Climatological Data for October, 1909.

DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

During the first week of the month the weather was warm throughout the district; the highest temperatures occurred on the 1st or 2d in the western and from the 4th to 6th in the eastern portion of the district, except in some localities where they were recorded from the 14th to 16th. A change to decidedly cooler took place about the 6th in the western and the 8th in the eastern portion of the district, culminating in unseasonably low temperatures and killing frosts over the northern and western portions of the district. The cool weather continued until the close of the month, except that some of the day temperatures were rather high. The lowest temperatures occurred generally on the 12th or 13th and from the 24th to 26th. The mean temperature was about the normal, or above, except over the western and extreme eastern portions of the district, where there was a deficiency. Monthly mean temperatures and departures from the normal for the various States and areas are reported as follows: Missouri area, 58.6°, +0.7°; Kansas area, 58.2°, 0.0°; Colorado area, 50.2°, +1.0°; New Mexico area, 53.9°, −0.5°; Texas area, 62.1°, +1.4°; Oklahoma, 62.0°, +0.1°; Arkansas, 63.0°, +1.1°; Tennessee area, 60.0°, +0.2°; Mississippi area, 64.5°, +0.7°; and Louisiana, 68.5°, +1.6°.

The precipitation occurred in the Colorado area mostly during the first decade, while over the remainder of the district there were two well-defined rainy periods; the first prevailed generally from the 6th to the 11th, and the second from the 17th to the 20th. The last decade of the month was practically without rain, except that showers occurred generally over the northern portion of the district on the last day of the month. There was a deficiency over the eastern portion of the district and over that portion lying between the ninety-fifth and ninety-seventh meridians, while between the ninety-third and ninety-fifth, and ninety-seventh and ninety-ninth meridians there was a general excess. Over the remainder of the district, the departures were irregular, being about the normal in some localities and below in others. Monthly amounts with departures from the normal, for the various States and parts of States, are reported as follows: Missouri area, 1.95, −0.44; Kansas area, 2.01, −0.12; Colorado area, 0.94, −0.27; New Mexico area, 1.52, +0.56; Texas area, 1.89, −0.67; Oklahoma, 2.19, −0.20; Arkansas, 2.15, −0.21; Tennessee area, 1.26, −1.14; Mississippi area, 1.00, −1.06; Louisiana, 2.09, −0.54.

TEMPERATURE.

The mean temperature was below the normal over that portion of the Colorado area lying to the east of the Front Range, the New Mexico area, southwestern Oklahoma, the northeastern portion of the Missouri area, and the eastern portions of the Tennessee and Mississippi areas, and was about normal or above elsewhere. The greatest excess in temperature, amounting to more than 3°, occurred over southeastern Louisiana; elsewhere the excess ranged from 0.2° to 2.9°. Over those portions of the district where the mean temperature was below the normal, the departures ranged from 0.1° in Colorado and New Mexico to 2.5° over southwestern Oklahoma. The highest monthly mean temperature was 76.7°, at Burnside, Ascension Parish, La., and the lowest was 38.3°, at Lake Moraine, El Paso County, Colo. The monthly maximum reached, or exceeded, 90° at some stations in each State in the district, except in the New Mexico area, and the maximum was above 95° at a large number of stations in Oklahoma, Arkansas, Louisiana, and the Texas and Kansas areas. The highest temperature recorded in the district was 99°, at Hartshorn, Pittsburg County, Okla., on the 1st. A maximum temperature of 98° was recorded at Bee Branch, Van Buren County, and Portland, Ashley County, Ark., on the 5th. The average of the daily maximums exceeded 80° at 1 station in Oklahoma, 2 stations in the Mississippi area, and at practically all stations in Louisiana. The lowest temperature recorded was −5° at Elizabethtown, Colfax County, N. Mex. Minimum temperatures of 32°, or lower, were recorded in all parts of the district except over the greater portion of Louisiana and at scattered stations in Oklahoma, Arkansas, and the Texas and Mississippi areas. Zero temperatures were recorded in the mountainous portions of the Colorado and New Mexico areas, and in the more elevated portions of these areas the monthly mean minimum was well below 32°. Killing frosts occurred on the 12th or 13th, except in Louisiana, the eastern portion of the Texas area, and southeastern Arkansas, and on the 25th frost occurred southward into Mississippi and northern Louisiana.

PRECIPITATION BY DRAINAGE AREAS.

Arkansas River and tributaries.—The precipitation was unevenly distributed over this drainage area. The amounts were generally light, except in central Kansas, north-central Oklahoma, and northwestern Arkansas. Over the Colorado area, the average for 31 stations was 0.9 inch, which is about 0.3 inch below the normal. More than 2 inches occurred at only 1 station and there was less than 0.5 inch at 4 stations. There was an increase in the precipitation from the Colorado line to the ninety-seventh meridian and the average amount deduced from the 33 stations in this area was 3.3 inches, which is about 0.2 inch above the normal. Six stations reported more than 3 inches and 5 stations less than 1 inch. Over the Cimarron Basin, the precipitation ranged from 0.38 inch over the headwaters to 5.05 inches over north-central Oklahoma. The average amount determined from 20 stations was 2.3 inches, which is about 0.5 inch above the normal. More than 4 inches occurred at 3 stations and only 2 stations reported less than 1 inch. Over the headwaters of the Canadian, in New Mexico, the precipitation ranged generally between 1 and 2 inches. The average amount determined from 26 stations was 1.7 inches, which is about normal. Over that portion of the Canadian Basin, from the Colorado line to its junction with the Arkansas, the precipitation was generally more than 2 inches. The average determined from 16 stations was 2.2 inches, which is about normal. The precipitation over the Neosho and Verdigris valleys and the Arkansas proper, from the ninety-seventh meridian eastward to the Arkansas line, was less than to the west and east of this area. The amounts ranged generally between 1.5 and 3 inches. The average amount deduced from the reports of 22 stations was 2.1 inches, which is slightly below the normal. In the Arkansas Basin, from Fort Smith to its junction with the Mississippi, the average was 3.3 inches, which is nearly 1 inch above the normal. There was a decided excess above Little Rock, but below that station there was a marked deficiency. Excessive precipitation (2.50 inches, or more in twenty-four hours) occurred as follows: Miami, Tex., Canadian watershed, 2.50 inches on the 18th; Dacoma and Okeene, Okla., Cimarron watershed, 2.80 and 2.60 inches, respectively, on the 18th.

Red River and tributaries.—Over this drainage area the precipitation was light, except in northeastern Texas and southwestern Arkansas and at a few stations in southwestern Oklahoma. From the headwaters to the ninety-seventh meridian, the monthly amounts ranged generally between 1 and 2 inches, and the average deduced from 22 stations was 1.5 inches, which is about 0.7 inch below the normal. Three stations reported more than 2 inches and 2 stations reported less

than one inch. From the ninety-seventh meridian to the Louisiana line the amounts were greater and ranged generally between 2 and 4 inches. The average amount determined from 18 stations in this area was 2.5 inches, which is slightly above the normal. Four stations reported less than 2 inches and 2 stations more than 4 inches. Below the Louisiana line the precipitation ranged from 1.35 inches to 4.10 inches, and the average amount deduced from 9 stations was 2.0 inches, which is about 0.9 inch below the normal.

Mississippi south of St. Louis and small tributaries.—Except in widely scattered localities, the precipitation was light throughout this drainage area. In the immediate Mississippi Valley, from St. Louis southward to the coastal plain, the precipitation reported from 41 stations averaged 1.3 inches, and exceeded 2 inches at only 5 stations. The greatest monthly amount was 2.87 inches at Corinth, Miss. Twelve stations reported less than 1 inch and 3 stations less than 0.5 inch. The precipitation was below the normal, except at 2 stations, and the average deficiency was about 1 inch. In the valley of the Meramec, the precipitation ranged from 0.37 inch to 3.03 inches and the average was 2 inches, which is about 0.5 inch below the normal. Over the valley of the White, the precipitation was unevenly distributed. The monthly amounts ranged from 0.51 inch over the upper portions of the basin to 4.31 inches at Mossville in the western portion, and the average was 1.8 inches. The precipitation over this drainage basin was above the normal over the western portion and decidedly below the normal elsewhere; the average deficiency was about 0.5 inch. Over the valleys of the Yazoo and Big Black the precipitation ranged from a trace to 1.89 inches. The average determined from the reports of 11 stations in the Yazoo Basin was 1 inch, which is about half the normal amount; 4 stations reported less than 0.5 inch. Out of 7 stations in the valley of the Big Black only 2 stations reported more than 1 inch and 3 stations reported less than half an inch; the average was 0.8 inch, which is 1.5 inches below the normal. In the valley of the Ouachita, the precipitation was more uniformly distributed than elsewhere in the lower Mississippi Valley. The monthly amounts ranged from 0.90 inch to 3.56 inches, and the average for 18 stations was 2.1 inches, which is 0.3 inch below the normal There was a general deficiency over this drainage area, except in southwestern Arkansas, where there was an excess ranging from 0.56 inch to 1.22 inches.

Louisiana coastal plain.—The precipitation over this area ranged from 0.10 inch at Burrwood, Plaquemines Parish, to 3.70 inches at Audubon Park, New Orleans, Orleans Parish. The precipitation was below the normal over the entire coastal plain, except in Orleans Parish and the northern portion of Tangipahoa Parish. The deficiency averaged about 1 inch. The rainfall was excessive at 1 station, Audubon Park, where 3.41 inches fell on the 19th.

RIVERS.

The Arkansas and its tributaries were low throughout the month, except that there were freshets in some of the small streams in north-central Oklahoma and southern Kansas. At Little Rock, the highest stage was 1.1 feet at the opening of the month and the lowest was 0.3 foot from the 25th to 28th, inclusive. A slight rise was recorded at Little Rock at the close of the month. No material changes in the stages of the Red River were recorded. The stages at Arthur City ranged from 4.5 feet to 5.4 feet. At Fulton, Arkansas, from 4.8 feet to 5.4 feet; at Shreveport, La., from −4.4 feet to −3.5 feet; and at Alexandria, La., from −0.5 foot to 1.1 feet. A rise of 3.2 feet was recorded on the Ouachita at Camden on the 12th and 13th, otherwise changes in this stream were slight. The lower Mississippi changed very little. At Memphis there was a rise of 2.1 feet from the 18th to the 26th, but the stage at the close of the month, 6.7 feet, was 1.4 feet below that on the 1st. The above rise reached Helena on the 22d, Vicksburg on the 26th, Natchez on the 27th, and New Orleans on the 29th. The stages were lower at the close of the month than they were on the 1st, except at New Orleans.

NOTES.

There are several thousand acres of swamp land in southern Louisiana susceptible of reclamation. The increasing interest in the sugar and rice industries will make it necessary, in the near future, to prepare these lands for cultivation. Mr. A. M. Shaw, Expert in drainage investigations, U. S. Department of Agriculture, in a recent communication to this office, makes the following comments in this connection:

> In all of the lands that are in need of drainage, a definite knowledge of the amount of water to be drained off during each month is important, but in the lands along the coast, where only artificial drainage is possible, a definite knowledge of the precipitation is an absolute necessity for the proper design of the drainage works. In connection with Prof. W. B. Gregory, of Tulane University, I have been making an especially detailed study of conditions on a few typical tracts, and in this work have established rain gages on each tract; in some cases, two gages have been placed on each plantation. It is not expected, however, that these separate gages will be maintained indefinitely, but as soon as the studies now under way have been kept up for a sufficient length of time to make deductions from them possible, the information obtained will be applied to other localities where the Department will have to depend entirely on the rainfall records which may be obtained from the Weather Bureau or other sources. As soon as the results of the investigations now being made are available for the use of the engineers of this territory, it is very probable that a much wider demand for data from your office will result. One reason that engineers (outside of those in the rice country) have made little use of the records of the Bureau heretofore is because of the difficulty of application of the data from the Bureau. With the additional information which it is hoped we will be able to develop, the records kept by the Weather Bureau will play an important part in the reclamation of the swamp lands of the State.
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> In this connection, it is interestinfg to note the wide variation in rainfall at points only 1 or 2 miles apart. In some cases there is a marked difference, not only in the daily but in the monthly precipitation.

Reports giving the daily discharges of the Arkansas River at Canon City, Colo., for July, August, September, and October have been furnished by the Water Resources Branch of the United States Geological Survey. These reports show a gradual decrease in the discharges from July 1 to August 14. The greatest discharge recorded during the four months occurred on August 18 and resulted from cloudbursts near the Royal Gorge. The heavy precipitation during the early part of September is shown in the increased discharge during the first decade of that month. The discharge diminished generally from September 10 to October 31. The area drained is 3,060 square miles and the run-off in acre-feet for July was 124,000; August, 73,800; September, 82,700; and October, 41,300.

