20	13	65.8	− 1.3	88	19†	38	14	37[c]	2.78	− 2.02	1.75	0	4	21	5	4	e.	C. S. McFarland.
Burrwood	Plaquemines	1	25	66.4	− 1.6	80	19	50	14	22	5.30	+ 1.92	2.00	0	3	21	3	6	nw.	Graham Myers.
Cades	St. Martin		3	67.8		87	19†	43	13	33[a]	4.34		1.94	0	4	22	6	2	s.	C. E. Smedes.
Calhoun	Ouachita	180	25	62.3	− 1.8	87	17†	37	14	39	6.30	+ 1.77	2.00	0	6	19	7	4	nw.	North Louisiana Exp. Sta.
Cameron	Cameron	6	20	63.1	− 6.0	89	21	35	13	37	7.82	+ 4.35	4.33	0	4	21	5	4	se.	Adolph Bruckert.
Carrollton	Orleans	7	2	66.4		87	20	40	14	32[a]	5.43		2.98	0	4	24	1	5		Loyola College.
Cheneyville	Rapides	67	25	66.2	− 2.2	89	18	40	15	44	10.35	+ 5.59	2.80	0	5	18	5.	7	s.	Walter I. Tanner.
Cinclare	West Baton Rouge		3	65.6		89	20	39	13	33	4.05		2.45	0	4	21	2	7	ne.	Cinclare Central Factory.
Clinton	East Feliciana	113	25	63.8	− 3.5	85	20	37	14	34	4.62	− 0.33	1.97	0	4	19	0	11	n.	John A. White.
Collinston	Morehouse	65	12	64.1	− 0.6	89	2†	37	13	40	5.78	+ 1.12	2.00	0	7	18	6	6	nw.	John B. Reily.
Covington	St. Tammany	39	21	65.6	− 2.4	92	20	39	14	40	9.35	+ 5.03	3.40	0	5	19	5	6	n.	Cecile P. Champagne.
Dodson	Winn		4	64.0		87	20†	38	12	38	9.09		4.63	0	6	18	7	5	nw.	J. P. Lucas.
Donaldsonville	Ascension	33	25	67.4	− 0.8	90	20	41	13†	37	4.50	+ 0.18	2.50	0	4	23	1	6	n.	John F. Park.
Dutchtown	...do		2								2.78		1.50	0	4	18	10	2		Picard & Geismar (Ltd.).
Farmerville	Union	177	25	61.4	− 3.5	85	17†	36	11†	38	5.79	+ 0.54	2.00	0	4	22	4	4	n.	W. P. Chandler.
Florence	Vermilion		1	68.2		85	20	44	11	34	5.30		3.30	0	2	17	12	1	nw.	White Lake Land Co.
Franklin	St. Mary	10	21	67.6	− 1.3	89	21	40	14	38	3.97	− 0.35	2.15	0	6	20	7	3	e.	J. M. Bonney.
Franklinton	Washington		3	65.5		90	20	37	13†	41	5.90		3.00	0	5	15	3	12		Herbert R. Babington.
Grand Cane	De Soto	302	19	55.8	− 8.6	80	16†	27	12	43	4.71	+ 0.13	1.70	0	5	18	5	7	s.	G. Foster Provost.
Grand Coteau	St. Landry	93	25	65.8	− 2.6	90	20	40	12	34	7.25	+ 3.05	3.20	0	5	13	6	11	n.	St. Charles College.
Hammond	Tangipahoa	44	21	65.8	− 1.5	92	21	37	14	42	3.20	− 1.30	1.35	0	3	24	2	4	se.	C. C. Carr.
Houma	Terrebonne		25	66.8	− 2.1	85	5†	37	13	33	2.15	− 1.97	1.40	0	4	24	0	6	s.	J. M. Foote.
Jena	La Salle		2	64.4		90	17	34	14	43[d]	10.52		6.75	0	3	20	8	2	nw.	C. E. Wilbanks.
Jennings	Calcasieu	30	16	67.2	0.0	90	19†	42	12†	40	7.97	+ 4.34	4.90	0	3	13	11	6	se.	J. F. Buch.
Laark	Morehouse		1	59.9		95	3	28	11†	48	6.61		2.60	0	4	21	1	8		P. M. Donley.
Lafayette	Lafayette	36	25	66.2	− 1.9	88	20	41	13†	34	6.82	+ 2.88	2.28	0	6	16	3	11	n.	J. J. Davidson.
Lake Charles	Calcasieu	22	25	63.4	− 4.0	88	20	30	11†	55	5.29	+ 2.20	3.00	0	4	15	6	9	n.	George Boudreaux.
Lakeside	Cameron	9	2	65.2	− 2.6	84	20	43	12	29	7.70	+ 4.04	3.90	0	3	25	0	5	sw.	L. J. Nunemacher.
La Rose (near)	La Fourche		2																	Louisiana Delta Farms Co.
Lawrence	Plaquemines	6	22	68.4	+ 0.2	89	20	44	14	32	3.75	+ 0.31	1.53	0	4	26	2	2	n.	H. C. Warmoth.
Liberty Hill	Bienville		25	65.0	− 1.1	91	17	35	13	46	3.17	− 1.23	1.30	0	5	23	2	5	s.	E. A. Crawford.
Logansport	De Soto	192	9								4.73		1.75	0	4	17	3	10	s.	Bettie M. Dennis.
Melville	St. Landry	45	25	64.8	− 3.2	90	30	38	13†	40	3.90	− 1.30	2.00	0	1	19	3	8	se.	Charles B. McNeill.
Minden	Webster	194	25	62.3	− 2.9	89	18	34	12	45	5.33	+ 1.60	2.20	0	5	21	6	3	e.	Ethel Fort.
Monroe	Ouachita	82	25	64.4	− 1.5	87	17†	40	14	38	8.00	+ 3.68	2.90	0	8	19	1	10	sw.	Kathryn Key.
Morgan City	St. Mary	14	7								2.75		1.80	0	4	17	3	10	se.	Virgil E. Kinsey.
Napoleonville	Assumption		4	68.2		89	22	42	13	30	2.60		1.60	0	3	21	4	5		Leon Godchaux Co.
Newellton	Tensas		6																	John D. Fultz.
New Iberia	Iberia	15	25	66.8	− 1.7	85	20	43	12	28	4.28	− 0.23	2.20	0	4	19	5	6	n.	Mrs. John A. Gebert.
New Orleans (1)	Orleans	51	42	67.5	− 0.4	86	20	49	14	23	4.90	− 0.01	2.21	0	6	22	7	1	se.	U. S. Weather Bureau.
New Orleans (2)	...do	18	25	67.1	− 1.3	88	20	41	14†	35	5.43	+ 1.04	3.11	0	5	19	5	6	s.	Sugar Experiment Station.
Opelousas	St. Landry	83	21	62.5	− 5.4	82	21	37	13	33	9.24	+ 4.58	4.56	0	6	10	0	20	e.	Andrew Moresi.
Paradis	St. Charles		2								3.15		1.85	0	3					R. E. Boyce.
Pearl River	St. Tammany	20	7								4.15		1.52	0	4	22	2	6	e.	George F. Bancks.
Plain Dealing	Bossier	268	21	62.4	− 1.8	88	17†	34	11†	44	4.24	− 0.39	1.82	0	4	22	7	1	ne.	Leon Sanders.
Rayne	Acadia	44	21	67.0	− 1.6	88	20	40	13	36	5.70	+ 2.20	2.80	0	5	20	0	10	n.	A. P. McNeil.
Reserve	St. John Baptist		12	67.4	+ 0.3	100	2	38	14	47	2.94	− 0.92	1.24	0	4	20	6	4		Leon Gochaux Co.
Richland Plantation	Rapides		1	64.3		84	4	42	13	28	10.54		2.65	0	6	23	1	6	n.	A. B. Pendleton.
Robeline	Natchitoches	147	17	63.0	− 1.6	90	21	33	13	48	11.00	+ 6.31	6.15	0	4	17	8	5	s.	Anna R. McCook.
Ruston	Lincoln	312	18	64.2	− 0.2	89	17†	38	11†	34[a]	5.89	+ 1.43	2.40	0	6	21	5	4	n.	Andor M. Larson.
St. Francisville	West Feliciana	115	10	64.6		87	21	39	14	30	5.90		2.72	0	5	20	6	4	ne.	G. W. Newman.
Schriever	Terrebonne	17	21	67.2	− 1.1	89	18†	39	14	40	2.18	− 1.53	1.75	0	2	22	5	3	w.	William H. Gautreaux.
Shreveport	Caddo	249	42	64.2	− 1.6	86	20	39	12	33	4.17	− 0.41	2.35	0	6	20	3	7	s.	U. S. Weather Bureau.
Simmesport	Avoyelles	42	7								8.41		3.97	0	6	13	0	17	w.	Cassius T. Leigh.
Southern Univ. Farm	Jefferson		16								7.50	+ 2.77	4.00	0	4	23	5	2	se.	F. L. St. Martin.
Sugartown	Calcasieu		20	66.2	− 0.8	85	20	41	14	36	9.57	+ 5.48	5.35	0	3	19	8	3		G. W. Richardson.
Tallulah	Madison	91	6	62.8		89	19	38	13	38	5.30		1.59	0	5					Neal T. Halt.
Walker	Livingston		3	64.0		89	21†	32	14	53	4.00		1.50	0	3					Westley Milton.

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
* * Temperature extremes are from observed readings of the dry bulb means are computed from observed readings.
† Also on other dates. T. Precipitation is less than 0.10 inch rain or melted snow.

TABLE 2.—*Daily precipitation for April, 1913. District No. 7, Lower Mississippi Valley.*

Stations.	Watershed.	Day of month.																														Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Colorado.																																
Buena Vista	Arkansas			.10				*	.75										.20			T.	T.			.05						1.10
Calhan	Big Sandy								.85	.20									.03			.02		T.								1.10
Canon City‖	Arkansas				.08				.54	.20									.01	.02					.06							0.91
Colorado Springs	Fountain			T.						.09	.43	T.						.02	.02	.13		.07		.06	T.	.03		T.				0.85
Cripple Creek	Oil Creek																															
Cuchara Camps	Cucharas		T.	.34			.12	T.	1.01	.32									.09				.03	.59	.07							2.57
Eads	Big Sandy			T.					.80											T.			T.		1.10							1.90
Fairview	St. Charles			.40			*	1.44															*	2.56								4.40
Fremont Experiment Station.‖	Fountain	T.	.02	.04			T.	1.02	.16	.04								.05	.43	T.		.03	.16	.06	.05							2.06
Garfield	Little Arkansas	T.		.58				.22	.55	.18								.12	.26				T.	.19	T.							2.10
Hamps	Big Sandy			T.					.70	.25									.04	.10	.03		.32	.02								1.45
Hermit Lake	Grape Creek			.56				.29	1.20	.35									.17				.13	.93								3.63
Hoehne (near)	Purgatoire			.05					.90	.10										T.			T.	.08								1.13
Holly	Arkansas								.08													.01	.06	.07								0.22
La Junta	do			.01			.07	T.	.84											.63			T.	.24								1.79
Lake Moraine	Fountain			.16	.04			.08	.61	.20									.24	.20		T.		.22		.14						1.89
Lamar	Arkansas						.74															.01	.35	.35								1.45
Las Animas	do								1.25											.08		.20		.39								1.92
La Veta Pass	Cucharas			T.		T.			.74															.66								1.40
Leadville	Arkansas			.15	.20				.13	.02								T.	.47	T.		T.	.02	.12	.04	.14						1.29
Limon (near)	Big Sandy			T.					.75										T.			.05		T.								0.80
Madrid	Purgatoire		.08						.87	.03									.10	.01		.02	.03	.11								1.25
Marshall Pass	Arkansas			.17	.17				.78										.17					.17		.17						1.63
Maxey	do								.55												.50	.30	.55									1.90
Monument	Fountain				.06			*	*	.82														.46		.12						1.46
North Lake	Purgatoire			.46	.07				1.14	.27	.09													.52	.08							2.63
Pueblo	Arkansas			T.			T.	.01	.44															.02								0.47
Rocky Ford	do								1.25											.16			T.	.24								1.65
St. Elmo	Chalk Creek	T.		.14				.07	.28	.42									.35				.07	T.								1.25
Salida‖	Arkansas			T.				T.	.82										.14					.05								1.01
Santa Clara	Huerfano																															
Sheridan Lake	Arkansas																															
Stonewall	Purgatoire			.35	.03				1.01	.16	T.								.04				T.	.29								1.88
Trinidad	do			.11					.80	.05	.01								T.	T.		.02	.05	.36	.03							1.43
Two Buttes	Arkansas								.50											T.	.17	.14	.18	.64								1.63
Two Buttes Reservoir.	do			T.		T.			.55											.31	.10	.02	.32	.79								2.09
Victor	Oil Creek			.09	.10			T.	.34	.12									T.	.18		T.		T.	T.	.02						0.85
Vilas	Cimarron							.75													.05	.15	.70	.40								2.05
Westcliffe	Grape Creek																															
Winfield	Clear Creek	.03	.03	.04			.02	.26	.02									T.	.54	T.		T.	T.	.04	T.	.07	T.	T.				1.05
Woodman Sanatorium.	Fountain			T.				*	*	.82									T.	.05		T.		.19		.05						1.11
Wortman	Arkansas		T.	T.	T.	T.	.10	.10	.10	T.	T.	T.					T.	T.	.10	.10	.20	.15	.10					T.	T.	T.	.10	1.05
Yoder	do			T.				.05	.70	.20												.10	.04	T.								1.09
New Mexico.																																
Abbott	Canadian			.11					.78	.15	.03										.75		.60	.02								2.44
Albert	do			.35																		1.06	1.01	.42								2.84
Aurora	do			.09					.40	.20											.08	.02	.16	.04								0.99
Bell Ranch	do			T.					.07											T.	T.	1.22	1.35	1.16								3.80
Black Lake	do			.04					.13	.05													.28	.04								0.54
Cabeza	do			.20					T.	T.									T.	T.		1.00	.80	.72								2.72
Campana	do								.10									T.			1.17	T.	.61	.65	.08							2.61
Chacon	do									.22													.49									0.71
Cimarron (near)	do			.11					.42	.03								T.	T.		T.	.24	.31	.08		T.						1.19
Clayton	do						.07	.11													.85	.66	1.22	.03								2.94
Clovis	Red																															
Cuervo	Canadian																				.85	.50	.65	T.								2.00
Dawson	do			T.					.40												.02	.11	.15									0.68
Elizabethtown	do			.02					.20													.22	.12									0.56
Folsom	Dry Cimarron			T.	T.			.03	.60	T.									T.	.01	T.	.06	.44	.26	.02							1.42
Fort Union	Canadian			T.				T.	.30	T.											.30		.38	T.								0.98
Hayden	do			.02				T.	.10									T.	.03	.03		.92	1.01	.16	.05							2.32
Hoosier Ranch	do			.14					.08												.04	.50	.84	.53								2.13
Johnsons Park	do							T.	.63									T.		.20	.12		.40	.03								1.38
Johnsons Ranch	do								.25												.16	.68	.09	.45								1.63
Kappus	do																		T.		.90	.35	.80	.40	T.							2.65
Lake Alice	do								.90													*	.09	*	.25							1.24
Logan	do																				T.	1.40	.91	.68								2.99
Lykins (near)	Red																			.24	*	1.98	.24									2.46
Maxwell (near)	Canadian							.63		.06												.31	.36									1.36
Melrose	Red																															
Miami Ranch	Canadian								.34															.18								0.52
Mills (near)	do			.20					.25	.10											.24	.45	.64	.10								1.98
Montoya	do									T.											.75		.73	.38								1.86
Mount Dora (near)	do																															
Nara Visa	do																			T.		1.04	.78	.23								2.05
Palo Verde	do			.23				T.	.31		T.							T.		T.		.70	.77	.25								2.26
Pasamonte	do								.25												.67		.60	.28								1.80
Pleasant View	do			.15					.20													.79	.54	.08								1.76
Portales	Red																															
Raton	Canadian								.70												.20	.12		.18	.10							1.30
Rociada	do																															
Rosebud	do			T.															.38		1.10	1.05		.12								2.65
Roy	do			.50					.69	T.											.70		1.00	.42								3.31
Roy (near)	do			.25				.05	.11	.30											.96	.10	.90	.45								3.12
St. Vrain (near)	Red																				*	2.61	.15									2.76
San Jon	Canadian								T.										T.	T.		1.70	.71	.64								3.05
Solano	do								.32	T.									T.		.04	.88	.69	.49								2.42
Springer	do				.05				.50	.08											.10	.20	.35	.04								1.32
Taylor	do			T.																	T.		.65	.02								0.67
Texico (near)	Red																			.47	1.33		.35	.05								2.20
Trementina	Canadian								.16		.02											.80	.84	.50								2.32
Tucumcari	do								T.											.85	*	1.65	*	1.50								4.00
Valley	Dry Cimarron																															
Vance (near)	Canadian																															
Vermejo Park	do								.63											T.	.30	.12	T.	.15								1.20
Wagon Mound (near)	do			.09					.52	.23											.23		.70	.05								1.28

TABLE 1.—*Climatological data for April, 1913. District No. 7*—Continued.