TABLE 1.—*Climatological data for October, 1909. District No. 7, Lower Mississippi Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				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 rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Colorado.																				
Blaine	Baca	3,935	17	54.2	− 0.8	87	4	27	26	45	0.29	− 0.49	0.15	0.0	3	17	11	3	sw.	M. M. Meyers.
Buena Vista	Chaffee	7,955	9																	M. D. Bowen.
Calhan	El Paso	6,700	2	47.5		77	2†	20	25	48	1.27		0.67	1.0	3	20	9	2	sw.	H. B. Rice.
Canon City	Fremont	5,329	21	56.1		82	2	27	19	42	0.99	+ 0.19	0.58	0.0	5	15	15	1	e.	Thomas J. Tynan.
Colorado Springs	El Paso	6,098	30	50.0	+ 1.7	76	2	24	25	44	0.57	− 0.11	0.41	0.0	4	21	6	4		Colorado College.
Cripple Creek	Teller	9,396	9								0.98		0.45	11.5	4					F. G. Willis.
Cuchara Camps	Huerfano	8,200									1.55		0.72	7.0	6	21	7	3	sw.	George A. Mayes.
Eads	Kiowa	4,209	2	53.3		87	3	23	30	56	1.35		1.35	T.	1					W. H. Lauck.
Fairview	Custer	9,500									1.25		0.34	23.8	5	21	5	5	e.	Elizabeth L. Gray.
Florence	Fremont	5,185		55.2		86	1†	25	9	45	0.55		0.40	0.0	2	24	0	7	e.	W. G. Fish.
Garfield	Chaffee	9,510									1.10		0.31	6.0	6	22	7	2		Lloyd N. Felton.
Glen Eyrie	El Paso	6,500	17	48.6	+ 0.4	81	2	17	9	51	0.51	− 0.41	0.42	T.	3	22	8	1	w.	C. Nickell.
Hamps	Elbert	5,400	16	46.4	− 0.7	78	2†	18	25	50	0.85	+ 0.26	0.47	0.5	3	18	8	5	s.	W. Hamp.
Hermit Lake	Custer	10,000																		Jno. E. Graham.
Hoehne (near)	Las Animas	5,700	17	54.0	+ 2.4	87	4	23	9	53	0.25	− 0.79	0.25	T.	1	20	9	2	sw.	S. W. DeBusk.
Holly	Prowers	3,380	14	55.4		95	2	26	27	57	0.76	+ 0.17	0.40	T.	3	22	6	3	se.	R. I. Arneson.
Lake Moraine	El Paso	10,265	15	38.3	+ 1.1	61	2	7	9	31	0.82	− 1.00	0.36	7.8	7	7	21	3	sw.	Joseph Strong.
Lamar	Prowers	3,592	19	54.4	− 0.8	90	2	27	28	55	0.53	− 0.50	0.43	0.0	2	20	10	1	se.	J. T. Lawless.
Las Animas	Bent	3,899	41	54.8	+ 1.8	90	2	27	24	55	1.46	+ 0.75	0.78	0.0	2	22	2	7	e.	F. M. Tague.
La Veta Pass	Costilla	9,000									1.59		0.63	13.2	4	18	5	8	w.	Norvin B. Lively.
Leadville	Lake	10,248	13	38.8	+ 1.8	65	2	12	8	35	0.81	− 0.08	0.34		6				n.	U. S. Weather Bureau.
Limon (near)	Elbert	5,360	2	49.6		81	2	25	9†	41	1.20		0.84	T.	3	28	1	2	ne.	John Lesher.
Marshall Pass	Saguache	10,846	6								1.29		0.60	17.0	5	23	5	3	w.	W. D. Lillard.
North Lake	Las Animas	8,700									1.06		0.38	8.5	6	20	6	5	w.	Guy H. Crane.
Pueblo	Pueblo	4,734	21	52.2	− 0.1	82	2	26	19	48	0.25	− 0.46	0.16	T.	3	18	8	5	nw.	U. S. Weather Bureau.
Rockyford (near)	Otero	4,177	20	53.4	+ 0.6	89	3	24	23	60	0.90	0.00	0.83	0.0	2	29	1	1	w.	P. K. Blinn.
St. Elmo	Chaffee	9,500									1.47		0.55	T.	6	25	5	1	w.	Daniel Clark.
Salida	do	7,035	11	48.1	+ 1.1	80	2	14	12	52	0.56	− 0.60	0.28	T.	3	26	2	3	w.	M. D. L. Buell.
Santa Clara	Huerfano	8,250	14	48.0	+ 3.6	73	2	12	9	48	1.10	− 1.17	0.67	5.0	4	13	17	1		Lincoln Morris.
Sheridan Lake	Kiowa	4,065	8	55.1		86	4	22	25	53	0.55		0.45	0.0	2	28	0	3	sw.	Howard Gamble.
Stonewall	Las Animas	8,000	3								0.68		0.34	3.0	5	21	6	4		J. W. Shouse.
Trinidad	do	5,994	14								0.22	− 0.97	0.12	T.	2	17	12	2		Mrs. Maggie Butler.
Victor (near)	Teller	10,100	5	45.6		68	2	14	9	33	1.02		0.65	5.2	3	25	5	1	n.	Fred Jones.
Vilas	Baca	3,935	19								1.29	+ 0.55	0.56	0.0	4	20	7	4	sw.	Carrie Konkel.
Westcliffe	Custer	7,864	15	45.6	+ 2.0	75	1†	− 4	9	52	1.10	− 0.16	0.40	6.0	4	15	12	4	sw.	Zack Jordan.
Winfield	Chaffee	9,765									0.52		0.28	3.5	4	12	15	4	w.	John G. Payne.
Wortman	Lake	11,250	9								2.11		0.90	34.1	6	23	3	5	nw.	George C. Wortman.
New Mexico.																				
Abbott	Mora	5,771									1.12		0.43	T.	4	26	3	2	w.	Agt. E. P. & S. W. Ry.
Albert	Union	4,700	19	57.8	− 0.1	86	14	35	9	44	2.16	+ 0.27	1.50	0.0	4	22	2	7	s.	Andrew Knell.
Arch (near)	Roosevelt			59.8[g]		85[g]	14	30[g]	27†	39[g]									w.	Wm. A. Elliott.
Aurora	Colfax	8,849									2.11		1.85	16.8	4	12	15	4	nw.	Miss Juanita Lucero.
Bell Ranch	San Miguel	4,500	5	57.3		89	1	31	24	52	1.93		1.20	0.0	4	22	8	1	s.	C. M. O'Donel.
Black Lake	Colfax	8,348									1.19		0.80	0.8	5	21	6	4	w.	Ralph T. Martines.
Cabeza	San Miguel	5,406									2.02		1.45	0.0	4	17	8	6	se.	Agt. E. P. & S. W. Ry.
Campana	do	4,493									3.09		2.01	0.0	5	22	2	7	w.	Do.
Chacon	Mora	9,000									1.13		0.80	8.0	3	17	10	4	w.	Alfred Lucero.
Cimarron (near)	Colfax	6,385	4	50.7		80	16	23	9†	52	0.49		0.27	1.0	4	14	12	5	e.	Wm. French.
Clayton	Union	5,178	5	55.0		80	1	29	9	44	1.11		0.57	T.	3	20	6	5	nw.	Dr. W. W. Chilton.
Cuervo	Guadalupe	4,849		59.4		85	1	34	9	37	0.86		0.71	0.0	5	22	5	4	s.	Agt. E. P. & S. W. Ry.
Dawson	Colfax	6,396									1.00		0.50	0.0	2	20	3	8		Do.
Dorsey (near)	do	6,000	8																	Geo T. Lambert.
Elizabethtown	do	8,465	3	41.1		71	1	− 5	9	52	1.33		0.43	9.0	5	21	8	2	w.	Miss Mabel Carrington.
Fort Union	Mora	6,835	40	48.0	− 2.5	80	1	13	9	50	1.45	+ 0.40	0.90	4.0	5	23	5	3	w.	M. C. Needham.
Hayden	Union	4,444		53.2		78	1	30	21†	22	1.51		1.12	0.0	3	12	11	8	sw.	George L. Cook.
Lake Alice	Colfax	7,160									1.07		0.42	4.0	4					Raton Water Co.
Logan	Quay	3,851	3	58.0[a]		89[a]	16	29[a]	27	50[a]	2.85		1.50	0.0	5	24	3	4	s.	John B. Reneau.
Los Alamos	San Miguel	6,789	5								1.04		0.56	T.	5					Wm. Frank, sr.
Maxwell (near)	Colfax	5,894	3								0.68		0.48	0.0	2					D. N. Jackson.
Melrose	Curry	4,400	1	57.1		88	16	26	12	49	T.		T.	0.0	0	26	2	3	sw.	Miss Lois E. Porter.
Miami Ranch	Colfax	6,000	2	50.6		80	1†	20	9	51	0.96		0.59	1.0	4	22	5	4	sw.	Farmers' Devel. Co.
Montoya	Quay	4,335									1.00		0.80	0.0	3	24	0	7	w.	Agt. E. P. & S. W. Ry.
Nara Visa	do	4,225	4	57.6		85	16	33	12	41	2.86		1.48	0.0	5	21	5	5	s.	Willard Belknap.
Raton	Colfax	6,660	12	52.3	+ 1.1	80	2	26	9	44	1.14	+ 0.44	0.45	1.0	9	22	5	4	s.	Prof. R. C. Crum.
Rociado	San Miguel	8,200	6	46.2		75	1†	6	9	50	1.39		0.45	8.0	9	15	12	4	s.	Chas. F. Rudolph.
Roy	Mora	5,884									1.89		1.17	0.0	3	21	0	10	n.	Agt. E. P. & S. W. Ry.
San Jon	Quay	4,200	3	59.4		88	16	31	12	37	2.06		1.21	0.0	6	20	5	6	sw.	Jesse T. White.
Salano (1)	Mora	5,622		52.2		82	1	30	9†	47	2.36		1.37	T.	5	23	4	4	sw.	F. M. Hughes.
Salano (2)	do	5,622									2.17		1.29	T.	4	16	9	6	s.	Agt. E. P. & S. W. Ry.
Springer	Colfax	5,857	14	50.0[a]		82[a]	1	20[a]	29	55[a]	1.00		0.50	0.0	4	24	4	3	n.	Agt. A. T. & S. F. Ry.
Taylor	do	5,661									2.53		1.80	T.	3	25	1	5	nw.	Agt. E. P. & S. W. Ry.
Trementina	San Miguel		2								1.58		1.00	0.0	4	15	12	4	sw.	Miss Alice Blake.
Tucumcari (1)	Quay	4,194	5	60.4		88	1†	34	27	47	1.90		1.39	0.0	4	25	5	1	sw.	John F. Seaman.
Tucumcari (2)	do	4,194									1.69		1.10	0.0	4	24	4	3	sw.	Agt. E. P. & S. W. Ry.
Vermejo Park	Colfax	7,600	6	46.8		74	1	14	9	48	1.07		0.52	T.	3	21	3	7	w.	H. W. Adams.
Wagon Mound (near)	Mora	6,300	1	54.8		78	14	22	28	50	1.69		0.68	2.5	7	19	7	5	sw.	Guy L. Barnes.
Texas.																				
Amarillo	Potter	3,676	17	57.9	+ 1.8	88	16	29	12	44	1.18	− 0.53	1.13	0.0	4	20	7	4	s.	U. S. Weather Bureau.
Arthur	Lamar	590	17								2.16	− 0.98	1.36	0.0	2	19	3	9	s.	J. B. Hodnett.
Bonham	Fannin	566	6	69.7[d]		94[d]	2	36[d]	24	50[d]	2.55		1.17	0.0	4	20[e]	5[e]	3[e]	se.	B. S. Lovelace.
Canadian	Hemphill	2,339	2																	C. M. Vance.
Channing	Hartley		4																	C. F. Land Inv. Co.
Childress	Childress	1,869	16	64.7	+ 2.0	88	2†	39	9	37	0.20	− 1.72	0.20	0.0	1	13	3	3	n.	W. E. Davis.
Chillicothe	Hardeman	1,406	1								1.84		0.97	0.0	3					A. B. Conner.
Clarkesville	Red River	442	4	59.8		90	13†	29	12	51	1.22		1.22	0.0	1	23	5	3	se.	J. B. McClelland.
Clarendon	Donley	2,719	4																	J. W. O'Neill.
Claude	Armstrong	3,397	4								0.97		0.97	0.0	1					Agt. F. W. & D. C. Ry.
Dalhart	Dallam	3,998	4	53.6		85	1†	29	27	48	2.60		1.02	0.0	4	23	4	4	s.	F. L. Kennard.
Denison	Grayson		1								2.44		1.38	0.0	3	20	3	8	se.	Wm. S. Faires.
Henrietta	Clay	915	14	64.4	− 0.9	95	14	35	26	48	1.11	− 1.16	1.11	0.0	2	27	0	4	s.	C. K. Brown.
Hereford	Deaf Smith	3,750	4																	A. C. Elliott.
Higgins	Lipscomb	2,760	1																	L. D. Shaw.
McLean	Gray		2																	W. R. Patterson.
Memphis	Hall	2,067	4	61.8		96	13	32	12†	62	1.06		1.06	0.0	1	24	4	3		Agt. Ft. W. & D. C. Ry.
Miami	Roberts	2,743	3	60.2		89	16	34	27	44	2.50		2.50	0.0	1	24	5	2	s.	Jerome Harris.
Mobeetie	Wheeler																			R. A. Choate.
Nazareth	Castro		3	57.8		88	16	22	12	50	1.00		0.92	0.0	3	23	4	4	se.	P. A. Kalein.