Stations.	Watershed.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total.
Texas.																																
Amarillo	Canadian						T.	T.	.03	T.										T.	T.	.13	1.14	.46							T.	1.76
Archer City	Red								1.05															1.41								2.46
Arthur City ‖	do			T.	.28				T.	1.00	.39														.73							2.40
Bonham	do			.08					.10	.32														.63								1.13
Canadian	Canadian																							1.76	.02							1.78
Childress	Red								.90														1.35									2.25
Chillicothe	do								.41	.07														1.33								1.81
Clarendon ‖	do								.88	.11													T.	.35	.04							1.38
Clarksville	do			.63					.60	1.53														.90								3.66
Claude	do																															
Dalhart ‖	Canadian																			.03			.18	.67								0.88
Denison ‖	Red								.10																.40							0.50
Finley ‖	do										1.60	.75														.90						3.25
Henrietta ‖	do								.95															1.53	.20							2.68
Jefferson	do				.75					.40	1.20															1.00						3.35
Memphis	do									2.25															1.00							3.25
Miami	Canadian							T.	.90		T.													1.01	.09	T.						2.00
Ochiltree	do								.27																					.83	.27	1.37
Panhandle	do				.02													2.00	.50													2.52
Paris ‖	Red			T.	.71				.06	1.10	.65														.70	T.						3.22
Plemons	Canadian								.27												T.	.01	.32	.42								1.02
Quanah ‖	Red								.35															1.35								1.70
Ringo Crossing ‖	do				.25					.80	.71														.75							2.51
Romero	Canadian																															
Sherman ‖	Red			T.	T.			T.	T.	T.														T.	.67						0.67
Stratford	Canadian								.20													.01	.23	.42	.05							0.91
Tulia	Red							.92													.70	.15	.75	.30	T.							2.82
Wellington	do					.10	.12	1.50																.80								2.52
Wichita Falls	do								1.75															1.70								3.45
Winfield	do			.10					1.10	.90														.92								3.02
Kansas.																																
Alden	Arkansas							T.	.17	.12	.04	T.								.21				.78	.11	.08						1.51
Anthony	do								.32		T.												T.	.53	T.	.05						0.90
Ashland	Cimarron								.80	.02	T.													1.55	.02							2.39
Burlington	Neosho						.40		.03															.31								0.74
Chanute	do			.21					.45	.27	T.													.28	.13							1.34
Cimarron	Cimarron								.25	T.											.07		.15	1.15	.06	T.						1.68
Coffeyville	Verdigris						T.	.76		.23																.02						1.01
Coldwater	Cimarron								.54	T.	T.	T.										T.	T.	.71	T.	.04						1.29
Columbus	Neosho		.01	.27				T.	.52	.31	T.												.02	.62								1.75
Coolidge	Arkansas								.35												.25	.51	.60									1.71
Cottonwood Falls	Neosho							T.	.57	.10	T.									.14			T.	.47	.04	.10						1.42
Council Grove	do		.49					.35	.55	.28													.06									1.73
Cunningham	Arkansas								.30		T.													.60	T.							0.90
Dodge City	do								.19	T.	.02								T.		.01	T.	1.37	.47	.01	.05						2.12
El Dorado	do							T.	.75	.25													T.	.46	.11	.21						1.78
Ellinwood	do							.01	.22	.02	.01	.01								.21	T.		T.	.36	.20	.01						1.05
Emporia ‖	Neosho							.47	.54	.18	.10													.32		.16						1.77
Eureka	Verdigris								.60	.03															1.15	.02						1.80
Fall River	do								.10														T.	.40	.25	T.						0.75
Fargo	Cimarron								.17														1.00	.25								1.42
Fredonia	Verdigris		T.	.35					.24	T.	T.													.38	T.	T.						0.97
Garden City	Arkansas			T.					.50	T.	T.								T.				.05	.50	T.							1.05
Great Bend ‖	do								.28	.06	.04									.31			.28	.33	.22							1.52
Greensburg	do								.50	T.	T.									1.30				.60		.10						2.50
Grenola	Verdigris			.14					.07		T.												T.	.42	.22	T.	.05					0.90
Howard	do								.12															.43	T.	.21						0.76
Hutchinson	Arkansas							T.	.28		T.	.01						T.	T.					.18	.77	T.						1.24
Independence	Verdigris			.01					.71	.01														.45	T.							1.18
Iola	Neosho							.67	.11	.22														.30	T.	T.						1.30
Irene	Arkansas			T.					.85	T.												.25	.64	.55	T.							2.29
Jetmore	do								.15	T.	T.									.46				1.90	.20	.02						2.73
Kingman	do								.10											.05				.68	.05	T.						0.88
La Crosse	do		T.	T.				.02	.20	T.	.05													.99	.16	T.						1.42
Lakin	do						T.		.36														T.	.60								0.96
Larned	do			T.					.62	.01	.01									.34				.76	.15	.01						1.90
Lebo	Neosho							.27	1.00	T.	.02												T.	.23	T.	T.						1.52
Le Roy ‖	do								.94	T.															.32							1.26
Liberal	Cimarron	T.							.32												.55	T.	.18	.78								1.83
Macksville ‖	Arkansas									.50	.03	.02								.17				.16	.44							1.32
McPherson ‖	do							.06	.03	.52	.05													.16	.68							1.50
Madison	Verdigris		T.						.67		T.									T.			T.	.31	.12							1.10
Marion	Neosho		T.	T.	T.			.03	.38	.15	.04	T.											.03	.42	.27	.05						1.37
Medicine Lodge	Arkansas							.35			T.									.03				.40	T.	T.						0.78
Medora ‖	do																															
Minneola	Cimarron								.44		T.											T.		1.29	.05							1.78
Mount Hope	Arkansas								.12	.06														.39	.04							0.61
Neosho Rapids ‖	Neosho							.42	.42																.30		.05					1.19
Ness City	Arkansas	T.		T.			.50		.18	.03	.02								.08				.95	.85								2.61
Newton	do								.07	.16	T.													.80	.02	.02						1.07
Norwich	do								.40	T.	T.	T.											.01	.53	.01	T.						0.95
Oswego	Neosho		.02	.18				.02	.42	1.26													.03	.57	T.							2.50
Plains	Cimarron								.10												.30	T.	T.	1.35								1.75
Pratt	Arkansas								.25	T.	T.									.20				.40	.03							0.88
Richfield	Cimarron								.36											T.	T.	T.	.32	.46								1.14
Rome	Arkansas								.52														T.	.74		.02						1.28
Sedan ‖	Verdigris			.05					.18	.10															.55		.08					0.96
Toronto	do									.12														.73								0.85
Ulysses	Cimarron								.51													T.		.70								1.21
Walnut	Neosho								.50	.45														.40	.01							1.36
Wellington	Arkansas								.74	.02														.31	.17	.12						1.36
Wichita	do						1.15		.07		T.													.58	T.	.03						1.83
Winfield	do						.25					.25												.65		T.						1.15
Yates Center	Verdigris								.22	T.	T.													.37	.18	T.						0.77
Oklahoma.																																
Ada ‖	Canadian			T.					1.45	.32															.90							2.67
Altus ‖	Red						.01	.74																.90								1.65
Alva	Arkansas										T.									T.						T.						T
Apache	Red							.37	1.24															.95								2.56
Arapaho	Washita								1.15															.65								1.80

TABLE 2.—*Daily precipitation for April, 1913. District No. 7*—Continued.

Stations.	Watershed.	Day of month.																														Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Oklahoma—Contd																																
Ardmore ‖	Red								.90															.34	.58							1.82
Bartlesville ‖	Arkansas								1.05	T.															.35		T.					1.40
Beaver	Canadian								.23													T.	.01	1.20		T.						1.44
Blackburn	Arkansas																															
Cache	Red							.30	.90															.90								2.10
Calvin	Canadian			.08					.78	.30	.32														.54							2.02
Chandler ‖	do								.43	1.09														T.	.51							2.03
Chattanooga	Red								.56															1.11								1.67
Chickasha ‖	Washita							.12	1.00	T.														.46	.20		T.					1.78
Cloud Chief	do								.85																	T.						0.85
Crawford	Canadian																															
Durant ‖	Red								.12	T.	.02													.38								0.52
Eldorado	do							T.	.80															1.35								2.15
Elk City	do																															
El Reno	Canadian							.36	1.20															.51								2.07
Enid	Cimarron			T.					.44	.32														.25	.45							1.46
Erick	Red							1.69														.70										2.39
Eufaula	Canadian																															
Fairland	Arkansas			.21					1.57	.65														.83								3.26
Fort Gibson	do								.97	.82	.28														.62		T.					2.69
Frederick	Red							.09	.55															.93								1.57
Geary	Canadian		.06					.07	1.85															.82		T.						2.80
Goodwell	do																			T.	.02	T.	.10	.40							T.	0.52
Guthrie	Cimarron			3.00																				.60								3.60
Guymon	Canadian								.50														.33	.20								1.03
Hartshorne	do			.63																												0.63
Healdton	Red								.45	T.														.78		T.						1.23
Helena	Cimarron							T.	1.29															.40								1.69
Hennessey	do		.25					T.																.97								1.22
Hobart	Red								1.02															.62		.06						1.70
Holdenville ‖	Canadian			T.					.56	.46	.03														.61							1.66
Hooker	do	.02							.33												.02		.35	.36		T.						1.08
Hugo	Red			.19				.06	.46	.12														.79								1.62
Hurley	Cimarron						T.		T.													T.	.12	.21								0.33
Idabel	Red																															
Jefferson	Arkansas								1.03															.61								1.64
Kenton	Cimarron																															
Kingfisher	do		.03					T.	1.53														.01	.79		.02						2.38
Lawton	Red							.05	.75															1.10		.08						1.98
Lawtonka Lake	do																															
McAlester ‖	Canadian		T.	.09					.34	.12	.11														.59							1.25
Mangum ‖	Red								.90															1.10	.05							2.05
Marlow ‖	Washita								.50	.15														.20	.21							1.06
May	Canadian								.50															1.50	T.	T.	T.					2.00
Meeker	do								1.00															.55								1.55
Muskogee (1)	Arkansas			T.					1.49	.49														.61								2.59
Muskogee (2) ‖	do				.04				1.16	.14	.32													.66								2.32
Mutual	Canadian							.95														.37										1.32
Neola	Washita							.32	.56														T.	.83		T.	.05					1.76
Newkirk	Arkansas			T.					.65															.59	.15							1.39
Norman	Canadian								.67														T.	.78		T.						1.45
North Muskogee	Arkansas								1.23	.63	.31																					2.17
Oakwood	Canadian																															
Okeene	Cimarron							.43	.50														T.	.48		T.						1.41
Okemah	Canadian							.48	1.17	.60														.62								2.87
Oklahoma	do							.08	1.16														T.	.64		T.						1.88
Okmulgee	do			.18					1.22															1.20								2.60
Pauls Valley	Washita								.58															1.12		T.						1.70
Pawhuska	Arkansas								.92															.47	.26							1.65
Perry	do		T.					T.	.86														T.	.83		T.						1.69
Rankin	Red							.66	1.04													T.	.19	.51								2.40
Ravia	Washita								.38	.12														.61								1.11
Sac and Fox Agency	Canadian								1.03															.60								1.23
Shawnee ‖	do								.54	.30														.14	.42		T.					1.40
Snyder	Red																															
Stillwater ‖	Cimarron								3.13															.40	.31		.03					3.87
Tulsa ‖	Arkansas								2.33	.62															.48	T.	.03					3.46
Vinita	do																															
Wagoner	do								1.70	.93														.75								3.38
Waukomis	Cimarron		T.					T.	.82		T.												T.	.90	T.							1.72
Waurika	Red								.82															1.50			T.					2.32
Weatherford ‖	Canadian								1.71	.35													T.	.45	.40							2.91
Webbers Falls	Arkansas								1.50	.50														1.10								3.10
Whiteagle	do																															
Woodward	Canadian								.64		T.											T.		.45	.02							1.11
Wyandotte	Arkansas								2.20	.70														.60								3.50
Missouri.																																
Belle	Meramec			.48					.60	3.90																						4.98
Birchtree	Black			.66				.40	.57	.23															.64	.45						2.95
Cape Girardeau	Mississippi			T.	.20				.10	.70	.40			T.											.02	.20	.40	.05				2.07
Cardwell	do			1.10				.15		1.40	.46														.40	.46	T.					3.97
Caruthersville	do			1.00	.20			.07	T.	1.28	.27			T.											.10	.98	.21					4.11
Cassville	White			.25				T.	.99	.82	.05													.63								2.74
Dean	Neosho			.16					1.06	.90														.57								2.69
Doniphan	Black			1.15				.30	.10	.78	.05			T.											.75	.50	.10					3.73
Gano	Meramec			.27				.86	.95	.25	.04		T.												.65	.27	.09					3.38
Goodland	Black			.58				.90		1.03	.04															.41						2.96
Hollister	White			.25					.40	.60														.75	.20							2.20
Ironton ‖	Mississippi			.45	.25			.02	.70	1.52	.05		T.	.02	T.					T.					.56	.38	.26	.07				4.28
Jackson	do		.10	1.25				.25	.30	.70				.04											.05	.56	.12					3.37
Joplin	Neosho			.35					.70	.70	T.													.42			T.					2.17
Koshkonong	Black			.53				.47	.15	.32			T.												.71	.39	T.					2.57
Lamar ‖	Neosho				.59				.13	.93	.59														.48	.09						2.81
Marble Hill	Mississippi			1.20					.50	.40	.70														.40	.50	.05					3.75
Mountaingrove	White			.49				T.	1.30	1.47	.12		T.												1.08	.38	.11					4.95
Mount Vernon	Neosho			.23					.93	.70	T.													.49								2.35
Neosho	do			.53				T.	1.70	.94	.08													.60	.04	T.						3.89
New Madrid ‖	Mississippi		.13		.77				.88	.01	.25	.02		.20	.03									.10		.77	.35	.45				3.96
Oakfield	Meramec			.41				.29	2.61	.07			.24												.18	.26	.09					4.15
Rolla	do			.12				.74	1.44				.10												.45	.33	.15					3.33
Springfield	White			.10				.01	.58	.77	T.	T.	T.								T.			.57		T.	.02					2.05

TABLE 2.—*Daily precipitation for April, 1913. District No. 7*—Continued.