TABLE 1.—*Climatological data for October, 1909. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Texas—Cont'd.																				
Ochiltree	Ochiltree		1																	S. T. Allen.
Pampa	Gray	3,226		59.6		87	13	30	11	41	2.35		1.85	0.0	2					B. E. Finley.
Paris[b]	Lamar	592	20	68.2	+ 2.6	95	1†	39	10	43	1.74	− 0.65	1.07	0.0	3	21	0	8	s.	N. O. Enloe.
Plemons	Hutchinson		2	57.4		89	2	26	27	50	2.28		1.80	0.0	3	21	5	5	n.	C. S. Solomon.
Quanah	Hardeman	1,563	4	64.0		95	18	36	12	53	1.13		0.90	0.0	2	22	2	7	s.	E. E. Miller.
Sherman	Grayson	745	16	67.4	+ 1.0	89	5	42	24	38	2.01	− 1.23	1.52	0.0	3	24	1	6	s.	R. A. Gibbs.
Sulphur Springs	Hopkins	530	17	68.3	+ 1.5	93	1†	43	10†	39	5.09	+ 1.68	4.00	0.0	3	18	10	3		W. B. Baxter.
Texline	Dallam	4,694	4								1.30		1.30	T.	1					Agt. Ft. W. & D. C. Ry
Tulia	Swisher	3,501	11	58.4		90	13†	23	12	55	1.65		1.52	0.0	3	15	14	2	s.	Lou Mulhall.
Wichita Falls	Wichita	958	4								1.50		1.50	0.0	1	26	0	5	s.	J. B. Nicholson.
Kansas.																				
Anthony	Harper	1,329	12	59.1		93	4	25	12	45	3.64	+ 1.37	1.29	0.0	7	17	8	6	sw.	R. H. Beebe.
Ashland	Clark	1,951	2	58.4		90	1†	31	13	49	2.92		1.00	0.0	10	20	4	7	n.	C. W. Carson.
Burlington	Coffey	1,010	16	58.2	− 1.1	94	1	25	12	46	2.28	− 0.14	1.03	0.0	5	17	7	7	s	A. W. Maxwell.
Chanute	Neosho	940	5	60.8		94	1	25	12	45	1.51		0.90	0.0	3	15	12	4	s.	Chase W. Brown.
Cimarron	Gray	2,700	3	55.8[b]		90[b]	2	27[b]	12†	49[b]	0.88		0.35	T.	5	17	6	6	se.	Fred Mallonee.
Coldwater	Comanche	2,090	11	58.8		88	1†	27	12	40	1.32	− 0.43	0.51	T.	6	21	3	7	s.	J. L. Stanley.
Columbus	Cherokee	898	19	59.6	+ 0.7	90	2†	24	12	38	3.05	+ 0.02	1.55	0.0	5	21	1	9	sw.	O. E. Skinner.
Coolidge	Hamilton	3,346	13	54.2	+ 1.0	90	2	25	24†	61	1.11	+ 0.12	0.69	0.0	3	18	8	5	se.	W. R. Padley.
Cottonwood Falls	Chase	1,234	5	57.9		92	1†	21	12	51	1.35		0.50	0.0	7	17	6	8	sw.	E. B. Greene.
Council Grove	Morris	1,191		59.6[g]		90	1†	26[m]	27	45[m]	1.02		1.02	0.0	1	29	0	2	n.	Geo. W. Cleek, jr.
Cunningham	Kingman	1,680	21	58.2	+ 0.4	90[a]	1†	26	12	45[a]	2.75	+ 0.64	1.25	0.0	4	19	3	9	s.	W. H. Morton.
Dodge City	Ford	2,513	35	56.2	+ 1.5	88	2	26	12	39	0.92	− 0.48	0.32	T.	8	19	5	7	s.	U. S. Weather Bureau
El Dorado	Butler	1,291	7	58.9		90	5	24	12	40	2.36		0.88	0.0	5	21	3	7	s.	W. Y. Miller.
Ellinwood	Barton	1,788	15	57.5	− 0.2	90	3	23	12	42	2.40	+ 0.44	1.47	T.	8	13	11	7	nw.	Martin Musil.
Emporia	Lyon	1,138	25	58.4	+ 1.0	93	1	25	12	45	1.88	− 0.91	1.04	0.0	4	16	9	6	s.	W. H. Boyles.
Eureka	Greenwood	1,093	11	58.2		92	1†	24	12	48	2.00	− 1.05	0.80	0.0	5	19	7	5	s.	T. C. Peffer.
Fall River	...do	925	13	59.2		94	1	25	12	49	1.54	− 0.58	0.70	0.0	6	20	7	4	s.	J. McDaniel.
Fargo	Seward										0.89		0.50	T.	5	16	6	9	s.	Frank Swink.
Fredonia	Wilson	864	6	62.0		93	1†	22	12	51	1.95		0.77	0.0	6	21	2	8	s.	B. W. Holmes.
Garden City	Finney	2,836	15	56.0	+ 0.4	90	2	26	11	51	0.75	− 0.32	0.30	T.	4	20	4	7	s.	B. F. Stocks.
Great Bend	Barton	1,850																		J. A. Pritchard.
Greensburg	Kiowa	2,235	2	56.7		88	1†	25	12	42	3.37		2.48	T.	7	20	5	6	s.	C. C. Raymond.
Grenola	Elk	1,116	22	58.2	− 1.1	92	1†	22	12	45	2.17	− 0.56	0.72	0.0	6	21	4	6	s.	R. M. Lawyer.
Howard	...do	1,112	2								2.96		1.00	0.0	4	22	3	6	sw.	J. W. Eby.
Hugoton	Stevens		5	56.6		89	2	23	29	59	2.27		1.55	0.0	3	21	0	10	s.	J. A. Firmin.
Hutchinson	Reno	1,535	19	58.0	− 0.8	92	1†	24	12	45	2.85	+ 0.26	1.45	0.0	5	22	2	7	nw.	E. S. Webster.
Independence	Montgomery	816	37	61.0	+ 0.8	92	4	25	12	41	2.02	− 0.90	0.62	0.0	6	17	7	7	s.	J. M. Altaffer.
Iola	Allen	984	3	58.1		91	1	26	12	39	1.90		0.75	0.0	7	17	4	10	s.	U. S. Weather Bureau.
Jetmore	Hodgeman	2,268	8	55.8		90	2	20	12	47	0.81		0.40	T.	4	15	12	4	sw.	James Aikin.
Kingman	Kingman	1,504	1	59.5		92	4	25	12	45	2.72		0.97	0.0	6	21	4	6	sw.	B. B. Anawalt.
La Crosse	Rush	2,061	7	55.4[a]		90[a]	2†	20[a]	12	45[a]	1.54		0.94	T.	4	24	2	5	se.	Rodney Torrey.
Lakin	Kearney	2,993	19	54.0	− 2.0	88	1†	26	12	52	0.86	− 0.07	0.60	0.0	4	14	10	7	se.	C. H. Longstreth.
Larned	Pawnee	2,090	5	56.6		90	2†	25	12	40	1.86		0.94	T.	7	21	3	7	s.	H. H. Wolcott.
Lebo	Coffey	1,138	23	57.8[a]	+ 0.5	90[a]	2†	26[a]	12	41[a]	1.50	− 1.22	0.66	0.0	6	20	5	6	s.	J. J. Bowman.
Le Roy	...do	990									1.34		0.73	0.0	5	24	4	3	s.	F. W. Schmitt.
Liberal	Seward	2,843	2	57.2		89	2	29	27	48	1.38		0.73	0.0	6	20	0	11	se.	R. T. Nichols.
Macksville	Stafford	2,032	16	56.7	+ 0.4	88	1†	25	12	39	2.26	+ 0.07	1.25	T.	5	19	3	9	s.	Mrs. Nelia Poling.
McPherson	McPherson	1,495	19	59.2	+ 1.2	93	3	23	12	40	2.17	− 0.55	1.22	0.0	4	22	4	5	sw.	Ed. F. Haberlein.
Madison	Greenwood	1,074	8	58.0[d]		94[d]	1	23[d]	12	53[d]	1.33		0.87	0.0	3	12	11	4	se.	C. A. David.
Marion	Marion	1,310	15	58.4	− 0.5	92	1†	24	12	44	1.32	− 0.96	0.73	0.0	4	18	9	4		D. D. McIntosh.
Medicine Lodge	Barber	1,475	16	57.6	− 1.8	92	1†	26	12	51	2.62	+ 0.93	1.13	0.0	8	22	3	6	s.	S. P. Garrison.
Medora	Reno	1,480																		M. L. Rickenbrode.
Mt. Hope	Sedgwick	1,410	12								1.70	− 0.50	0.85	0.0	4	19	6	6	s	H. N. Renfrew.
Neosho Rapids	Lyon	1,092	4								1.27		0.70	0.0	3	22	0	9	s.	J. E. McLeod.
Ness City	Ness	2,260	12																	J. K. Barnd.
Newton	Harvey	1,454	12	60.2	+ 0.9	94	4	23	12	41	1.98	− 0.99	0.70	0.0	5	21	5	5	s.	C. F. Walden.
Norwich	Kingman	1,496	13	60.5	+ 0.5	91	1†	27	12	36	3.87	+ 0.52	1.09	0.0	6	16	9	6	s.	N. I. Farris.
Oswego	Labette	899	18	61.7	+ 1.4	93	1†	25	12	46	2.20	− 0.84	0.64	0.0	4	16	8	7	se.	Jas. M. Currigan.
Pratt	Pratt	1,950	14	57.1[b]	− 1.5	90[b]	5	26[b]	12	45[b]	1.98	− 0.48	1.10	0.0	6	21	2	8		E. H. Ellsworth.
Rome	Sumner	1,218	12	59.1	− 0.1	91	1	25	12	49	3.46	+ 1.01	1.27	0.0	8	19	5	7	s.	D. M. Adams.
Sedan	Chautauqua	834	24	61.6	+ 1.8	92	2	20	12	45	1.64	− 0.94	0.62	0.0	6	22	4	5	s.	A. Y. Buckles.
Toronto	Woodson	1,040	12	58.5	− 0.5	95	1†	24	12	50	2.15	− 0.21	1.05	0.0	5	22	0	9	s.	M. A. Webb.
Ulysses	Grant	3,027	15	56.4[f]	− 0.8	91[e]	2	29[e]	10	54[b]	1.13	+ 0.30	0.86	0.0	3	19	6	6	sw.	T. W. Marshall.
Walnut	Crawford	940	7	60.0		96	4	25	12	46	2.88		0.87	0.0	5	21	4	6	sw.	R. C. Harlan.
Wichita	Sedgwick	1,377	22	59.0	+ 0.2	89	5	28	12	32	2.95	+ 0.65	1.12	0.0	7	14	10	7	s.	U. S. Weather Bureau.
Winfield	Cowley	1,124	12	58.5	− 0.9	87	1†	25	12	37	2.64	+ 0.25	1.20	0.0	4	21	3	7	s.	M. B. Light.
Yates Center	Woodson	1,068	16	59.6	+ 1.2	93	1	22	12	50	2.97	+ 0.08	1.32	0.0	5	16	12	3	s	J. W. Tipton.
Oklahoma.																				
Ada	Pontotoc	1,001	3																	Dr. J. P. McKinley.
Apache	Caddo		1	63.2		93	4	37	12	45	2.29		1.33	0.0	3	25	1	5	s.	G. D. Teeter.
Arapaho	Custer	1,575	16	62.6	+ 1.3	91	3†	35	12	40	2.79	+ 0.55	1.61	0.0	3	24	4	3	s.	Geo E. Marsh.
Ardmore	Carter	872	8	65.8		95	1†	36	24	43	2.93		1.25	0.0	5	20	4	7	s.	H. T. Nisbett.
Bartlesville	Washington		3	62.0		94	1†	28	12	44	2.81		1.10	0.0	4	21	6	4	sw.	Dr. A. P. Owens.
Beaver	Beaver	2,500	13	58.7	+ 0.8	91	1	29	27	48	0.76	− 0.74	0.71	0.0	2	22	3	6	nw.	W. C. Frazer.
Blackburn	Pawnee	800	5	62.8		96	1	25	12	54	0.73		0.40	0.0	2	24	0	7	s.	J. Landis.
Buffalo	Harper		3																	L. M. Brink.
Cache	Comanche	1,350	4	59.7		88	4†	31	25	51	1.52		0.72	0.0	4	25	2	4	s.	U. S. Forest Service.
Calvin	Hughes	713	5								1.34		0.72	0.0	3	23	1	7	s.	Thomas Purcell.
Chandler	Lincoln	865	6	59.3		93	1†	28	24	48	1.60		1.28	0.0	3	23	2	6		Chas. L. Tuttle.
Chattanooga	Comanche	1,150	4	67.1		93	16	35	26	46	1.30		0.98	0.0	2	23	3	5	s.	Squire Humble.
Chickasha	Grady	1,091	9	64.9		96	4	35	24	47	1.28		0.57	0.0	3	30	1	0	s.	J. C. Good.
Cloud Chief	Washita	1,400	9	64.1		93	1†	35	12	47	1.94		1.08	0.0	3	23	5	3	s.	J. P. Stutsman.
Dacoma	Woods	1,337	12	59.2	− 1.8	90	1†	33	10	46	5.05	+ 2.69	2.80	0.0	3	23	1	7	sw.	N. A. Andress.
Durant	Bryan	643	9	64.2		94	3†	37	24†	51	1.69		1.06	0.0	4	22	3	6	s.	Nelson Houk.
Eldorado[a]	Jackson	1,456	3	67.6		92	2	44	9†	35	1.70		0.88	0.0	3	14	13	3	n.	R. D. Barnes.
Enid	Garfield	1,269	10	60.0		95	1†	35	10†	48	4.54		1.90	0.0	5	22	0	9	s.	Url B. Worcester.
Erick	Beckham	2,058	6	62.0[e]		91[e]	3†	35[e]	10†	49[e]	1.43		0.95	0.0	2	20	7	4	s.	Dr. J. D. Warford.
Fairland	Ottawa	839	10	62.6	+ 0.7	95	1†	24	12	45	2.08	− 0.97	0.97	0.0	5	18	5	8	s.	C. W. Prier.
Fort Gibson	Muskogee	556	5								0.92		0.60	0.0	2	23	2	6	e.	John T. Welsh.
Frederick	Gillman	1,293	6	64.4		95	3	36	12	49	1.55		0.80	0.0	3	24	2	5	s.	B. B. Bradley.
Gage	Ellis	2,136	7	58.3		89	3†	30	26	49	2.05		2.05	0.0	1	21	7	3	s.	C. H. Holmes.
Guthrie	Logan	1,000	7	62.6	− 0.4	95	7	35	24	48	2.35	− 0.07	1.72	0.0	3	19	10	2	s.	G. W. Derrick.
Guymon	Texas		1																	A. L. Mordt.
Harrington	Roger Mills		8	60.8		94	2	35	13†	50	1.55		1.30	0.0	3	18	8	5	s.	J. G. Harrington.
Hartshorne	Pittsburg	700	11	66.0	+ 1.4	99	1	30	24†	52	2.86	− 1.37	2.00	0.0	3	19	8	4	s.	Edward Glendenning.
Healdton	Carter	900	16	63.2	− 0.5	95	14	29	24	54	1.52	− 1.10	0.68	0.0	3	25	5	1	s.	A. C. Heald.