Stations.	Watershed.	Day of month.																														Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Kentucky.																																
Blandville	Mississippi			.88				.19	.09	1.15	.24		.09												T.	.98	.03	.03				3.68
Tennessee.																																
Arlington ‖	Mississippi				1.15					.72	2.50	.05													T.	.75	.45	.48				6.10
Bolivar ‖	do				1.31				T.	1.69	.74			T.	.29											.78	.17	.10	T.			5.08
Brownsville ‖	do				1.10				.04	.55	3.01	.14			.15										.03	.52	.55	.17				6.26
Covington ‖	do				.75					.90	2.15														.10	.50	.57	.25				5.22
Dyersburg ‖	do				.90				.10	1.10	2.10			T.												.50	.60					5.30
Jackson	do			T.	1.00				.25	1.40	1.02			.05	.15										.05	.80	.43	.13				5.28
Kenton	do				.80			.57	.10	1.74	.86			.13	.02										T.	1.06	.09					5.37
Memphis	do			.88					T.	3.42	.06		.01	.01											.12	.67	.23					5.40
Milan ‖	do				1.05			T.	.04	.36	1.30	.33		T.	.07										T.	.70	.31	.02	T.			4.18
Trenton	do			.50	.55			T.		3.10	.70			T.												.80	.15					5.80
Union City	do																															
Arkansas.																																
Alicia	White			.50				T.		2.04															1.05	1.00						4.59
Amity	Ouachita			1.00						4.50														.85		.25						6.60
Arkansas City ‖	Mississippi				1.70					.06	1.39														1.45	.90						5.50
Batesville ‖	White			T.	.96			T.	T.	.92	1.33														.75	.20	.12					4.28
Bee Branch	Arkansas			.70				T.	.10	1.90				T.											.75	.40						3.85
Benton ‖	Ouachira																															
Bentonville	Arkansas			.11					.97	1.23										T.				.68								2.99
Bergman	White			.82				.04	.25	1.37														.97	.16							3.61
Black Rock ‖	do				1.25			.24	.04	.99	.73														.66	.22	.17	.08				4.38
Brinkley ‖	do	T.			1.21					2.73	1.83														.83	.16	.28	T.				7.04
Calico Rock ‖	do				1.30			1.00	.10	.85	.20														.45	.25						4.15
Camden ‖	Ouachita				.77				.01	1.69	.68														1.08	.13	.01					4.37
Centerpoint	Red			1.25					1.50	.62														.85								4.22
Clarendon ‖	White				1.00				T.	2.96	2.69														.85	.25	.15	.02				7.92
Conway	Arkansas			.57					T.	5.23														.05	.88	.44						7.17
Corning	White			T.	.08			.24	.02	1.06	.09			.10											.53	.46	.05					2.63
Dardanelle ‖	Arkansas			.11	.58				.18	.68	.80														.78	.40						3.53
Dodd City	White			.57				.10	.35	1.20														.90	.22							3.34
Dumas	Arkansas			1.05					.75	1.42														1.05								4.27
Dutton	White			1.12					.61	.83														.99								3.55
Eldorado ‖	Ouachita				.81					2.00	1.20														1.53	.33	.08					5.95
England ‖	Arkansas				1.88			T.		1.90	2.56				T.										1.02	.25	.02	.02	T.			7.65
Eureka Springs	White			.34					.50	1.04	T.													.44	.30							2.62
Fayetteville	do			.15					1.96	.80		.07								.24				.62	.10							3.94
Fordyce	Ouachita			1.17					1.75	.78														1.10	.30							5.10
Fort Smith	Arkansas		.93	.32				T.	.29	.29										.11				.76	T.	T.						2.70
Fraziers Turnpike	do			.80						5.44	.55													.48	*	.32						7.59
Fulton ‖	Red				.34					.50	.60														.92	T.						2.36
Georgetown	White				1.76					4.16	1.20														.92	.30	.02	T.				8.36
Hardy	do			.63				.45	.10	.91															.93	.31						3.33
Helena ‖	Mississippi			1.37					.07	.97	3.04														.40	.50	.03					6.38
Hot Springs	Ouachita			1.20						7.25															1.10	.26						9.81
Huttig	do				.85			.01		1.36															2.06	.58	.01					4.87
Jonesboro	White			.80						1.80	.15														.15	.55	.01					3.46
Junction	Ouachita			.55				T.	1.10	1.40														1.80	.29	T.						5.14
Lake Farm	Arkansas		T.	.52	.49					2.55	.13														1.55	.14	.03					5.41
Lewisville	Red			1.33				.05	.61	1.10												.10		1.00	.03							4.22
Little Rock	Arkansas			.95				T.	.82	8.81														.63	.01	.23	.01					11.46
Lutherville	do			1.23				T.	.25	1.41	.11													.96	.04	.20						4.20
Malvern ‖	Ouachita				1.05					1.60	4.22														1.40	.25	T.					8.52
Mammoth Spring	White			.84				.40	.14	.43															.42	22	.02					2.47
Marked Tree ‖	St. Francis																															
Mena	Ouachita		.08	.67					.38	1.23														1.08								3.44
Newport ‖	White			.12	1.05			.02		1.62	1.05														1.00	.25	.10					5.21
Pine Bluff ‖	Arkansas				.93					2.02	1.80														1.46	.56	.05	.04				6.86
Pocahontas	White			.89	.07			.56		1.01															.64	.36	.24					3.77
Pond	Arkansas			.15					1.03	1.42	T.									.21				.55								3.36
Portland ‖	Ouachita				1.33						1.36														1.36	.86	.03					4.94
Prescott ‖	do				.89				.05	.92	1.35														1.20	.17						4.58
Rogers	Arkansas			.22					.66	.28	.10													.58								1.84
Springbank ‖	Red			T.	1.30				T.	.58	1.60													1.12	.09							4.69
Stuttgart	Arkansas			.91					.03	4.25	.06														1.10	.27						6.62
Subiaco	do			1.06					T.	.47														.30	1.59	.86						4.28
Swain	White			.43					.24	.40			.04											1.13	.06							2.30
Texarkana ‖	Red				.32				T.	.33	.65												T.	T.	1.00	.03						2.33
Warren ‖	Ouachita				1.18					1.39	1.21														2.02	.37						6.17
Whiteclifts ‖	Red				.57				T.	.74	.48												T.		.86	.06						2.71
Wiggs	Ouachita			.94				T.	T.	6.18														.77	.33	.26	.04					8.52
Wynne ‖	St. Francis				1.31					2.00	1.50														.70	.27	.10					5.88
Mississippi.																																
Anguilla	Yazoo				2.45					1.26	.50			T.											1.35	.75						6.31
Austin	do			.15	1.36			T.	T.	3.42	.38			T.	T.										.37	.91	.04					6.63
Batesville ‖	do				1.60					.10	2.30				.15										.07	1.30	.25	.30				6.07
Big Creek	do				2.00					.75	.85			T.											.75	.30	.10					4.75
Canton	Big Black				1.30						.65			.02											1.73	.78						4.48
Charleston	Yazoo				1.55					.47	.90														.15	1.10						4.17
Clarksdale ‖	do				1.40					.66	2.18				T.										.50	.92	.06	.11				5.83
Cleveland	do				1.25			T.	T.	1.00	.66		T.	T.											.82	.92	T.					4.65
Coffeeville	do				1.85					.14	1.22			.43											.32	.88	.09					4.93
Corinth ‖	Mississippi				1.12	.03			.02	.36	3.46	.08			.20											.68	.15		.03			6.13
Crenshaw	Yazoo			1.20						4.20	.80														.10	.05	.20					6.55
Duck Hill	do				2.49			T.		T.	2.03		T.	T.											.41	1.32	T.					6.25
Edwards	Big Black				1.50					.10	2.25														3.00	1.95						8.80
Fayette	Mississippi				.68					.45	.96														4.00	.60						6.69
Greenville ‖	Yazoo				1.44				.03		1.51														1.16	.87	.05					5.06
Greenwood ‖	do				1.60					.02	1.85	.05													.04	1.63	.10					5.29
Grenada	do																															
Hernando ‖	do				1.51					1.28	1.66			T.											.25	.71	.22	.05				5.68
Hickory Flat	do				.80						1.25	.90		.01											.35	.90	.15					4.36
Holly Springs ‖	do				1.17					.26	2.38	.08		.01	.09										.04	.93	.24	.21				5.41
Kosciusko ‖	Big Black				1.77	T.					1.67	.06													.17	1.60	.99	.01				6.27
Malone	Yazoo				1.13					.06	2.02			.11										.02	.06	1.00	.26					4.66