TABLE 1.—*Climatological data for October, 1909. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Oklahoma—Cont'd.																				
Hennessey	Kingfisher	1,166	15	62.0	− 1.3	95	1	33	12	45	3.92	+ 1.58	1.50	0.0	3	16	11	4	s.	W. W. Parks.
Hobart	Kiowa	1,396	6	62.4	.....	88	4†	38	10†	40	1.71	.....	0.85	0.0	3	24	4	3	s.	Roy Benedict.
Holdenville	Hughes	900	9	63.0	.....	94	5	33	24	46	0.91	.....	0.46	0.0	2	29	0	2	s.	Miss M. Rutherford.
Hooker	Texas	2,999	4	54.8	.....	84	3	31	27	45	1.57	.....	0.90	0.0	5	17	2	12	n.	J. N. Kelly.
Hurley	Cimarron	.....	1	54.1	.....	90	30	28	25	52	2.00	.....	0.80	T.	4	21	5	5	sw.	C. W. Myers.
Idabel	McCurtain	474	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. B. McCaskill.
Jefferson	Grant	1,062	16	59.9	+ 0.5	90	1†	30	12	44	4.43	+ 2.02	1.55	0.0	4	21	4	6	s.	J. M. Maddy.
Kenton	Cimarron	4,000	10	55.7	− 0.2	89	1	30	23	49	1.05	+ 0.13	0.40	T.	4	22	1	8	s.	L. A. Wikoff.
Kingfisher	Kingfisher	1,046	12	63.4	+ 0.1	95	5	36	10†	45	2.41	− 0.21	2.04	0.0	3	19	8	4	s.	J. C. Cross.
McAlester[1]	Pittsburg	698	17	65.0	.....	92	14	35	24	44	1.40	− 2.38	1.04	0.0	2	18	1	2	s.	Wm. Noble.
McComb	Pottawatomie	1,200	15	62.1	+ 0.3	91	5	32	24	45	2.50	− 0.05	1.10	0.0	3	20	9	2	s.	Jas. E. McNair.
Mangum	Greer	1,535	17	60.6[a]	− 2.5	90[a]	3†	37	12†	45	3.17	+ 1.29	1.78	0.0	4	28	0	3	.....	Wade N. Johnson.
Marlow	Stephens	1,292	9	63.8	+ 1.0	92	4†	38	24†	46	0.88	− 1.50	0.35	0.0	4	24	1	6	se.	W. B. Anthony.
Meeker	Lincoln	1,030	16	61.6	+ 0.2	95	6	32	24	52	1.10	− 0.99	0.60	0.0	3	21	3	7	s.	Dr. John H. Baugh.
Muskogee	Muscogee	614	11	64.5	+ 2.2	95	2†	32	12†	42	2.10	− 1.42	1.15	0.0	3	17	6	8	s.	Prof. E. N. Collette.
Mutual	Woodward	.....	3	61.0	.....	91	2†	35	10†	47	3.34	.....	2.35	0.0	4	21	4	6	s.	Thos. Martin.
Neola	Caddo	1,500	4	62.8	.....	91	4	36	12	40	2.08	.....	1.14	0.0	3	25	3	3	s.	R. M. Schooling.
Newkirk	Kay	1,149	13	61.9	+ 0.2	95	3†	33	12	42	2.73	+ 0.46	0.91	0.0	5	21	5	5	s.	P. H. Allright & Co.
Norman	Cleveland	1,171	16	64.1	+ 1.2	95	14	33	10†	53	1.80	− 0.48	1.10	0.0	4	16	10	5	s.	Walter H. Meier.
Okeene	Blaine	1,194	6	61.6	.....	92	1†	35	10	42	4.67	.....	2.60	0.0	4	21	5	5	s.	Dr. L. H. Murdock.
Oklahoma	Oklahoma	1,347	20	62.3	+ 1.0	90	1	36	24	35	1.73	− 0.08	1.41	0.0	4	19	6	6	s.	U. S. Weather Bureau.
Okmulgee	Okmulgee	752	7	62.2[d]	.....	94[c]	5	28[d]	24	57	1.89	.....	0.92	0.0	3	18[c]	5[c]	5[c]	s.	J. L. Maynard.
Pauls Valley	Garvin	880	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. M. Foss.
Pawhuska	Osage	918	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Block.
Perry	Noble	1,060	12	63.0[f]	+ 0.6	94	1†	34[k]	24	42[k]	2.86	+ 0.16	1.33	0.0	4	22	3	6	s.	J. A. Douglas.
Ravia	Johnson	796	8	65.6	.....	95	5	36	10†	46	2.05	.....	0.88	0.0	4	24	2	5	s.	R. G. Guptill.
Sac and Fox Agency	Canadian	900	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Henderson.
Shawnee	Pottawatomie	1,041	9	62.6	.....	93	1†	33	24	46	1.71	.....	1.13	0.0	4	22	2	7	s.	Neal R. Clark.
Snyder	Kiowa	1,356	3	64.2	.....	91	14	37	24	45	1.42	.....	0.75	0.0	3	23	5	3	s.	Dr. W. G. Woodard.
Stillwater	Payne	880	17	60.6	− 1.0	92	1†	34	24†	47	2.17	− 0.31	1.11	0.0	5	23	1	7	s.	John M. Speidel.
Supply	Woodward	.....	2	55.3	.....	89	2†	30	19	43	2.54	.....	2.38	0.0	3	20	8	3	s.	A. H. Trimbo.
Temple	Comanche	925	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. F. Fitch.
Tulsa (1)	Tulsa	700	21	62.1[b]	.....	94[a]	1†	30[c]	24	47[c]	1.55	− 1.59	0.67	0.0	4	25	2	3	s.	William Hall.
Tulsa (2)	....do	702	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Pearl E. Towers.
Vinita	Craig	698	6	61.7	.....	95	1†	25	12	49	2.40	.....	0.80	0.0	6	16	6	9	s.	Lyman Bros.
Wagoner	Wagoner	588	13	63.2	− 0.2	94	3	39	24	41	2.10	− 0.88	0.79	0.0	5	20	3	8	s.	S. L. Hatfield.
Waukomis	Garfield	1,258	13	61.6	− 1.9	94	4	34	13	45	4.62	+ 1.84	1.65	0.0	5	20	6	5	sw.	R. C. Shades.
Weatherford	Custer	1,639	8	63.8	.....	91	3†	38	26	42	3.15	.....	1.41	0.0	5	22	3	6	s.	M. D. Reed.
Webbers Falls	Muskogee	479	11	61.6	0.0	94	6	29	13†	48	1.46	− 1.71	0.60	.....	4	14	12	5	e.	B. D. Boulineau.
Whiteagle	Kay	945	4	63.5	.....	93	1	28	12	42	2.36	.....	0.89	0.0	6	24	6	1	s.	J. M. Dankwardt.
Woodward	Woodward	...	1	59.4	.....	89	16	32	10	45	2.95	.....	2.40	0.0	4	23	1	7	s.	R. A. Boyle.
Missouri.																				
Belle	Maries	.....	17	60.1[i]	+ 0.3	89[i]	3†	24[i]	13	50[i]	0.37[i]	− 2.04	0.22[i]	0.0	2[i]	11[i]	7[i]	4[i]	s.	A. J. Wofford.
Birchtree	Shannon	1,200	15	59.0[c]	+ 1.2	93[c]	4	25[c]	13	39[c]	1.88[a]	− 0.16	0.95[a]	0.0	2[a]	19[a]	4[a]	5[a]	nw.	V. H. Kirkendall.
Cape Girardeau	Cape Girardeau	346	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. L. Albert.
Caruthersville	Pemiscot	.....	18	61.5	+ 2.0	95	4	30	12	45	2.36	+ 0.16	1.23	0.0	4	24	0	7	e.	H. E. Averill.
Dean	McDonald	.....	10	60.0[b]	− 0.7	94[b]	3	24[b]	12	50[b]	12	+ 1.11	1.83[b]	0.0	7[b]	20[b]	1[b]	8[a]	.....	H.E. Dean.
Doniphan	Ripley	440	5	57.6	.....	88	3†	25	13	42	0.75	.....	0.57	0.0	2	19	2	9	s.	W. W. Martin.
Farmington[f]	St. Francois	889	2	53.6	.....	88	3	26	13	41	2.46	.....	0.77	T.	5	17	0	9	.....	Miss Helen Montgomery.
Gano	Dent	.....	5	58.8	.....	91	4	28	12†	41	1.88	.....	0.80	0.0	5	19	4	8	s.	A. C. Leech.
Goodland	Iron	900	4	55.3	.....	89	3†	21	13	43	1.94	.....	1.08	0.0	5	20	3	8	s.	F. M. Adams.
Greenville	Wayne	.....	14	59.2	+ 1.4	96	3	23	13	53	0.75	− 1.14	0.75	0.0	1	19	12	0	s.	A. G. Templeton.
Ironton	Iron	925	31	55.0	− 0.8	90	3	21	13	42	0.88	− 1.85	0.40	T.	4	18	4	9	n.	W. H. Delano.
Jackson	Cape Girardeau	458	18	58.5	+ 1.9	91	3	25	13	43	1.14	− 1.63	0.78	T.	5	16	8	7	s.	L. M. Bean.
Joplin	Jasper	979	30	62.8	.....	90	3	28	12	31	2.83	− 0.31	1.40	0.0	3	23	1	7	s.	Miss Elizabeth Russum.
Koshkonong	Oregon	911	9	61.7	.....	92	3†	30	13	34	1.38	.....	0.80	0.0	4	19	10	2	se.	J. W. Hitt.
Lamar	Barton	964	28	60.2	+ 1.6	95	4†	25	12	45	1.74	− 1.37	0.76	0.0	3	20	3	8	s.	E. H. Adams.
Marble Hill	Bollinger	420	16	57.8	+ 0.4	91	4	28	12	44	1.15	− 1.04	1.15	0.0	1	20	10	1	s.	A. F. Hendricks.
Marshfield	Webster	1,492	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. P. Keeler.
Mt. Vernon	Lawrence	1,480	33	59.6	+ 0.3	91	2†	27	12	45	3.69	+ 0.38	1.33	0.0	7	19	6	6	se.	Dr. O. H. Brown.
Neosho	Newton	1,023	25	59.6	+ 0.4	92	1	25	12	47	2.92	− 0.27	1.36	0.0	8	18	3	10	sw.	H. D. Dean.
Oakfield	Franklin	793	17	57.2	− 1.6	89	3	26	13	37	3.23	+ 0.82	1.75	0.0	8	13	10	8	s.	E. E. Steiner.
Olden	Howell	1,246	19	59.0	+ 0.2	91	4	28	12	42	2.57	+ 0.23	1.70	0.0	2	19	7	5	sw.	J. D. Evans.
Perryville	Perry	582	1	52.2[e]	.....	81[e]	7	21[e]	13	42[e]	0.10[e]	.....	0.10[e]	0.0	1[e]	14[e]	0[e]	12[e]	s.	S. L. Cayton.
Poplar Bluff	Butler	343	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Thomes.
Sikeston	Scott	328	14	60.1	+ 0.7	90	3	27	13	41	1.27	− 1.19	1.10	0.0	3	22	2	7	sw.	A. A. Harrison.
Springfield	Greene	1,350	22	59.4	+ 2.1	90	3	27	12	32	2.29	− 0.51	1.43	0.0	8	20	5	6	nw.	U. S. Weather Bureau.
Steelville	Crawford	1,746	12	58.0	.....	90	3	23	13	56	1.99	− 0.21	0.81	0.0	4	22	3	6	n.	Edwin Pumphrey.
Willow Springs	Howell	1,300	16	58.8	+ 1.3	94	4	24	13	42	3.03	+ 0.72	1.30	0.0	3	20	3	8	se.	John Lovewell.
Kentucky.																				
Blandville	Ballard	445	29	57.3	− 0.6	85	3	29	13	30	2.72	− 0.06	2.45	0.0	5	16	10	5	sw.	E. W. Horr.
Lynnville	Graves	.....	8	59.2	.....	88	4	26	13	39	1.58	.....	0.93	0.0	5	27	0	4	sw.	Wm. Scherffius.
Tennessee.																				
Arlington	Shelby	.....	28	58.0	− 1.2	91	5	27	13	47	1.04	− 1.11	0.54	0.0	2	23	3	5	s.	A. T. B. Etheridge.
Bolivar	Hardeman	450	25	58.2[a]	− 1.0	88[a]	4	28[a]	13	43[a]	1.01	− 1.73	0.53	0.0	3	22	3	6	n.	Miss M. A. Smith.
Brownsville	Haywood	361	27	59.4	+ 0.2	87	4	32	13	37	0.95	− 1.38	0.34	0.0	3	21	5	5	s.	Miss Hattie N. Moss.
Covington	Tipton	311	27	60.6[a]	+ 0.6	90[a]	5	29[a]	13	41[a]	1.20	− 0.93	1.00	0.0	3	26	0	5	s.	J. S. Ruffin.
Dyersburg	Dyer	310	27	59.4	+ 0.2	88	4†	29	13	36	1.25	− 1.05	0.70	0.0	3	25	1	5	se.	M. A. Sinclair.
Jackson	Madison	450	16	62.0	+ 1.8	94	4†	27	13	45	1.36	− 1.12	0.70	0.0	3	24	3	4	se.	T. H. Hartmus.
Kenton	Obion	.....	8	61.3	+ 1.6	93	4	28	13	42	1.74	− 0.54	0.88	0.0	4	23	2	6	s.	G. S. Martin.
Memphis	Shelby	409	39	63.4	+ 0.9	86	4	40	13	25	1.03	− 1.71	0.39	0.0	5	21	5	5	sw.	U. S. Weather Bureau.
Milan	Gibson	440	27	57.8	− 1.0	86	5	28	13	42	1.58	− 0.88	1.22	0.0	5	20	1	10	s.	O. F. Cantwell.
Trenton[a]	....do	345	28	59.2	+ 0.4	90	4	23	13	44	1.39	− 1.36	0.97	0.0	2	24	3	4	sw.	Prof. F. L. Dennison.
Union City	Obion	360	14	60.4	− 0.6	90	4	25	13	46	1.33	− 0.76	0.71	0.0	3	19	10	2	s.	Earl A. Kinsey.
Arkansas.																				
Alicia	Lawrence	.....	5	60.2	.....	89	4	28	13	50	0.00	.....	0.00	0.0	0	23	7	1	s.	McCullough & Guelck.
Amity	Clark	250	17	64.0	+ 0.8	97	5†	31	25	52[a]	2.81	− 0.12	2.20	0.0	2	24	4	3	ne.	Prof. S. M. Samson.
Arkadelphia (near)	....do	250	2	65.0[a]	.....	93[a]	6	34[a]	25	39[a]	2.16	.....	1.82	0.0	3	24	6	1	s.	J. A. Ross.
Arkansas City	Desha	145	26	.....	.....	.....	.....	.....	.....	.....	1.60	− 0.04	0.90	0.0	2	.....	.....	.....	.....	W. C. Blundell.
Batesville (1)	Independence	271	10	.....	.....	.....	.....	.....	.....	.....	0.62	.....	0.54	0.0	5	.....	.....	.....	.....	John Q. Wolf.
Batesville (2)	....do	271	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Lelia I. Feter.
Bee Branch	Van Buren	.....	17	63.8[a]	+ 1.4	98[a]	5	31[a]	13	44[a]	1.10	− 1.30	0.70	0.0	2	.....	.....	.....	.....	J. E. Scanlan.
Benton	Saline	283	2	65.8	.....	95	5	35	13	41	3.13	.....	1.96	0.0	3	12	14	5	s.	J. E. Evans.
Bentonville	Benton	1,303	4	60.2	+ 2.2	91	3	28	12	39	3.12	+ 0.31	1.13	0.0	7	19	8	4	s.	U. S. Weather Bureau.
Bergman	Boone	1,324	13	59.7[d]	− 0.1	96[b]	5	25[f]	12†	46[b]	2.58	+ 0.39	1.47	0.0	3	21	4	6	sw.	John T. Maxey.
Black Rock	Lawrence	.....	5	.....	.....	.....	.....	.....	.....	.....	0.54	.....	0.54	0.0	2	.....	.....	.....	.....	S. J. Howe.
Brinkley	Monroe	226	23	61.9	0.0	94	5	29	13†	57	1.28	− 1.16	0.95	0.0	3	20	8	3	s.	H. L. D. Whitson.