TABLE 2.—*Daily precipitation for April, 1913. District No. 7*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Mississippi—Contd.																																	
Moorhead	Yazoo			1.97				T.		1.18	.63														.52	.82						5.12
Natchez ‖	Mississippi				1.03						1.94														1.55	2.35	.17					7.04
Pontotoc	Yazoo			1.00	.47			T.		T.				T.												1.00	1.70					4.17
Port Gibson	Mississippi				.74						1.67											T.			1.96	3.10	.15					7.62
Rosedale ‖	Yazoo				1.54					.05	1.10														.80	.85						4.34
Senatobia	do																															
Shoccoe	Big Black				2.18					T.	1.26			T.											1.60	.72						5.76
Suffolk	Mississippi				.36					2.20												T.			3.53	.22						6.31
Swan Lake ‖	Yazoo				1.60						1.40														.26	1.10		.10				4.46
Tchula	do				3.35				.30	1.60		T.	T.												1.05	1.05	T.					7.35
University	do				1.31					1.50	.70			.02											.15	1.05	.28	.04				5.05
Utica	Mississippi				1.29						1.93													T.	2.50	1.24						6.96
Vicksburg	do		T.	1.10	.98				T.	1.56														T.	3.51	.12						7.27
Water Valley	Yazoo			1.30				T.		1.60	.20			T.											.15	1.20	.30					4.75
Woodville	Mississippi				1.23					1.00	1.85													T.	2.40	.63						7.11
Yazoo City ‖	Yazoo				1.31					T.	1.85	T.		T.	.09										.65	1.98	.15					6.03
Louisiana.																																	
Abbeville	Coast	T.			1.27					1.95															1.86	.12						5.20
Alexandria ‖	Red				2.30					T.	2.37													T.	2.40	2.15						9.22
Amite ‖	Coast		T.		2.00						2.20															2.12	T.					6.32
Antioch	Red			.76	.07				.01	2.02	.06											.03		.12	1.49	.31						4.87
Avoca Island	Coast									2.20	.05														.80	.13						3.18
Baton Rouge ‖	do				.09	.76					2.55															.61	.12					4.13
Burnside	do				.38						1.75														.15	.50						2.78
Burrwood	do				1.60						2.00															1.70						5.30
Cades	do				1.16						1.94														.06	1.18						4.34
Calhoun	Ouachita			.85	1.40					1.19	.27														2.00	.59						6.30
Cameron	Coast									.82	4.33														1.54	1.13						7.82
Carrollton	do				.80						1.48														.17	2.98						5.43
Cheneyville ‖	Red				2.80						2.25														2.60	2.65	.05					10.35
Cinclaire	Coast			T.	.78					2.45															.75	.07						4.05
Clinton ‖	do				T.	.88					1.57														T.	1.97	.20					4.62
Collinston	Ouachita		.06	.40	1.62					1.06	.44													.20	2.00							5.78
Covington ‖	Coast			.55		2.00					3.20															3.40	.20					9.35
Dodson	Red			.57	2.00					1.08	.31													T.	4.63	.50						9.09
Donaldsonville ‖	Coast					.30					2.50															1.65			.05			4.50
Dutchtown ‖	do				.60						1.50														.50	.18						2.78
Farmerville	Ouachita			1.54						1.35															2.00	.90						5.79
Florence ‖	Coast									3.30															2.00							5.30
Franklin ‖	do	T.				.78					2.15	.06													T.	.95	.03					3.97
Franklinton	Pearl				.95					T.	1.45													T.	.20	3.00	.30					5.90
Grand Cane ‖	Red				.79					.48	1.70														1.69	.05						4.71
Grand Coteau	Coast	T.			1.90				T.	1.65														.40	3.20	.10					7.25
Hammond	do				.65						1.20														T.	1.35						3.20
Houma ‖	do				.10					1.40															.55	.10						2.15
Jena	Red				1.57					2.20														*	*	6.75						10.52
Jennings ‖	Coast										4.90															2.88	.19					7.97
Laark	Red			2.60						1.71														1.40	.90							6.61
Lafayette ‖	Coast				.03	2.22					2.28													T.	.76	1.35	.18					6.82
Lake Charles ‖	do										3.00														.17	2.02	.10					5.29
Lakeside	do										3.90														2.00	1.80						7.70
La Rose (near)	do																															
Lawrence ‖	do					1.53					1.15															.83	.24					3.75
Liberty Hill	Red			.55	.70					1.30	.10															.52						3.17
Logansport ‖	Sabine				.67					.87	1.75														1.44							4.73
Melville ‖	Red				1.05	.18	T.				2.00														.25	.32	.10					3.90
Minden ‖	do				1.15				T.	.23	1.55													T.	2.20	.20	T.					5.33
Monroe ‖	Ouachita					2.22		.01	.01	.01	1.49													T.	2.90	1.32	.04					8.00
Morgan City ‖	Coast					.18					1.80	T.												T.		.54	.23					2.75
Napoleonville	do				T.					1.60														.80		.20						2.60
Newellton	Mississippi																															
New Iberia	Coast				.78					T.	2.20															1.20	.10					4.28
New Orleans (1)	do				.64					.06	1.90													T.	1.20	1.07	.03					4.90
New Orleans (2)	do				.88						1.32														.02	3.11	.10					5.43
New Orleans (3)	do				1.00					.06	1.20														2.20	.24	.01					4.71
New Orleans (5)	do				.92					.04	1.40														2.28	.29	.02					4.95
New Orleans (6)	do				.65					.04	1.66														2.33	.52	.03					5.23
New Orleans (7)	do				.85					.05	1.79														2.36	.30	.02					5.37
New Orleans (8)	do				.84					.07	1.71														2.57	.99	.02					6.20
Opelousas ‖	do				1.72	.08					2.19														.31	4.56	.38					9.24
Paradis	do																							1.85	1.15		.15					3.15
Pearl River	Pearl					1.52					1.32															1.25	.06					4.15
Plain Dealing	Red			.90					.05	1.82														1.47								4.24
Rayne ‖	Coast					.30					2.20														.20	2.80	.20					5.70
Reserve ‖	do					.31				T.	1.24														T.	1.02	.37					2.94
Richland Plantation	Red				2.58					2.64														.03	2.62	2.65	.02					10.54
Robeline ‖	do				6.15						1.20														2.80	.85						11.00
Ruston	Ouachita			1.54						1.36												.03		2.40	.10	.46						5.89
St. Francisville ‖	Mississippi	T.			.99	T.					2.72														.09	1.90	.20					5.90
Schriever ‖	Coast										1.75															.43	T.					2.18
Shreveport	Red			.65					.29	2.06	.01													1.14	T.	.02						4.17
Simmesport	Coast				1.94	.24					1.83														.28	3.97	.15					8.41
Southern University Farm.	do				1.10						1.90														.50	4.00	T.					7.50
Sugartown	do									2.90														5.35	1.32							9.57
Tallulah ‖	Mississippi				.87						1.32														1.47	1.59	.05					5.30
Walker ‖	Coast				1.25					1.50															1.25							4.00

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

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 1913. District No. 7, Lower Mississippi Valley.*

Date.	Colorado.						New Mexico.				Texas.				Kansas.										Oklahoma.			
	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.§§		DodgeCity.		Ellinwood.		Iola.		Liberal.		Wichita.		Ardmore.§§		Bartlesville.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	83	45	50	25	74	40	75	42	70	37	85	45	85	57	82	46	84	38	78	44	84	40	79	47	86	54	82	54
2....	81	42	43	23	72	39	72	47	69	28	79	45	83	59	84	53	90	60	77	63	84	48	84	63	87	65	83	64
3....	73	34	27	7	42	30	62	32	50	30	54	36	74	64	61	32	85	40	74	42	71	39	76	41	80	70	76	68
4....	66	19	35	7	64	21	60	24	58	22	62	28	68	44	62	23	62	26	57	37	64	22	59	35	67	40	62	40
5....	70	34	52	18	74	30	71	39	73	25	72	35	71	39	78	38	78	40	72	36	79	38	73	39	76	36	74	36
6....	86	34	47	25	74	42	80	48	73	32	78	48	78	42	81	51	82	49	77	48	82	48	77	49	78	54	79	48
7....	67	42	40	20	52	40	65	39	62	31	71	51	75	49	70	46	75	54	75	60	69	48	79	58	76	57	73	54
8....	58	33	33	16	42	32	63	42	51	32	59	36	75	60	46	33	58	36	67	53	60	36	58	44	82	65	69	55
9....	38	30	26	12	41	28	58	34	43	25	52	32	63	61	40	30	42	35	59	40	45	30	46	36	60	47	53	50
10....	39	26	29	7	45	25	51	28	49	19	48	28	55	39	38	30	39	30	40	36	45	28	38	34	50	37	44	40
11....	60	25	44	7	62	25	67	32	59	23	58	28	50	38	56	34	56	32	54	36	59	28	55	35	55	38	58	38
12....	71	25	48	18	70	27	68	34	66	29	68	30	62	36	60	26	60	25	53	36	63	26	57	30	61	36	60	37
13....	75	28	53	21	70	30	78	35	70	31	71	33	68	36	71	30	70	26	61	34	72	28	65	34	68	37	65	36
14....	79	31	63	21	74	33	75	35	71	32	75	41	73	38	77	36	78	32	71	34	79	32	71	45	77	39	82	38
15....	87	36	48	25	76	37	68	38	72	29	86	43	82	42	86	46	84	40	79	40	90	43	79	51	85	44	84	48
16....	84	43	53	23	76	48	72	41	75	35	86	52	88	46	83	45	85	50	81	50	87	49	84	59	91	55	83	51
17....	86	38	50	27	73	38	85	43	74	38	87	49	90	54	87	43	90	40	87	53	88	45	87	58	97	57	88	59
18....	80	49	48	28	68	49	74	44	73	40	83	52	86	57	84	50	81	65	84	57	88	48	84	57	89	57	93	59
19....	78	48	49	25	63	43	68	42	73	36	76	53	85	56	79	50	77	47	77	51	81	49	79	54	85	57	84	56
20....	81	43	50	20	73	36	67	41	65	34	74	52	86	54	80	51	82	50	82	53	81	50	80	57	85	54	83	56
21....	70	48	48	28	72	48	62	42	64	42	65	49	87	59	74	52	79	49	82	52	67	52	79	60	84	55	86	58
22....	67	54	47	21	66	49	48	42	56	40	66	51	80	58	74	53	79	58	80	64	69	51	73	64	77	61	83	64
23....	59	33	21	7	52	30	40	33	48	26	51	33	71	58	53	35	70	40	70	50	61	34	69	40	68	56	69	62
24....	55	32	26	6	53	24	45	29	47	19	51	32	61	48	55	34	59	37	57	39	54	33	58	39	61	45	62	46
25....	61	36	34	17	56	36	60	38	55	23	61	35	71	44	57	34	64	33	66	33	60	32	61	42	70	41	69	36
26....	75	35	47	20	70	28	72	40	66	28	71	40	74	44	73	35	72	30	66	38	75	36	64	38	74	43	70	46
27....	85	41	54	24	81	37	78	45	74	32	82	45	87	41	82	45	81	39	72	48	79	40	77	47	85	50	80	50
28....	89	44	54	26	82	45	81	47	77	30	83	48	80	55	78	44	78	43	71	41	87	43	74	45	90	51	75	50
29....	89	51	55	29	81	41	78	46	76	33	83	50	86	53	86	48	87	47	79	45	88	64	83	50	89	51	83	51
30....	88	58	56	29	81	41	81	42	76	39	83	53	87	53	85	56	86	52	87	55	87	55	84	58	89	54	88	58
Mns..	72.7	37.9	44.3	19.4	66.0	35.7	67.5	38.8	64.5	30.7	70.7	41.8	76.0	49.5	70.7	41.0	73.8	41.4	71.2	45.6	73.3	40.5	71.1	47.0	77.4	50.2	74.7	50.3