TABLE 1.—*Climatological data for October, 1909. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Arkansas—Cont'd.																				
Calico Rock	Izard	361	5								0.74		0.54	0.0	3					W. H. Stoner.
Camden	Ouachita	158	24	65.3	+ 1.9	96	5	33	25	45	2.12	− 0.24	0.96	0.0	5	21	2	8	se.	R. H. Quarterman.
Centerpoint	Howard		9	67.0		97	6	39	24†	45	4.50		3.00	0.0	3	23	5	3	sw.	J. M. Huddleston.
Clarendon	Monroe	171	5								0.54		0.45	0.0	2					Mrs. B. E. Bishop.
Conway	Faulkner	309	26	61.8	+ 0.7	93	5	32	13	41	1.91	− 0.26	0.74	0.0	4	21	7	3	s.	G. H. Burr.
Corning	Clay	293	17	60.4	+ 1.6	93	4	26	13	43	1.28	− 1.19	1.24	0.0	3	18	8	5	s.	Jacob Brobst.
Dardanelle	Yell	330	23	62.4		96	3†	34	13†	53	3.38	+ 1.08	3.00	0.0	3	21	6	4		A. Bernard.
Dodd City	Marion	1,175	28	61.7[e]	+ 1.5	92[e]	4†	29[e]	13	41[e]	2.92	− 0.03	1.76	0.0	2				s.	Neal Dodd.
Dutton	Madison		8	59.2		91	5†	28	13	44	4.00		1.62	0.0	4	17	11	3	s.	T. S. Williamson.
Earl	Crittenden		3	62.4[f]		92[f]	4	29[f]	13	43[f]	0.94		0.94	0.0	1					W. J. Moss.
Eldorado	Union	265	5	64.8		92	5†	36	25	39	1.59		1.24	0.0	3	22	1	8	e.	Fred A. Babb.
England	Lonoke		3	63.2		92	6	31	13	48	0.32		0.32	0.0	1	21	8	2	sw.	J. C. Chenault.
Eureka Springs	Carroll		8	59.6[h]		94[h]	3	35[h]	28	35[h]	3.33		1.95	0.0	4	13	10	8	sw.	Jas. T. Pomeroy.
Fayetteville	Washington	1,451	20	64.3[g]	+ 3.9	96[g]	6	28[g]	12	42[g]	3.63	+ 0.58	1.28	0.0	6	22	5	4	sw.	University of Arkansas.
Fort Smith	Sebastian	481	27	63.9	+ 2.2	92	4	36	13	38	3.83	+ 1.00	1.81	0.0	6	22	5	4	e.	U. S. Weather Bureau.
Fulton	Hempstead	264	5								1.60		1.10	0.0	2					B. C. Logan.
Hardy	Sharp	643	11	61.8	+ 0.6	91	3†	31	13	43	0.70	− 1.71	0.53	0.0	3	18	6	7	sw.	C. A. Caywood.
Helena (1)	Phillipi	182	24	63.0	+ 0.7	93	4†	32	13	43	0.62	− 1.72	0.52	0.0	2	23	0	8	se.	Robert Kyle.
Helena (2)	...do	182	8																	B. F. Modisett.
Hot Springs	Garland	600	3	61.2		92	6	30	13	46	2.90		2.00	0.0	3	27	3	1	nw.	Hot Springs Water Co.
Huttig	Union	85	2	66.0[e]		91[e]	5†	33[e]	25	41[e]	1.68		1.53	0.0	3					C. A. Berry.
Jonesboro	Craighead	345	14	61.2		94	4	26	13	44	0.31	− 2.35	0.31	0.0	1	25	6	0	s.	Benedictine Sisters.
Junction	Union		16	64.6[d]	+ 1.1	89[h]	8	34	25	38[h]	1.40	− 1.82	0.86	0.0	2	25	2	4	sw.	J. A. Lowderback.
Lacrosse	Izard		15																	R. E. Kennard.
Lake Farm	Jefferson	195	2	63.6		96	3	30	13	51	1.10		1.10	0.0	1	24	7	0	s.	R. H. Gillespie.
Lewisville	Lafayette	262	6	67.8		96	5	36	25	46	3.17		1.70	0.0	5	21	6	4		F. W. Youmans.
Little Rock	Pulaski	357	30	64.2	+ 1.3	90	5	40	13	30	0.84	− 1.71	0.30	0.0	6	22	5	4	e.	U. S. Weather Bureau.
Lutherville	Johnson	775	12	62.2	+ 0.5	95	4	30	13	43	4.68		2.96	0.0	3	20	8	3	sw.	Herman Hentschel.
McNeil	Columbia	321	2	66.0[a]		96[a]	6	35[a]	25	44[a]	2.81		1.52	0.0	3	23	5	3	s.	L. A. Smith.
Malvern	Hot Spring	277	22	62.4	− 0.7	92	6	32	25	43	1.63	− 0.53	1.43	0.0	2	13	4	14	ne.	Miss L. C. Smith.
Mammoth Spring	Fulton		5	58.6		90	4	25	13	47	1.16		0.78	0.0	4	16	15	0		F. Wallick.
Marked Tree	Poinsett		5								T.		T.	0.0	0					L. Smith.
Mena	Polk	1,100	23	64.4	+ 2.0	91	6	34	13	36	3.48	+ 1.00	1.99	0.0	5	26	2	3	sw.	D. H. Hopkins.
Mossville	Newton		16	59.4	− 0.1	90	4†	27	12	33	4.31	+ 0.72	2.10	0.0	3	21	3	7	s.	Theo. Ober.
Mount Nebo	Yell	1,750	19	62.0	+ 1.4	87	4	34	12	31	4.84	+ 2.54	2.50	0.0	4	26	0	5	s.	T. G. Church.
Newport (1)	Jackson	231	25	60.6	− 0.1	89	4	31	13	46	0.83	− 1.12	0.75	0.0	5	25	0	6	nw.	Mrs. A. B. Hillhouse.
Newport (2)	...do	231																		A. V. Hughes
Ozark	Franklin	377	18	65.4[e]	+ 1.5	97[d]	4†	38[e]	13	39[h]	41.2	+ 1.44	1.82	0.0	4	23	6	2	e.	R. M. Adams.
Pine Bluff	Jefferson	215	21	66.0	+ 2.7	94	5	34	13	46	0.90	− 1.09	0.90	0.0	1	23	3	5	w.	J. H. Hudson.
Pocahontas	Randolph		17	62.2	+ 2.5	93	4	27	13	44	0.51	− 1.84	0.46	0.0	2	17	12	2		Benedictine Sisters.
Pond	Benton	1,250	12	60.9	+ 1.5	93	3	24	12	44	4.20	+ 1.41	1.95	0.0	6	11	10	10	sw.	A. F. Stevens.
Portland	Ashley	122		65.9		98	5	33	25	48	1.30		1.30	0.0	1	20	3	8	nw.	T. A. Corson.
Prescott	Nevada	327	21	65.3	+ 1.1	97	6	34	25	47	3.56	+ 1.22	2.72	0.0	4	22	2	7	ne.	A. M. Ellsworth.
Princeton	Dallas	287	8																	Capt. D. R. Feaster.
Rogers	Benton	1,385	18	60.8	+ 1.3	94	3	28	12	43	3.25	+ 0.65	1.69	0.0	5	19	6	6	s.	Carl A. Stark.
Russellville	Pope	348	24																	J. F. Hodgins.
Spielerville	Logan	1,050	12	64.2	+ 0.5	95	3	33	13	42	3.57	+ 0.62	2.35	0.0	5	19	5	7	se.	New Subiaco Abbey.
Springbank	Miller	182	2								2.42		2.06	0.0	3					G. Field.
Stuttgart	Arkansas	495	22	63.5	+ 2.0	97	3	32	13	41	0.66	− 2.16	0.66	0.0	1	24	5	2	sw.	H. A. Buerkle.
Texarkana	Miller	332	25	65.6	− 0.2	92	6	41	24	39	3.75	+ 1.24	3.35	0.0	3	23	3	5	nw.	W. B. Weeks.
Warren	Bradley	304	14	63.7	− 0.5	93	5	34	25	44	2.08	− 1.56	1.98	0.0	2	19	5	7	s.	W. J. Savage.
Whitecliffs	Little River	206	5								2.70		1.80	0.0	4					John E. Payton.
Wiggs	Garland		16	62.6	− 1.1	94	5	29	13†	48	3.51	+ 0.56	2.68	0.0	3	20	9	2	sw.	S. D. Jester.
Wynne	Cross		1	61.2		91	5	30	13	50	0.60		0.33	0.0	4	23	2	6	se.	R. R. Poole.
Mississippi.																				
Anguilla	Sharkey		1	64.4		90	6	35	13†	38	2.71		1.83	0.0	2	23	3	5	se.	E. W. Cook.
Austin	Tunica	200	13	61.8	− 0.8	90	5	29	13	42	1.23	− 1.05	1.23	0.0	1	27	2	2	sw.	H. J. Irvine.
Batesville	Panola	230	22	61.8	+ 0.5	95	5	30	13†	55	0.24	− 1.45	0.16	0.0	2	26	1	4	e.	J. M. Cox.
Byhalia	Marshall	390									0.59		0.26	0.0	3	18	9	4	sw.	Tallahatchie Dng. Com.
Canton	Madison	228	19	66.0	+ 1.6	92	5†	30	25	45	0.06	− 2.10	0.05	0.0	2	26	4	1	se.	Dr. G. W. Smith-Vanis.
Clarksdale	Coahoma	177	2	63.2[b]		93[b]	5	31[a]	13	46[c]	0.95		0.65	0.0	2	25	1	5	se.	J. F. Durham.
Coffeeville	Yalobusha										0.32		0.32	0.0	1	28	2	1	n.	Tallahatchie Dng. Com.
Corinth	Alcorn	430	21	60.4	− 0.5	90	5	31	25	41	2.87	+ 0.79	1.90	0.0	6	23	0	8	se.	Milton A. Chandler.
Crenshaw	Panola	187									1.15		1.07	0.0	4	19	10	2	se.	Tallahatchie Dng. Com.
Denmark	Lafayette										1.10		0.70	0.0	2					Do.
Duck Hill	Montgomery		10	63.6		94	4†	29	25	49	0.30		0.30	0.0	1	23	7	1	s.	W. H. Eskridge.
Edwards	Hinds	222	22	66.5	+ 1.1	94	6	33	25	39	1.35	− 1.09	1.30	0.0	2	22	8	1	nw.	C. R. Knox.
Enid	Tallahatchie																			Tallahatchie Dng. Com.
Fayette	Jefferson	282	8	66.2[e]	+ 1.3	92[e]	6	33[e]	25	42	1.32	− 1.12	1.32	0.0	1	25	2	2	w.	T. L. Darden.
Greenville	Washington	126	22	64.8	+ 0.6	91	5	35	25	43	1.55	− 0.48	0.92	0.0	3	26	1	4	se.	F. L. Harbison.
Greenwood	Le Flore	140	9	63.2	− 0.3	93	5	32	25	43	1.52	− 0.30	1.04	0.0	4	12	12	7	se.	J. H. Stephen.
Grenada	Grenada										T.		T.	0.0	0	31	0	0	sw.	Tallahatchie Dng. Com.
Hernando	De Soto	391	21	63.4	+ 1.0	93	5	35	12†	47	1.20		1.10	0.0	4	26	1	4	ne.	Miss Josephine G. Jones.
Hickory Flat	Benton	435									0.70		0.70	0.0	1	20	7	4	n.	Tallahatchie Dng. Com.
Holly Springs	Marshall	600	22	60.8	− 0.9	88	5	33	13	43	0.61	− 1.46	0.24	0.0	4	25	0	6	se.	L. B. Mosby.
Kosciusko	Attala	430	19	61.8	− 0.5	91	5	31	25	47	0.37	− 1.84	0.30	0.0	3	24	5	2	e.	E. L. Lucas.
Lake Cormorant	De Soto	206									0.64		0.42	0.0	2	20	6	5	se.	Tallahatchie Dng. Com.
Lula	Coahoma	182									1.09		1.09	0.0	1	24	7	0		Do.
Malone	Marshall										T.		T.	0.0	0	24	5	0	e.	Do.
Marks	Quitman	163									0.91		0.91	0.0	1					Do.
Natchez	Adams	206	21	69.5	+ 2.5	95	7	42	25†	39	1.82	− 0.83	1.82	0.0	2	17	7	7	n.	J. C. Weir.
New Albany	Union	398									1.20		0.70	0.0	3	20	9	2		Tallahatchie Dng. Com.
Pontotoc	Pontotoc	475	20	62.0	− 0.3	90	5	33	13†	36	1.02	− 0.56	0.40	0.0	4	19	12	0	nw.	Dr. C. W. Bolton.
Port Gibson	Claiborne	116	21	64.0	− 0.2	92	7	31	25†	47	1.73	− 0.29	1.73	0.0	1	22	4	5	sw.	H. H. Crisler.
Ripley	Tippah		10	62.4	+ 1.0	90	7	28	13†	49	0.20	− 2.81	0.10	0.0	2	30	1	0	s.	S. W. Pegram.
Rosedale	Bolivar	143	1	62.4		90	5†	32[a]	25	43[a]	1.11		0.61	0.0	2	17	7	7	nw.	W. A. Shelby.
Senatobia	Tate										0.88		0.86	0.0	2	29	0	2	ne.	Tallahatchie Dng. Com.
Shoccoe	Madison		6	66.6		93	4†	33	25	43	0.00		0.00	0.0	0	27	4	0	w.	J. C. Pitchford.
Suffolk	Franklin		8	68.6		94	5	36	25	37	1.33		1.33	0.0	1	25	3	3	n.	Prof. Geo. H. Kent.
Swan Lake	Tallahatchie	148	8								0.30		0.30	0.0	1					B. F. Saunders.
Tuchula	Holmes	130	4	65.0		92	5	32	25	44	1.40		0.90	0.0	2	22	6	3	w.	Dr. M. P. Winkler.
University	La Fayette	502	17																	Prof. J. W. Johnson.
Utica	Hinds	287	5	66.4[b]		92[a]	7	37[b]	25	39[b]	1.03		0.65	0.0	2	26	4	1	n.	Dr. J. B. Dudley.
Vicksburg	Warren	247	38	68.0	+ 2.7	91	7	41	25	28	1.89	− 0.91	1.82	0.0	2	19	11	1	e.	U. S. Weather Bureau.
Water Valley	Yalobusha	300	20	63.8	+ 0.7	93	5	32	13†	44	0.40	− 2.11	0.30	0.0	2	24	5	2	s.	Miss Lula Erikson.
Woodville	Wilkinson	560	16	69.4	+ 2.8	94	5	39	25	35	2.29	− 0.38	2.29	0.0	1	30	0	1	se.	James E. Lee.
Yazoo City	Yazoo	116	15	65.2	+ 0.9	92	5†	38	13†	42	0.80	− 1.07	0.56	0.0	3	23	4	4	se.	H. S. Orr.

TABLE 1.—*Climatological data for October, 1909. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Louisiana.																				
Abbeville	Vermilion	18	22	68.6	− 0.6	92	4†	39	25	42	2.35	− 1.02	1.75	0.0	3	22	7	2	se.	Hon. C. J. Edwards.
Alexandria	Rapides	77	21	66.6	+ 0.4	97	8	34	25†	46	2.58	− 0.12	2.58	0.0	2	18	6	7	e.	Miss Nellie Graham.
Amite	Tangipahoa	130	21	66.8	+ 0.4	92	5†	35	25†	43	3.00	+ 0.60	2.00	0.0	2	18	13	0	n.	Miss Lula M. Wentz.
Baton Rouge	E. Baton Rouge	35	20	70.0	+ 2.3	96	5	38	25	36	1.40	− 1.88	1.40	0.0	2	24	1	6	e.	Elmo M. Bott.
Burnside§	Ascension	20	9	.....	.....	97[c]	6	40[d]	25	40[c]	1.94	.....	0.97	0.0	3	21	6	4	n.	C. S. McFarland.
Burrwood	Plaquemines	1	19	75.8	+ 2.5	89	6†	58	24	17	0.10	− 4.28	0.10	0.0	1	22	3	6	n.	Graham Myers.
Calhoun	Ouachita	180	17	66.2	+ 2.2	93	5	33	25	42	1.89	− 0.52	1.70	0.0	2	22	7	2	s.	N. L. Exp. Station.
Cameron	Cameron	6	14	71.9	+ 2.1	92	6	47	1	40	2.35	− 0.57	2.00	0.0	2	18	12	1	se.	State Biologic Station.
Cheneyville	Rapides	67	22	66.8	+ 1.0	94	5	32	25	46	1.42	− 0.49	1.29	0.0	2	21	2	6	e.	Walter I. Tanner.
Clinton	East Feliciana	113	20	66.8	− 0.2	91	5†	37	25	38	1.39	− 1.13	0.80	0.0	3	19	2	10	n.	John A. White, jr.
Collinston	Morehouse	65	7	65.6[e]	.....	93[e]	7	32[d]	24	43[d]	1.15	.....	1.15	0.0	1	29	1	1	.....	W. A. Page.
Covington	St. Tammany	39	17	68.5	+ 1.6	96	6	38	25	42	2.48	− 0.17	2.01	0.0	2	20	4	7	n.	C. Champagne.
Dodson	Winn	.....	1	65.9[a]	.....	92	6†	35[a]	25	45	2.48	.....	2.48	0.0	1	23	3	5	s.	J. P. Lucas.
Donaldsonville	Ascension	33	19	71.7	+ 2.7	94	6	51	31	34	1.40	− 1.47	1.10	0.0	2	28	3	0	e.	John F Park.
Farmerville	Union	177	19	64.7[d]	+ 1.2	90[d]	4†	35[e]	24	39[d]	1.76	− 0.97	1.76	0.0	1	25	4	2	s.	W. P. Chandler.
Ferriday	Concordia	.....	3	65.8	.....	93	7	32	25	40	2.85	.....	2.85	0.0	1	28	0	3	n.	R. Z. Slater.
Franklin	St. Mary	10	17	70.6	+ 2.0	95	5	41	25	40	1.98	− 1.09	0.95	0.0	3	18	4	9	n.	Miss Josephine M. Bonney
Grand Cane	De Soto	302	3	66.5	.....	95	6	41	2	49	4.10	.....	2.30	0.0	3	25	1	5	s.	J J. Paxton.
Grand Coteau	St. Landry	93	17	70.2	+ 2.8	94	5	39	25	37	2.75	− 0.35	2.30	0.0	2	25	5	1	sw.	St. Charles College.
Hammond	Tangipahoa	44	10	68.4	+ 1.3	94	5†	36	25	40	1.13	− 1.73	0.52	0.0	3	28	2	1	se.	C. C. Carr.
Houma	Terrebonne	.....	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Haggerty.
Jennings	Calcasieu	30	11	69.7	+ 1.2	95	5	43	25	40	1.82	− 2.05	1.80	0.0	3	19	8	4	ne.	J. F. Buch.
Lafayette	Lafayette	36	22	69.1	+ 1.3	93	5	38	25	42	2.26	− 0.73	1.79	0.0	4	21	5	5	e.	J. J. Davidson.
Lake Charles	Calcasieu	22	21	68.6	+ 0.1	96	5	39	25	46	3.34	− 0.18	2.37	0.0	2	25	2	4	n.	A. O. Boudreaux.
Lakeside	Cameron	.....	8	70.5	.....	94	5†	42	24†	33	2.07	.....	2.07	0.0	1	27	0	4	ne.	L. J. Nunemacher.
Lawrence	Plaquemines	6	19	70.3	0.0	92	5	49	24	32	2.78	− 0.13	2.25	0.0	3	25	4	2	n.	H. C. Warmoth.
Liberty Hill	Bienville	.....	22	69.6	+ 3.7	96	5	33	25	50	1.49	− 1.40	1.43	0.0	2	25	2	4	n.	Dr. E. A. Crawford.
Logansport	De Soto	192	4	.....	.....	.....	.....	.....	.....	.....	2.46	.....	1.50	0.0	3	19	6	6	s.	Mrs. Bettie M. Dennis.
Melville	St. Landry	45	22	67.2	0.0	93	5†	35	25	45	1.98	− 0.76	1.45	0.0	2	20	6	5	ne.	Chas. B. McNeill.
Minden	Webster	194	21	65.7	+ 0.2	96	5	36	25†	48	1.60	− 0.97	1.60	0.0	1	22	3	6	s.	Miss Ethel Fort.
Monroe	Ouachita	82	22	67.3	+ 1.5	92	5	39	26	44	1.60	− 0.87	1.60	0.0	1	25	2	4	s.	Eugene Stannard.
Morgan City	St. Mary	14	4	.....	.....	.....	.....	.....	.....	.....	1.26	.....	0.98	0.0	2	22	3	6	ne.	Virgil E. Kinsey.
Newellton	Tensas	.....	2	64.5	.....	89	8	35	25	37	1.81	.....	1.65	0.0	2	17	13	1	n.	John D. Fults.
New Iberia	Iberia	15	19	70.0[l]	+ 1.3	90[m]	5†	43[f]	25	30[m]	2.70	− 0.05	2.00	0.0	3	18	9	4	se.	Mrs. Jno. A. Gebert.
New Orleans (1)	Orleans	15	35	72.4	+ 2.9	91	5	51	24	25	3.63	+ 0.70	2.21	0.0	5	19	10	2	e.	U. S. Weather Bureau.
New Orleans (2)	....do	18	22	71.2	+ 2.7	89	5†	44	25	31	3.70	+ 1.26	1.80	0.0	6	23	5	3	s.	Sugar Exp. Station.
New Orleans (3)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.58	.....	2.48	0.0	4	.....	.....	.....	.....	Sewerage and Water Board, New Orleans Drainage Commission.
New Orleans (4)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.57	.....	1.76	0.0	6	.....	.....	.....	.....	
New Orleans (5)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.36	.....	3.41	0.0	4	.....	.....	.....	.....	
New Orleans (6)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.70	.....	2.24	0.0	4	.....	.....	.....	.....	
New Orleans (7)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.83	.....	2.30	0.0	4	.....	.....	.....	.....	
New Orleans (8)	....do	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.38	.....	1.90	0.0	4	.....	.....	.....	.....	
Opelousas	St. Landry	83	18	68.2[f]	+ 0.8	95[f]	5	35[e]	25	42[e]	2.20	− 0.57	1.70	0.0	2	.....	.....	.....	.....	Andrew Moresi.
Pearl River	St. Tammany	.....	3	.....	.....	.....	.....	.....	.....	.....	3.86	.....	1.98	0.0	4	21	1	9	n.	George F. Bancks.
Plain Dealing	Bossier	268	17	67.6	+ 2.6	94	5†	32	25	47	1.35	− 1.52	1.07	0.0	3	24	4	3	ne.	Leon Sanders.
Rayne	Acadia	44	18	72.4	+ 2.9	92	5	40	25	35	2.00	− 0.77	1.90	0.0	3	21	2	8	n.	A. P. McNeil.
Reserve	St. John Baptist	.....	8	65.3	.....	92	5†	38	24†	40	0.42	.....	0.42	0.0	1	20	10	1	.....	Leon Godchaux Co.
Robeline	Natchitoches	147	14	65.2	+ 1.2	94	6	31	25	46	2.05	− 0.42	2.00	0.0	2	21	6	4	n.	Miss Ruby McCook.
Ruston	Lincoln	312	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. H. McKinney.
Schriever	Terrebonne	17	18	71.6	+ 3.5	98	5	40	25	44	1.44	− 1.47	0.76	0.0	3	20	2	9	e.	Charles V. Moore.
Shreveport	Caddo	249	37	68.0	+ 2.4	90	5	43	25	32	1.27	− 1.91	1.10	0.0	4	25	2	4	se.	U. S. Weather Bureau.
Simmesport	Avoyelles	.....	4	.....	.....	.....	.....	.....	.....	.....	1.40	.....	1.04	0.0	3	13	6	12	.....	W. P. Denny.
Southern Univ. Farm	Jefferson	.....	14	.....	.....	.....	.....	.....	.....	.....	3.50	+ 1.25	1.60	0.0	6	19	8	4	se.	F. L. St. Martin.
St. Francisville	West Feliciana	115	5	65.6	.....	92	5	41	25†	44	1.50	.....	1.50	0.0	1	25	2	4	ne.	L. P. Kilbourne.
Sugartown	Calcasieu	.....	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. W. Richardson.
Tallulah	Madison	91	1	63.7	.....	93	4	32	25	44	2.33	.....	1.33	0.0	2	14	17	0	.....	G. P. Blair.

* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.
[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

TABLE 2—*Daily precipitation for October, 1909. District No. 7, Lower Mississippi Valley.*

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Colorado.																																	
Blaine	Cimarron						.10		.04																							.15	0.29
Buena Vista	Arkansas																																
Calhan	Big Sandy							.50	.67			T.																				.10	1.27
Canon City	Arkansas					.06	.18	.07	.58	.10																							0.99
Colorado Springs	Fountain						.01	.41	.10	T.		.05																					0.57
Cripple Creek	Oil Creek			T.	T.		.28	.45	T.	.03																						.22	0.98
Cuchara Camps	Cucharas					.30	.33	*	.12	.72																						.08	1.55
Eads	Big Sandy								1.35	T.																							1.35
Fairview	St. Charles				.27		.05	.29	.34																							.30	1.25
Florence	Arkansas				.15		.40																										0.55
Garfield	Little Arkansas				.03	.25	.31	.18	.10																							.23	1.10
Glen Eyrie	Fountain						.03	.42	.06																						T.		0.51
Hamps	Big Sandy							.32	.47																							.06	0.85
Hermit Lake	Grape Creek																																
Hoehne (near)	Purgatoire								T.																							.25	0.25
Holly	Arkansas							.30	.40			.06																				T.	0.76
Lake Moraine	Fountain				.05	.09	.04	.36	.22			.02																				.04	0.82
Lamar	Arkansas						.10	.43			T.																						0.53
Las Animas	...do						.68	.78																									1.46
La Veta Pass	Cucharas			.08		T.	.60	T.	.63	.28																						T.	1.59
Leadville	Arkansas				.04	.03	.34	.15	.03									T.														.22	0.81
Limon (near)	Big Sandy							.84	.30			T.																				.06	1.20
Marshall Pass	Arkansas					.06	.20	.60	.15																							.28	1.29
North Lake	Purgatoire				.15	.20	.13		.38	.14																						.06	1.06
Pueblo	Arkansas				T.	.08	T.	.16	.01			T.																					0.25
Rockyford (near)	...do			T.						.83																						.07	0.90
Saint Elmo	Chalk Creek				.16	.55	.20	.39	.04																							.13	1.47
Salida	Arkansas					.20	.08	.28	T.																								0.56
Santa Clara	Cucharas				.21	.15	.07		.67																								1.10
Sheridan Lake	Arkansas				T.				.45	.10																							0.55
Stonewall	Purgatoire		T.	T.	.03	.34	.21		.05	.05		T.																					0.68
Trinidad	...do		T.		.12		.10		T.			T.																				T.	0.22
Victor	Oil Creek			T.		.20	.17	.65	T.	T.		T.																					1.02
Vilas	Cimarron						.56		.54										.14													.05	1.29
Westcliffe	Grape Creek				.37	.13	.20		.40																								1.10
Winfield	Clear Creek				.06	.15	.28					T.						T.													.03		0.52
Wortman	Arkansas			T.	T.	T.	.10	.20	.90	.21	T.																				*	.70	2.11
New Mexico.																																	
Abbott	Canadian						.43	.09											.40	.20													1.12
Albert	...do						.20	.29	.17										1.50														2.16
Arch	Red																																
Aurora	Canadian						.43	.85	.43	.40																							2.11
Bell Ranch	...do		T.				.10	.42	.21									T.	1.20														1.93
Black Lake	...do			.01			.27	.08	.80										.03														1.19
Cabesa	...do	T.	T.				.09	.25	.23										1.45														2.02
Campana	...do						.47		.21									.35	2.01	.05													3.09
Chacon	...do						.26	.07	.80																								1.13
Cimarron	...do			.04			.27		T.	.06									.12														0.49
Clayton	...do							.34	.20										.57	T.													1.11
Cuervo	...do			T.			.04	.07	.02									T.	.71	.02													0.86
Dawson	...do			.50			.50																										1.00
Dorsey	...do																																
Elizabethtown	...do				.18	T.	.14	.40	.43	.18																				T.			1.33
Fort Union	...do	T.	T.	.10			.90	.05	.30									T.	.10														1.45
Hayden	...do					.27													1.12	.12													1.51
Lake Alice	...do		.24						.42	.37																						.04	1.07
Logan	...do						.20	.50	.60										1.50	.05													2.85
Los Alamos	...do			.08	.02		.56		.20											.18													1.04
Maxwell City	...do						.48												.20														0.68
Melrose	Red																	T.	T.														T.
Miami Ranch	Canadian						.59		.15	.10									.12														0.96
Montoya	...do							.16											.80	.04													1.00
Nara Visa	...do		T.				.11	.54	.71										1.48	.02													2.86
Raton	...do		.02	.04	.02		.15	.45	.05	.01									.35	.05												T.	1.10
Rociada	...do		.05	.03	.06		.20	.05	.45									.11	.38	.06													1.39
Roy	...do						.42	.30											1.17														1.89
San Jon	...do	T.	T.				.20	.15	.40									.09	1.21	.01													2.06
Solano (1)	...do		T.				.25	.37	.30										1.37	.07													2.36
Solano (2)	...do		T.				.25	.30	.33										1.29	T.													2.17
Springer	...do						.40	.10											.30	.20													1.00
Taylor	...do						1.80	.03	T.										.70														2.53
Trementina	...do						.08	.35	.15								T.	1.00															1.58
Tucumcari (1)	...do						.10	.41										*	1.39														1.90
Tucumcari (2)	...do						.17	.35										*	1.10	.07													1.69
Vermejo Park	...do	T.	T.		.20	.35	.52		T.	T.																							1.07
Wagon Mound	...do			.03	.02		.68	.02	.24			T.							.50	.20													1.69
Texas.																																	
Amarillo	Canadian								.04									.92	.21	.01													1.18
Arthur	Red									1.36											.80												2.16
Bonham	...do								1.17									.36	.63													.39	2.55
Canadian	Canadian																																
Channing	...do																																
Childress	Red							.20																									0.20
Chillicothe	...do								.97										.74	.13													1.84
Clarendon	...do																		1.22														1.22
Clarkesville	...do																																
Claude	...do																		.97	T.													0.97
Dalhart‖‖	Canadian							1.02		.08										.90	.60												2.60
Denison	Red									1.38										1.00	.06												2.44
Henrietta‖‖	...do								.39	.72									T.	T.												T.	1.11
Hereford	...do																																
Higgins	Canadian																																
McLean	Red																																
Memphis	...do							T.											1.06														1.06
Miami	Canadian							T.	T.										2.50														2.50
Mobeetie‖‖	Red																																
Nazareth	...do						.05											.92	.03														1.00
Ochiltree	Canadian																																
Pampa	...do																	1.85	.50														2.35
Paris‖‖	Red										1.07									.35	.32												1.74
Plemons	Canadian	T.						.47	T.			T.							1.80	.01													2.28
Quanah	Red							T.	.90									.23															1.13
Sherman‖‖	...do								1.52											.41	.08												2.01
Sulphur Springs	...do								4.00											.92												.17	5.09

TABLE 2.—*Daily precipitation for October, 1909. District No. 7*—Continued.

Stations.	River basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Texas—Cont'd.																																	
Texline	Canadian								T.										1.30													T.	1.30
Tulia	Red	T.						.11										1.52	T.	.02													1.65
Wichita Falls	...do								1.50																								1.50
Kansas.																																	
Anthony	Arkansas								.80	.32	.01								1.29	1.21	T.											.01	3.64
Ashland	Cimarron							.82	1.00	.02		.08						.01	.55	.36	.01	.02										.05	2.92
Burlington	Neosho								1.03	.09								.08		.85												.23	2.28
Chanute	...do								.90										.15													.46	1.51
Cimarron	Cimarron							.32	.08	.03	T.	.10							T.	.35	T.											T.	0.88
Coldwater	...do							.03	.29	.04		T.						T.	.40	.51	T.											.05	1.32
Columbus	Neosho								.44	T.		T.							.45	.10	.51		T.									1.55	3.05
Coolidge	Arkansas							.24	.69																							.18	1.11
Cottonwood Falls	Neosho								.25	.50	.05	T.							.02	.03	.18											.32	1.35
Council Grove	...do									1.02																							1.02
Cunningham	Arkansas							T.	1.25	.50	.05								T.	.95	T.											T.	2.75
Dodge City	...do							.04	.32	.04	T.	.03						.02	.18	.11		T.										.18	0.92
Eldorado	...do								.53	.88									.21		.59											.15	2.36
Ellinwood	...do							T.	1.13	.34	.06	.01						.04		.74			.01			T.						.07	2.40
Emporia	Neosho								1.04	.55	.03										.26											T.	1.88
Eureka	Verdigris								.80	.40	T.	T.							.46	T.	.22											.12	2.00
Fall River	...do								.20	.25								T.	.70	.02	.35											.02	1.54
Fargo	Cimarron							.50	.12			.01						T.	.16	.10	T.											T.	0.89
Fredonia	Verdigris								.33	.11		T.						T.	.25	.05	.44											.77	1.95
Garden City	Arkansas							.30	.15		.10								T.	T.	.20											T.	0.75
Great Bend	...do																																
Greensburg	...do							.02	2.48	.15	.01	T.	T.					T.	.13	.57	T.											.01	3.37
Grenola	Verdigris								.45	.21		T.							.72	.31	.03											.45	2.17
Howard	...do								.86										1.00	.30												.80	2.96
Hugoton	Cimarron						1.55	.50										T.	T.	.22												T.	3.27
Hutchinson	Arkansas							T.	1.45	.42		.01						T.	T.	.84	.13												2.85
Independence	Verdigris								.55	.02		T.							.47	.33	.03											.62	2.02
Iola	Neosho								.74	.01	T.	T.						.38	.22	.39	.01											.15	1.90
Jetmore	Arkansas								.40	.06		.10						T.	T.	.25	T.											T.	0.81
Kingman	...do								.97	.57		.10							.06	.89	.13												2.72
La Crosse	...do							T.	.94	.11		T.								.26												.23	1.54
Lakin	...do							.60	.21			.02								.03												T.	0.86
Larned	...do								.94	.22	T.	.06						.03		.05	.55	.01											1.86
Lebo	Neosho								.66	.34		T.						T.	.12	.06	.21				T.							.11	1.50
Le Roy	...do								.73	.02									.23	.03	.33	T.											1.34
Liberal	Cimarron							.73	.06			T.						T.	.23	.09	.02											.25	1.38
Macksville‖	Arkansas							T.	1.25	.27		.06						T.	.04	.64	T.												2.26
McPherson‖	...do								1.22	.49	.12									.34													2.17
Madison	Verdigris								.87	.18								T.	.28													T.	1.33
Marion	Neosho								.47	.73	.07								T.		.05												1.32
Medicine Lodge	Arkansas							.85	.33	.13		T.						.33	.60	.52											.03	.03	2.82
Medora	...do																																
Mt. Hope	...do							T.	.85	.16									T.	.55	.14												1.70
Neosho Rapids	Neosho								T.	.70	.20										.37												1.27
Ness City	Arkansas																																
Newton	...do								.70	.68	.02									.35	.23												1.98
Norwich	...do								1.09	.47	T.	.10							1.04	1.04	.13					T.						T.	3.87
Oswego	Neosho								.57			T.							.40	.59												.64	2.20
Pratt	Arkansas								1.10			.05						.02	.79													.02	1.98
Rome	...do							T.	.87	.24		.01						*	1.27	.75	.17											.15	1.98
Sedan‖	Verdigris								.35	.04									.25	.11	.27											.62	1.64
Toronto‖	...do								.60	.05									1.05		.35											.10	2.15
Ulysses	Cimarron						.86		.12										.15														1.13
Walnut	Neosho								T.	.43									.44	.87	.64											.50	2.88
Wichita	Arkansas							.08	1.08	.23		.01						.87	T.	.66	T.	T.										.02	2.95
Winfield	...do								.53										1.20	.80												.11	2.64
Yates Center	Verdigris								.76	.43								T.	1.32	T.	.32											.14	2.97
Oklahoma.																																	
Ada	Canadian																																
Alva	Arkansas																																
Apache	Canadian								.84	T.									1.33	.12	T.	T.											2.29
Arapaho	Washita								.89										1.61	.29													2.79
Ardmore‖	Red								.12	.63										1.25	.78											.15	2.93
Bartlesville	Arkansas								1.10	T.									.92	.53												.26	2.81
Beaver	Canadian																	T.	.71	T.												.05	0.76
Blackburn	Arkansas																		.40	.33													0.73
Buffalo	Cimarron																																
Cache	Red							.72	.10									.50	.20														1.52
Calvin	Canadian									.72											.60											.02	1.34
Chandler‖	...do								.08	.24	T.								T.	T.	1.28											T.	1.60
Chattanooga	Red								.98										T.	.32													1.30
Chickasha	Washita							T.	.57										.27	.44											T.	T.	1.28
Cloud Chief	...do								.73										1.08	.13													1.94
Dacoma	Cimarron								1.35										2.80	.90													5.05
Durant‖	Red									1.06										.03	.51											.09	1.69
Eldorado	...do							.88											.70	.12													1.70
Enid‖	Cimarron								.48	.46									1.90	.50	1.20												4.54
Erick	Red							T.	.48										.95													T.	1.43
Fairland	Arkansas								T.	.27									.30	.12	.42		T.									.97	2.08
Fort Gibson	...do								T.	.32			T.									.60					T.						0.92
Frederick	Red								.67										.80	.08													1.55
Gage	Canadian								T.	T.									2.05														2.05
Guthrie	Cimarron					.15													.48	1.72													2.35
Guymon	Canadian																																
Harrington	Red							.06	.19										1.30														1.55
Hartshorne	Canadian																																
Healdton	Red								.68										.23	.61													1.52
Hennessey	Cimarron								1.12										1.50	1.30						T.						T.	3.92
Hobart	Red							T.	.85										.56	.30													1.71
Holdenville‖	Canadian									.46											.45												0.91
Hooker	...do							.90	.08			T.						T.	.28	.05												.26	1.57
Hurley‖	...do						.60		.80										.35													.25	2.00
Idabel	Red																																
Jefferson	Arkansas								1.25	.13		T.						T.	1.55	1.50												T.	4.43
Kenton	Cimarron						.40	T.	.15			T.						T.	.13	T.												.37	1.05
Kingfisher	...do							.32	.05											2.04						T.						T.	2.41
McAlester	Canadian																			.36						T.						1.04	1.40
McComb	...do								.90											1.10												.50	2.50
Mangum‖	Red							.04	.79										1.78	.56	T.												3.17
Marlow	Washita								.25	.45										.26	.02												0.88

TABLE 2.—*Daily precipitation for October, 1909. District No. 7*—Continued.