Date.	Oklahoma.														Missouri.										Blandville, Ky.		Jackson, Tenn.	
	Enid.§§		McAlester.§§		Mangum.§§		Muskogee.§§		Oklahoma.		Weatherford.§§		Woodward.		Caruthersville.		Ironton.§§		Lamar.§§		Olden.		Springfield.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	83	42	83	57	86	45	84	54	83	47	86	45	82	38	75	45	74	34	79	48	.....	.....	76	50	71	45	77	43
2....	86	44	83	65	93	38	80	64	81	62	87	60	91	40	80	67	82	49	76	49	.....	.....	74	60	79	56	81	57
3....	65	50	75	64	90	53	74	66	71	43	62	56	80	45	74	61	71	50	75	63	.....	.....	70	41	74	61	82	63
4....	65	35	62	42	92	47	60	40	60	37	66	34	64	29	61	50	55	42	57	41	.....	.....	50	39	61	47	65	55
5....	80	39	75	39	88	48	68	39	72	40	74	34	76	51	64	40	64	27	67	37	.....	.....	66	37	59	38	72	53
6....	83	47	79	52	80	40	74	46	77	51	80	41	82	64	76	42	76	37	76	38	.....	.....	73	48	71	45	74	40
7....	85	64	73	62	72	39	68	63	79	61	83	49	78	58	67	50	57	46	71	55	.....	.....	68	55	64	50	75	47
8....	66	45	75	61	82	44	70	68	68	44	65	49	70	40	74	54	56	44	64	56	.....	.....	61	52	55	45	78	52
9....	52	37	55	50	60	38	56	50	53	38	55	37	52	35	76	57	66	47	55	49	.....	.....	63	43	72	52	73	59
10....	45	35	48	38	61	34	52	38	45	35	46	34	44	35	61	51	53	44	41	38	.....	.....	43	36	61	50	64	55
11....	58	35	51	36	67	34	52	38	55	35	59	35	59	35	53	39	44	39	49	36	.....	.....	42	34	51	44	61	41
12....	59	32	59	37	70	36	52	38	56	34	59	33	60	29	58	39	42	36	45	37	.....	.....	39	36	51	42	51	41
13....	65	36	64	35	74	36	58	38	61	36	67	32	70	28	53	40	49	36	59	34	.....	.....	55	33	64	41	49	42
14....	75	37	73	38	78	36	66	38	72	44	76	34	79	35	69	38	68	29	69	36	.....	.....	63	41	64	41	61	43
15....	83	40	82	44	87	38	76	45	79	47	83	43	85	50	70	45	68	32	77	38	.....	.....	70	49	68	55	65	38
16....	88	46	87	52	97	44	80	50	86	58	89	50	89	46	76	40	77	30	77	50	.....	.....	76	50	72	43	73	38
17....	89	50	91	62	98	50	86	58	89	60	92	52	90	45	80	44	85	35	88	56	.....	.....	83	56	78	49	82	48
18....	94	54	90	64	90	52	86	64	87	59	91	55	91	48	87	49	90	53	86	60	.....	.....	86	63	84	54	88	46
19....	85	52	88	57	86	49	84	56	82	57	85	51	86	51	78	59	71	54	78	53	.....	.....	75	54	74	57	83	56
20....	83	56	85	57	87	45	79	60	81	57	84	52	81	50	72	53	68	46	78	54	.....	.....	72	53	66	48	.....	.....
21....	83	54	87	56	81	50	80	60	80	59	81	54	83	59	78	50	80	40	81	54	.....	.....	78	51	77	45	84	49
22....	76	56	82	62	76	58	78	60	73	63	74	56	76	61	80	58	83	50	81	54	.....	.....	80	60	78	61	81	59
23....	66	56	70	65	68	53	67	64	70	44	66	54	71	33	79	61	78	61	73	62	.....	.....	72	54	77	59	78	54
24....	62	40	62	47	64	38	58	46	60	40	68	37	60	36	72	61	74	60	59	45	.....	.....	55	45	70	63	76	62
25....	62	39	70	39	77	36	64	40	64	42	68	38	65	35	65	50	56	46	64	36	.....	.....	59	42	65	46	69	50
26....	76	38	71	42	90	40	64	44	69	40	74	37	74	36	67	39	63	34	66	39	.....	.....	59	42	64	41	63	39
27....	83	43	88	49	91	45	76	46	84	50	87	40	89	49	69	42	62	38	70	41	.....	.....	66	44	59	43	66	38
28....	82	44	83	53	89	44	70	52	85	50	91	45	88	46	69	40	68	34	71	42	.....	.....	66	40	65	40	65	35
29....	87	48	87	51	89	50	78	48	85	54	90	47	88	48	76	48	74	35	78	45	.....	.....	72	48	70	45	.....	.....
30....	86	56	88	60	87	52	80	56	84	55	89	54	87	55	81	48	81	39	85	53	.....	.....	80	55	75	53	79	43
Mns..	75.1	45.0	75.5	51.2	81.7	43.7	71.2	51.0	73.0	48.1	75.9	44.6	76.3	43.7	71.3	48.7	67.8	41.6	69.8	46.6	.....	.....	66.4	47.0	68.0	48.6	72.0[b]	48.0[b]

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 1913. District No. 7, Lower Mississippi Valley*—Continued.