Stations.	River basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Oklahoma—Cont'd.																																	
Meeker	Canadian								.35											.15												.60	1.10
Muskogee	Arkansas									.39										.56												1.15	2.10
Mutual	Canadian							.52	.21										2.35	.26													3.34
Neola	Washita								.68										1.14	.26													2.08
Newkirk	Arkansas								.50										.91	.57	.25											.50	2.73
Norman	Canadian							T.	.38										.08	1.10		T.										.24	1.80
Okeene	Cimarron								1.07	.03		T.							2.60	.97													4.67
Oklahoma	Canadian							T.	.18			T.						T.	.47	1.07							T.					.01	1.73
Okmulgee	do								.75											.22												.92	1.89
Pauls Valley	do																																
Pawhuska	Arkansas																																
Perry	do								.16			T.							1.08	1.33												.29	2.86
Ravia	Washita								.75										.15	.88												.27	2.05
Sac & Fox Agy	Canadian																																
Shawnee‖	do								T.	.40									T.	.10	1.13											.08	1.71
Snyder	Red								.75										.47	.20													1.42
Stillwater‖	Cimarron								.02	.14									.84	.06	1.11											T.	2.17
Supply	Canadian								.13										2.38	.03													2.54
Tulsa (1)	Arkansas									.67									.37	.35												.16	1.55
Tulsa (2)‖	do																																
Vinita	do								.20	.10		T.							.50	.40	.40		T.									.80	2.40
Wagoner	do								.79										.01	.58	.02											.70	2.10
Waukomis	Cimarron								1.48	.04		T.							1.44	1.65						.01						T.	4.62
Weatherford‖	Canadian								.63	.54									1.41	.33	.24												3.15
Webbers Falls	Arkansas							.39												.42						.05						.60	1.46
Whiteagle	do								.27	.05									.89	.82	.02											.31	2.36
Woodward	Canadian								.39	T.									2.40	.14	.02												2.95
Missouri.																																	
Belle	Meramec									.22								T.	.15														0.37
Birchtree	Black																				.93										.95		1.88
Cape Girardeau	Mississippi																																
Caruthersville	do									.08				T.	1.05						1.20	.03											2.36
Dean	Neosho								.67	.55							T.		.05	.22	.35			.04		T.						1.83	3.71
Doniphan	Black									.18					T.		T.				.57									T.			0.75
Farmington	Mississippi									.65	.42								.77		.42											.20	2.46
Gano	Meramec								T.	.36									.39		.80			.18								.15	1.88
Goodland	Black									.26								.25		.21				.14								1.08	1.94
Greenville	Mississippi									T.	T.				T.						.75												0.75
Ironton‖	do									T.	.40		T.		*	.05	*	T.	T.	T.	T.	.28	*	.15								*	0.88
Jackson	do									.02			T.		.14				.66		.78											.14	1.14
Joplin	Neosho								1.40										.05			T.										.93	2.38
Koshkonong	Black								.03	.30	T.				T.		T.				.25											.80	1.38
Lamar	Neosho									.76	T.		T.		T.				.42	T.	.56											*	1.74
Marble Hill	Mississippi																				1.15											T.	1.15
Mt. Vernon	Neosho							.02		1.26									.13	.29	.62		.04									1.33	3.69
Neosho	do								.13	.73		.02							.09	.15	.34		.10			T.						1.36	2.92
Oakfield	Meramec									.19	.01	T.			.12		T.	.15	1.75		.69		.27									.05	3.23
Olden	White									.42										.45												1.70	2.57
Sikeston	Mississippi									T.				T.	.15						1.10	.02		T.									1.27
Springfield	White								.60	.83		T.			.01				.04	.20	.22		.09									.30	2.29
Steelville	Meramec									.16					T.				.71		.81											.31	1.99
Willow Springs	White									1.03											.70											1.30	3.03
Kentucky.																																	
Blandville	Mississippi									T.	.06			T.	.17	.04	T.				2.01	.44											2.72
Lynnville	do										.02				.60			.01			.93	.02		T.									1.58
Tennessee.																																	
Arlington‖	Mississippi										T.				.54						T.	.50											1.04
Bolivar‖	do														.48						.32	.21											1.01
Brownsville‖	do										T.				.33	.34					.28	T.											0.95
Covington‖	do														.10						.10	1.00											1.20
Dyersburg‖	do														T.	.55					.25	.45											1.25
Jackson	do													.49	.17						.70												1.36
Kenton	do										.01				.77						.88	.08											1.74
Memphis	do									T.				.09	.30		T.			.01	.37											.26	1.03
Milan‖	do										.06				.08	.22					.20	1.02	T.										1.58
Trenton	do														.97						.42												1.39
Union City	do										.02				.60						.71												1.33
Arkansas.																																	
Alicia	White																																0.00
Amity	Ouachita								T.	2.20				T.			T.			T.	T.											.61	2.81
Arkadelphia (near)	do								1.82								.17				T.											.17	2.16
Arkansas City‖	Mississippi									.70											.90												1.60
Batesville (1)	White									.02	.02							.04			.52	.02											0.62
Batesville (2)‖	do																																
Bee Branch	Arkansas									.70											.40												1.10
Benton	Ouachita								1.96												.12											1.05	3.13
Bentonville	Arkansas								.79	.01							.08			1.07	.06		.01									1.10	3.12
Bergman	White									1.47										T.	.36											.75	2.58
Black Rock‖	do																				.10	.44											0.54
Brinkley‖	do									.19								.95			T.	.14											1.28
Calico Rock‖	do									.08	.12										.54												0.74
Camden‖	Ouachita									.94							.12	.96			.08						.02						2.12
Centerpoint	Red								3.00											.60												.90	4.50
Clarendon‖	White									.45								.09															0.54
Conway	Arkansas									.74	T.						.27			T.	.17											.73	1.91
Corning	White									.03	.01										1.24												1.28
Dardanelle‖	Arkansas									3.00								.23			.15												3.38
Dodd City	White									1.76																						1.16	2.92
Dutton	do									1.62										.02	1.38			T.								.98	4.00
Earl	St. Francis														.94																		0.94
Eldorado‖	Ouachita									1.24					T.		.32	T.			T.						.03						1.59
England‖	Arkansas									.32							T.	T.			T.												0.32
Eureka Springs	White								1.95											.43			.45									.50	3.33
Fayetteville	do									1.20							.16			.48	1.28		.03									.48	3.63
Fort Smith	Arkansas								1.80	.01							.50			1.11	T.					.01						.40	3.83
Fulton‖	Red									1.10							.50																1.60
Hardy	White									.01							T.			T.	.16											.53	0.70
Helena (1) ‖	Mississippi									T.								.10			.52												0.62
Helena (2) ‖	do																																
Hot Springs	Ouachita								2.00												.17											.73	2.90
Huttig	do									1.52							.01				.15												1.68
Jonesboro	White																				0.31												0.31
Junction	Ouachita								.86										T.								T.					.54	1.40
Lacrosse	White																																

TABLE 2.—*Daily precipitation for October, 1909. District No. 7*—Continued.

Stations.	River basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Arkansas—Cont'd.																																	
Lake Farm	Arkansas								1.10																								1.10
Lewisville	Red								T.	1.70				T.			.13				.04						.25					1.05	3.17
Little Rock	Arkansas								.18	.12							.07			.08	.11											.28	0.84
Lutherville	...do									2.96											.30											1.42	4.68
McNeil	Ouachita								.47								.82															1.52	2.81
Malvern‖	Ouachita									1.43											.20												1.63
Mammoth Spring	White								.01	.01											.36											.78	1.16
Marked Tree‖	St Francis									T.										T.													T.
Mena	Ouachita								.21	1.78										.35	.05											1.09	3.48
Mossville	White									2.10							T.			T.	.50											1.71	4.31
Mount Nebo	Arkansas								2.50								.16				.18											2.00	4.84
Newport (1)‖	White									.03	.02							.03			.37	.38											0.83
Newport (2)‖	...do																																
Ozark	Arkansas									1.47		T.					T.			.15	.68											1.82	4.12
Pine Bluff‖	...do									.90																							0.90
Pocahontas	White									.05											.46												0.51
Pond	Arkansas									1.00		T.					.20			.55	.49			.01								1.95	4.20
Portland‖	Ouachita									1.30											T.												1.30
Prescott‖	...do									2.72					T.		.68	.15			.01												3.56
Princeton	...do																																
Rogers	Arkansas								.26	1.02							T.			.50	1.19			T.								.28	3.25
Russellville‖	...do																																
Spielerville	...do									2.35							.09			.06	.32											.75	3.57
Springbank‖	Red									2.06										.22	.14												2.42
Stuggart	Arkansas									.06										T.	T.												0.66
Texarkana‖	Red									3.35										T.	.15						.25						3.75
Warren‖	Ouachita									1.98								.10															2.08
Whitecliffe‖	Red									1.80				T.			.35			.03	.52												2.70
Wiggs	Ouachita								T.	2.68	T.		T.	T.						T.	.02											.81	3.51
Wynne‖	St. Francis									.02					.25			T.			.15	.18											0.60
Mississippi.																																	
Anguilla	Yazoo									.88											1.83												2.71
Austin	...do																				1.23												1.23
Batesville‖	...do																				.16	.08											0.24
Byhalia	...do														.23						.26	.10											0.59
Canton	Big Black									.05											.01												0.06
Clarksdale	Yazoo									.30											.65	T.											0.95
Coffeeville	...do																				.32												0.32
Corinth‖	Mississippi										.32	.10			1.58	.32					.07	.48											2.87
Crenshaw	Yazoo									T.	.03			T.			.03				1.07	.02											1.15
Denmark	...do														.40						.70												1.10
Duck Hill	...do								T.	T.				T.							.30												0.30
Edwards	Big Black									1.30										.05													1.35
Enid	Yazoo																																
Fayette	Mississippi									1.32																							1.32
Greenville‖	Yazoo									.92											.62	.01											1.55
Greenwood‖	...do									.04	.34										.10	1.04											1.52
Grenada	...do											T.										T.							T.				T.
Hernando‖	...do									1.00	.05				.05						.95	.15											1.20
Hickory Flat	...do																				.70												0.70
Holly Springs‖	...do										.03				.24						.15	.19											0.61
Kosciusko‖	Big Black										.05										.02	.30											0.37
Lake Comorant	Yazoo														.22						.42												0.64
Lula	...do																				1.09												1.09
Malone	...do																				T.												T.
Marks	...do																				.91												0.91
Natchez‖	Mississippi									1.53	.29																						1.82
New Albany	Yazoo										.26					.24					.70												1.20
Pontotoc	...do								.12	.20	.30				T.						.40												1.02
Port Gibson‖	Mississippi									1.73											T.												1.73
Ripley	Yazoo										T.				.10					.10													0.20
Rosedale	...do									.50											.61												1.11
Senatobia	...do														T.		.02				.86												0.88
Shoccoe	Big Black																																0.00
Suffolk	Mississippi									1.33										T.													1.33
Swan Lake‖	Yazoo									T.		T.		.30																			0.30
Tchula	...do									.90					T.						.50												1.40
University	...do																																
Utica	Mississippi									.65										.38	T.												1.03
Vicksburg	...do									1.82										.07													1.89
Water Valley	Yazoo																			.10	.30												0.40
Woodville	...do									2.29																							2.29
Yazoo City‖	...do									.56	.20										.04	T.											0.80
Louisiana.																																	
Abbeville	Coast									1.75	.59												.01										2.35
Alexandria‖	Red									2.50	.08																						2.58
Amite‖	Coast									2.00											1.00	T.											3.00
Baton Rouge‖	...do									1.10	.30																						1.40
Burnside	...do									.97										.85	.12												1.94
Burrwood	...do									T.										T.	T.		T.	.10									0.10
Calhoun	Ouachita									1.70										T.												.19	1.89
Cameron	Coast								.35											2.00													2.35
Cheneyville‖	Red									1.29	.13																						1.42
Clinton‖	Coast									.80	.57					T.					.02			T.									1.39
Collinston	Ouachita								1.15																								1.15
Covington‖	Coast										2.01										.47												2.48
Dodson	Red									2.48																							2.48
Donaldsonville‖	Coast										1.10										.30												1.40
Farmerville‖	Ouachita								1.76																								1.76
Ferriday	...do									2.85																							2.85
Franklin‖	Coast									.82	.95									T.	.21				T.								1.98
Grand Cane‖	Red									1.60										.20	2.30												4.10
Grand Coteau	Coast									2.30									.45													T.	2.75
Hammond	...do									.52	.15									.46													1.13
Houma‖	...do																																
Jennings‖	...do									1.58	.22										.02												1.82
Lafayette‖	...do									1.15	.64									.34				.13									2.26
Lake Charles‖	...do									2.37											.97												3.34
Lakeside	...do									2.07																							2.07
Lawrence‖	...do										.42										2.25	.11											2.78
Liberty Hill	Red									1.43																						.06	1.49
Logansport‖	Sabine											1.50								.17		.79											2.46
Melville‖	Red									1.45	.53					T.																	1.98
Minden‖	...do									1.60																							1.60