Date.	Tennessee.				Arkansas.																		Mississippi.					
	Kenton.		Memphis.		Bentonville.		Dardanelle.§§		El Dorado.§§		Fort Smith.		Hardy.		Little Rock.		Pine Bluff.§§		Texarkana.§§		Wynne.§§		Clarksdale.§§		Corinth.§§		Greenville.§§	
	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	73	44	77	57	81	51	82	45	84	54	87	58	76	67	80	59	85	53	84	51	70	50	82	54	78	47	87	56
2	80	55	77	64	74	64	80	61	82	60	79	62	78	60	80	62	82	53	81	53	80	61	81	59	81	52	82	61
3	79	63	80	60	68	44	70	62	81	62	74	52	73	59	76	61	79	62	78	61	71	66	83	65	82	61	86	65
4	.....	.....	62	51	58	41	64	47	67	50	63	45	70	41	63	48	66	49	62	45	62	50	67	56	64	60	68	57
5	.....	37	60	46	68	37	74	37	70	42	69	41	65	36	64	46	67	46	72	42	67	41	66	46	62	42	68	49
6	72	.....	71	51	74	44	78	38	76	41	77	48	74	45	75	50	78	41	78	46	71	42	75	43	74	40	78	43
7	69	49	69	60	68	60	73	45	80	50	72	64	65	51	74	58	80	54	79	50	75	59	74	54	78	46	78	56
8	78	51	76	63	66	54	76	57	80	57	75	62	72	51	75	62	79	58	74	57	77	62	77	59	77	55	80	59
9	71	58	70	56	60	42	60	57	72	62	65	47	67	55	63	52	64	62	68	61	66	56	68	63	70	60	77	63
10	62	51	59	47	42	38	50	42	61	46	47	41	57	43	57	44	61	46	62	41	60	49	63	52	65	58	64	53
11	55	41	52	46	46	36	50	41	57	39	49	40	48	40	48	38	52	38	50	34	55	42	62	43	60	44	63	45
12	50	42	48	44	46	38	56	36	57	37	54	38	48	36	48	38	54	38	66	32	50	37	53	39	52	44	57	44
13	46	38	47	40	58	33	64	39	62	39	62	39	54	37	58	42	59	39	70	34	52	39	52	41	48	42	58	45
14	63	40	64	43	66	36	71	37	67	37	71	40	69	37	69	42	69	40	73	35	49	33	67	37	61	40	68	39
15	62	43	66	51	75	42	79	39	76	43	78	46	75	45	74	50	75	41	87	40	74	39	74	44	66	44	75	50
16	71	40	69	51	80	47	82	44	84	46	82	51	79	45	77	51	81	44	93	41	75	41	77	44	76	40	80	46
17	79	43	78	52	86	57	89	48	87	50	90	58	83	53	85	56	87	48	90	48	82	44	84	44	84	44	86	47
18	86	48	82	64	87	61	92	49	85	54	91	62	89	58	87	60	89	49	91	59	70	54	88	50	87	48	87	52
19	77	51	72	63	84	55	87	53	86	55	88	59	78	60	84	60	89	54	91	55	80	59	86	59	86	56	86	58
20	71	50	72	58	80	59	80	57	84	52	81	62	71	54	75	60	79	60	90	50	78	58	79	59	76	58	83	59
21	80	45	75	53	80	52	83	49	86	53	83	58	80	47	80	53	85	53	91	55	81	48	85	51	86	50	88	55
22	80	57	80	63	78	61	83	57	81	56	81	63	81	61	81	64	83	54	82	56	82	61	81	58	80	54	83	56
23	78	56	79	61	70	56	75	67	78	63	71	57	75	61	74	60	77	62	76	60	78	62	81	60	78	56	82	58
24	74	62	72	61	56	46	64	57	66	60	57	48	72	59	70	51	69	60	67	54	71	61	67	61	67	59	63	60
25	67	48	61	51	61	40	68	49	66	50	66	43	61	46	64	49	63	50	71	49	59	50	59	53	64	58	61	54
26	62	38	63	47	62	42	69	45	68	45	67	45	66	39	66	49	69	44	72	42	67	42	68	43	64	44	69	44
27	62	39	69	47	74	45	81	44	80	43	82	46	74	40	78	49	79	43	85	42	74	41	75	44	68	44	76	46
28	67	37	64	47	72	45	70	45	70	61	70	51	69	37	68	48	68	46	67	52	69	38	75	43	65	40	68	48
29	74	44	72	54	78	45	78	41	78	44	79	50	75	44	75	46	78	42	84	49	76	42	77	46	76	44	76	45
30	78	45	76	57	83	53	83	46	82	49	84	56	81	46	79	53	81	46	90	57	76	45	82	48	80	48	79	49
Mns.	70.2[b]	47.0[b]	68.7	53.6	69.4	47.5	73.7	47.8	75.1	50.0	73.1	51.1	70.8	48.4	71.6	52.0	74.2	49.2	77.5	48.4	70.2	49.4	73.6	50.6	71.8	49.3	75.2	52.1

Date.	Mississippi.						Louisiana.																			
	Kosciusko.§§		Natchez.§§		Vicksburg.		Alexandria.§§		Baton Rouge.§§		Covington.§§		Lafayette.§§		Lake Charles.§§		Monroe.§§		New Orleans.		Robeline.§§		Schriever.		Shreveport.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	83	53	83	45	83	60	80	57	83	57	80	55	82	58	80	36	86	56	76	61	85	54	83	56	82	59
2	82	56	80	52	78	61	82	58	83	63	84	57	81	59	82	55	83	62	80	62	82	60	83	59	79	62
3	84	62	84	57	83	61	84	62	84	64	85	63	82	66	71	57	84	66	82	68	82	62	84	62	78	60
4	71	60	78	45	69	56	75	62	75	68	75	64	77	67	73	38	73	60	76	64	72	59	81	67	67	52
5	65	46	65	59	69	52	74	49	74	52	78	54	74	54	75	35	71	48	72	59	76	41	72	55	72	48
6	75	40	78	32	76	49	76	47	76	49	78	43	77	48	79	37	79	43	72	53	79	42	80	47	77	51
7	81	47	87	40	78	53	80	53	79	51	75	46	77	54	81	39	80	55	77	56	82	51	82	46	79	57
8	80	55	80	57	80	59	78	55	82	60	82	50	80	61	85	46	80	60	80	63	80	52	84	55	78	62
9	80	60	63	54	79	60	81	58	82	66	80	62	80	65	80	55	79	66	80	62	77	62	84	63	69	51
10	66	58	62	52	65	53	66	52	71	57	71	60	79	55	75	50	66	50	70	60	67	57	70	61	60	45
11	64	41	68	36	62	47	62	44	70	49	73	53	66	49	77	30	64	41	67	57	61	37	69	53	53	42
12	58	40	59	35	61	45	65	40	69	46	70	45	66	42	79	32	66	41	65	49	66	34	66	45	62	39
13	52	43	62	29	54	43	64	40	68	44	65	40	65	41	85	30	62	42	61	49	63	33	67	41	62	40
14	65	36	60	30	64	46	72	41	72	43	70	39	71	41	83	34	70	40	66	49	71	35	71	39	69	43
15	73	41	76	42	73	51	79	41	79	47	78	41	77	43	82	37	78	45	74	53	69	35	77	41	78	48
16	76	40	68	44	79	53	84	43	84	52	84	45	83	51	84	38	84	46	79	56	87	39	83	52	84	53
17	83	41	85	49	83	57	85	47	87	58	86	46	85	55	85	52	87	50	81	61	89	43	84	55	85	58
18	85	45	78	52	82	61	84	55	86	55	88	50	84	60	84	54	86	54	85	62	84	50	89	55	82	60
19	86	51	89	52	85	64	86	53	88	57	90	52	85	54	87	57	87	54	84	66	88	43	88	57	85	58
20	81	55	88	53	80	60	88	53	79	60	92	54	88	57	88	53	86	54	86	67	89	43	89	56	86	60
21	83	53	82	56	84	60	84	61	74	58	83	57	84	59	85	54	85	55	79	64	90	54	86	55	85	59
22	80	51	81	55	79	56	82	59	80	55	78	55	81	61	81	56	82	56	74	64	82	53	82	58	79	63
23	80	56	72	60	78	59	79	61	81	60	80	58	79	65	79	59	80	63	78	65	78	60	82	61	77	57
24	62	57	72	60	69	58	62	58	78	64	82	65	74	66	71	64	62	60	79	63	64	57	86	64	63	54
25	62	58	78	59	59	53	65	54	63	58	72	62	60	58	66	49	62	52	70	54	70	51	71	62	68	51
26	68	43	71	44	67	46	72	45	77	49	75	49	73	46	78	41	72	46	72	54	73	40	80	48	71	50
27	72	41	77	41	72	52	80	46	80	53	79	45	77	46	80	42	81	45	76	56	82	40	86	46	83	50
28	67	44	84	54	66	51	80	55	79	57	80	49	80	52	85	53	71	51	74	61	82	52	83	62	74	57
29	76	44	81	43	73	52	80	51	82	52	84	46	79	54	85	54	79	46	76	58	84	49	83	50	80	54
30	82	49	80	46	78	56	84	52	84	57	85	49	82	56	85	54	82	51	80	62	86	48	85	57	83	58
Mns.	74.1	48.9	75.7	47.8	73.6	54.5	77.1	51.7	78.3	55.4	79.4	51.8	77.6	54.8	80.3	46.4	76.9	51.9	75.7	59.3	78.0	47.9	80.4	53.9	75.0	53.4

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
§§ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.