TABLE 2.—*Daily precipitation for October, 1909. District No. 7*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Louisiana—Cont'd.																																	
Monroe‖	Ouachita									1.60						T.					T.	T.											1.60
Morgan City‖	Coast											.98									.28												1.26
Newellton	Mississippi								.16	1.65											T.												1.81
New Iberia	Coast									2.00										.50			.20										2.70
New Orleans (1)	do									.94	.18									2.21	.29	.01											3.63
New Orleans (2)	do							.09		.51	.60									1.80	.38	.32											3.70
New Orleans (3)	Coast									.71	1.91									2.48	.20												3.58
New Orleans (4)	do							.08		.91	.14									1.76	.67	.01											3.57
New Orleans (5)	do									1.21	.11									3.41	.63												5.36
New Orleans (6)	do									1.02	.22									2.24	.22												3.70
New Orleans (7)	do									.65	.13									2.30	.75												3.83
New Orleans (8)	do									.91	.24									1.90	.33												3.38
Opelousas‖	do									1.70	.50																						2.20
Plain Dealing	Ouachita								.03	1.07											.25												1.35
Rayne‖	Coast									1.30	.60									.10													2.00
Reserve‖	do										.42																						0.42
Robeline‖	Red									2.00											.05												2.05
Ruston	Ouachita																																
Schriever‖	Coast								T.		.76										.50			.18									1.44
Shreveport	Red								.98	.12										.16												.01	1.27
Simmesport‖	Red									1.04	.30													.06									1.40
Southern Univ. Farm.	Coast							.30		.60	.45									1.30	.30	.55											3.50
St. Francisville‖	Mississippi									T.	1.50																						1.50
Sugartown	Red																																
Tallulah	Mississippi									1.33										1.00													2.33

TABLE 3.—*Maximum and minimum temperatures at selected stations, October, 1909. District No. 7, Lower Mississippi Valley.*

Date.	Colorado.						New Mexico.				Texas.				Kansas.										Oklahoma.			
	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.§§		Dodge City.		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.	Mid.	Max.	Min.	Max.	Min.	Max.	Min.
1...	85	46	63	34	80	46	85	56	79	39	82	57	95	52	87	51	89	49	91	52	87	50	88	56	95	52	94	50
2...	90	44	65	31	82	44	81	51	78	35	83	54	95	54	88	57	89	55	90	52	89	55	87	59	94	55	94	52
3...	89	52	62	32	79	48	83	50	76	41	82	55	94	57	86	55	90	58	91	53	88	52	88	58	93	55	94	52
4...	89	60	58	32	80	49	79	51	73	37	80	52	94	58	86	59	89	47	90	51	86	66	89	61	93	56	93	51
5...	82	45	56	35	75	52	77	48	73	39	79	49	94	58	83	56	88	49	90	52	85	47	89	61	95	55	93	50
6...	73	50	46	31	72	52	71	48	61	39	78	52	95	59	81	53	87	51	89	52	83	45	87	58	95	55	94	52
7...	66	36	42	26	65	43	68	46	63	37	76	55	93	61	76	57	81	59	87	61	76	56	84	62	92	58	84	58
8...	56	35	29	12	47	36	60	41	48	34	57	37	74	62	60	40	75	45	79	56	64	38	66	44	73	57	79	62
9...	61	40	35	14	57	28	59	35	53	23	56	35	68	53	48	36	45	41	58	43	54	36	48	43	62	48	62	49
10...	60	37	44	27	69	36	74	39	66	30	71	42	76	39	69	35	64	40	54	43	71	39	62	43	73	40	65	45
11...	60	33	42	33	47	35	65	40	61	30	66	33	75	42	53	32	58	38	50	34	64	34	56	35	70	46	59	45
12...	58	35	50	25	48	35	58	37	62	34	58	29	64	42	58	26	54	23	50	26	56	36	51	28	63	39	55	28
13...	78	35	53	27	80	35	84	40	76	30	84	40	84	43	75	39	66	34	70	35	82	34	70	38	83	41	65	40
14...	77	43	55	28	81	45	86	54	78	43	79	50	93	51	77	46	75	38	75	41	80	46	76	45	92	53	83	42
15...	72	36	60	26	71	37	79	45	75	37	83	47	86	56	72	45	74	38	69	39	83	41	71	47	85	52	76	41
16...	64	35	60	29	64	36	83	46	80	40	88	45	87	54	72	42	74	44	75	41	80	40	75	50	87	59	77	42
17...	68	34	54	28	60	36	75	50	67	38	70	47	88	61	56	41	67	44	81	47	68	40	76	47	84	67	86	62
18...	62	36	56	24	53	34	59	39	51	38	47	36	86	61	48	39	54	41	48	43	52	38	49	44	80	63	62	49
19...	54	33	54	23	53	26	49	38	56	34	46	36	65	61	43	38	49	39	59	44	44	37	50	41	58	52	59	42
20...	79	32	48	29	77	30	75	42	74	32	75	40	78	53	55	42	60	44	63	51	68	35	59	47	74	48	69	50
21...	74	37	55	23	69	31	69	46	77	35	74	45	87	52	74	36	77	37	77	41	76	38	74	42	91	56	83	46
22...	70	34	49	24	68	35	64	37	66	35	71	48	87	61	71	40	72	50	80	46	73	47	72	43	85	57	86	57
23...	69	28	56	23	65	27	78	41	63	28	64	38	69	49	64	33	62	31	77	32	69	32	58	40	63	44	60	42
24...	83	28	53	30	77	30	66	37	76	24	74	38	70	49	77	38	72	37	60	28	79	35	62	34	66	36	65	31
25...	68	28	54	19	67	36	67	40	66	24	64	43	.....	49	63	41	65	44	63	40	67	39	62	45	69	42	67	42
26...	62	33	51	23	58	37	68	47	67	34	62	41	.....	.....	61	36	65	34	69	34	64	33	66	41	77	39	75	38
27...	71	29	56	24	66	28	72	37	71	26	68	37	82	.....	69	30	71	31	67	36	69	29	70	42	81	46	77	38
28...	80	27	59	24	76	28	74	40	76	30	76	43	83	54	73	41	74	33	74	39	72	35	73	46	83	51	79	40
29...	84	30	54	28	81	36	79	43	74	23	82	48	82	52	77	55	78	55	76	54	79	43	75	58	79	53	80	52
30...	79	32	48	27	72	38	74	45	69	29	81	50	81	52	85	49	87	55	81	58	85	45	80	60	80	59	83	53
31...	64	40	38	12	58	33	67	42	58	32	62	47	81	53	66	44	78	51	69	52	72	42	75	49	80	60	73	68
Mns	71.8	36.9	51.8	25.9	67.6	36.8	71.9	43.6	68.2	33.2	71.5	44.2	82.9[b]	53.4[b]	69.5	43.0	71.9	43.1	71.7	44.4	73.1	41.4	70.6	47.3	80.2	51.4	76.5	47.4

Date.	Oklahoma.														Missouri.													
	Enid.§§		McAlester.		Mangum.§§		Muskogee.		Oklahoma.		Weatherford.§§		Woodward.		Carutherswille.		Ironton.§§		Lamar.§§		Olden.		Springfield.		Lynnville, Ky.		Jackson, Tenn.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	95	48	.....	.....	80	49	93	52	90	57	90	61	88	48	79	45	76	38	94	54	79	48	87	56	75	43	83	44
2...	94	50	.....	.....	89	48	95	54	89	60	89	59	88	57	83	43	83	41	94	50	87	50	88	59	81	42	84	41
3...	92	51	.....	.....	90	46	94	58	88	59	91	57	88	51	92	47	90	51	95	56	90	48	90	62	86	49	90	45
4...	95	50	.....	.....	90	48	95	57	90	60	91	59	88	53	95	50	89	48	95	53	91	50	89	62	88	57	94	50
5...	93	51	.....	.....	89	48	95	53	89	59	90	58	87	50	83	57	82	47	95	50	90	49	89	59	82	54	94	53
6...	93	48	.....	.....	89	50	95	56	89	59	89	54	85	65	85	52	80	45	93	55	81	69	88	60	79	46	88	50
7...	88	49	.....	.....	85	51	92	63	84	62	85	71	82	58	84	47	80	41	92	58	81	44	85	62	84	42	87	44
8...	70	59	.....	.....	65	58	80	56	77	48	69	57	71	44	86	51	82	44	84	60	79	51	82	58	84	52	84	51
9...	50	45	.....	.....	58	40	61	51	52	43	52	41	52	40	76	65	70	61	58	53	70	69	61	46	75	62	82	62
10...	67	35	.....	.....	71	38	71	41	69	36	72	40	71	32	76	49	59	41	58	44	63	44	54	42	71	59	75	55
11...	60	40	69	44	71	38	64	41	61	42	63	49	59	39	71	44	59	42	53	40	60	39	52	34	66	49	71	45
12...	56	35	59	40	59	37	56	32	59	39	62	40	60	42	57	30	48	30	52	25	50	28	44	27	59	32	69	34
13...	67	35	80	36	76	37	76	34	75	40	81	39	83	41	70	35	61	21	70	26	64	29	64	32	65	26	66	27
14...	84	45	92	57	84	41	86	49	84	50	77	56	83	45	89	42	58	35	80	40	81	42	75	46	64	44	74	49
15...	86	45	84	49	81	49	80	45	79	47	81	48	80	37	74	36	66	31	72	39	68	37	65	44	65	38	74	38
16...	85	45	85	55	86	41	81	47	86	57	89	49	89	44	80	34	73	26	80	38	74	40	68	41	73	38	78	35
17...	88	47	87	69	90	50	87	61	82	57	85	67	78	59	85	56	83	47	83	45	82	50	79	52	81	53	83	52
18...	49	47	83	61	53	53	81	55	57	47	72	41	60	41	80	52	56	52	76	34	71	49	68	44	81	51	88	49
19...	48	44	70	51	57	45	60	47	49	46	49	43	47	40	66	49	66	40	62	45	61	40	62	43	64	49	88	51
20...	61	44	76	50	.....	43	73	53	71	43	70	43	61	40	70	56	65	45	65	45	68	50	61	50	66	55	73	57
21...	75	41	87	57	75	45	85	53	79	46	78	45	74	35	85	62	78	44	81	45	79	50	78	51	79	63	82	65
22...	79	42	88	58	80	55	88	60	82	53	82	59	77	53	86	55	83	40	83	46	82	53	79	55	82	57	84	54
23...	68	39	80	44	68	45	78	41	60	40	65	40	66	36	71	48	48	44	57	43	75	45	55	41	73	47	82	50
24...	67	38	69	35	70	42	64	32	66	36	69	41	72	40	60	38	58	38	61	33	58	30	56	36	55	35	58	43
25...	68	36	73	48	65	40	73	43	62	42	67	49	66	45	68	30	67	32	68	42	67	32	64	39	64	30	67	30
26...	75	35	79	40	70	40	74	39	74	42	78	38	67	33	78	35	72	36	73	40	71	40	66	45	71	39	75	34
27...	75	38	84	43	75	40	78	40	76	43	77	43	71	34	70	47	63	38	71	38	68	39	65	41	65	44	73	45
28...	89	41	85	50	77	45	78	47	79	53	79	41	77	35	70	34	58	25	76	40	67	36	68	42	64	32	71	33
29...	79	48	80	57	79	45	80	52	77	55	78	58	83	56	75	38	71	33	79	41	72	37	74	49	69	33	73	32
30...	80	53	78	60	80	54	82	55	80	58	80	62	78	55	81	37	76	39	82	44	77	43	76	52	75	37	78	35
31...	63	51	74	64	75	47	72	63	76	52	82	66	74	50	83	50	73	42	76	55	71	52	66	57	77	52	78	44
Mns	75.5	44.4	79.1[i]	50.9[i]	75.9[a]	45.4	79.6	49.4	75.2	49.4	76.8	50.8	74.4	44.5	77.4	45.6	70.1	39.9	76.1	44.4	73.5	44.6	70.9	48.0	73.0	45.0	78.9	45.1

TABLE 3.—*Maximum and minimum temperatures at selected stations, October, 1909. District No. 7*—Continued.

Date.	Tennessee.				Arkansas.																		Mississippi.					
	Memphis.		Union City.		Bentonville.		Corning.		Dardanelle.§§		Eldorado.§§		Fort Smith.		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...	75	56	81	43	90	56	79	46	89	46	88	50	91	57	80	58	87	52	89	50	79	51	84	49	76	48	87	49
2...	80	57	84	42	90	52	82	45	92	52	87	53	92	58	81	60	88	52	90	55	84	50	85	50	79	44	86	53
3...	82	57	89	48	91	54	88	50	96	50	87	52	91	60	84	58	90	53	88	56	85	52	87	48	84	46	87	50
4...	86	61	90	56	90	51	93	51	96	50	90	52	92	56	89	60	92	50	89	53	90	52	92	51	88	51	89	53
5...	86	65	86	55	89	50	84	52	96	50	92	53	92	58	90	63	94	52	89	55	91	53	93	53	90	53	91	54
6...	82	62	85	47	90	51	80	52	95	52	92	56	92	57	83	63	90	55	92	57	83	55	89	55	83	54	90	57
7...	84	59	86	42	88	61	83	46	94	55	90	55	89	64	85	63	90	57	90	60	85	58	87	54	82	50	89	59
8...	81	65	84	48	80	57	84	49	84	58	82	58	82	58	76	64	85	60	81	63	82	59	86	56	82	54	88	60
9...	73	62	76	62	56	46	77	67	65	59	65	61	58	49	71	56	73	60	62	56	77	64	.....	63	77	60	75	65
10...	67	52	72	53	61	42	72	48	72	42	72	45	66	43	68	48	72	44	74	43	69	41	.....	49	68	55	73	52
11...	64	48	67	47	58	35	67	45	68	44	74	49	63	43	65	48	75	45	71	46	68	41	72	49	67	45	75	50
12...	54	40	59	33	50	28	58	31	60	39	63	46	53	37	52	43	60	42	60	45	57	31	57	41	56	37	61	46
13...	63	40	67	25	67	34	65	26	71	34	78	43	74	36	64	40	70	34	79	46	64	30	68	31	65	30	72	37
14...	78	55	63	46	80	48	82	40	88	35	87	48	85	50	84	54	87	60	86	50	83	33	80	.....	76	34	86	43
15...	70	51	69	37	72	41	73	32	82	44	82	49	79	47	76	58	83	45	80	59	73	41	79	44	81	46	81	50
16...	71	50	75	35	72	44	76	33	68	44	84	50	69	50	64	54	80	53	82	59	73	38	77	42	74	40	82	49
17...	79	59	82	56	81	57	84	57	86	42	85	51	85	55	80	56	85	56	85	61	81	43	85	54	81	54	85	52
18...	79	54	81	53	68	47	83	57	85	55	82	57	81	60	81	54	85	55	80	60	84	55	80	50	82	52	84	50
19...	66	52	68	49	59	47	64	47	64	52	67	57	60	52	60	51	80	54	68	58	66	50	75	50	72	52	74	52
20...	74	61	69	55	67	53	69	54	75	52	80	56	71	55	72	55	80	62	76	55	76	50	80	53	69	53	81	56
21...	77	64	83	63	79	51	82	55	85	55	85	57	82	57	82	61	88	56	84	62	80	61	84	64	78	62	84	62
22...	78	64	83	55	82	52	82	52	86	55	86	58	84	59	81	61	88	58	85	62	83	57	85	55	79	54	84	56
23...	69	48	74	48	52	42	77	50	65	38	69	60	66	45	73	48	74	56	67	57	62	54	76	55	63	58	68	56
24...	55	42	59	43	60	36	60	40	66	39	64	38	61	39	61	43	72	38	61	41	57	40	63	42	53	40	62	42
25...	63	41	66	29	66	42	67	31	70	34	69	36	70	41	66	43	75	35	68	42	65	38	68	34	62	31	69	35
26...	70	49	74	35	69	40	74	35	75	35	76	38	71	45	73	48	82	40	71	42	73	39	77	35	71	36	78	38
27...	67	51	76	36	72	40	70	45	75	40	78	43	72	45	71	52	83	43	74	46	70	42	73	41	75	41	77	45
28...	68	46	75	33	75	41	69	33	76	40	78	43	75	49	71	47	86	44	75	47	69	42	75	39	69	36	77	43
29...	72	47	78	32	73	52	75	32	80	41	78	43	76	52	74	48	86	40	76	51	74	43	77	37	75	36	80	41
30...	75	50	79	33	76	53	78	35	82	42	80	44	77	52	77	50	86	42	79	52	76	44	81	37	77	36	82	41
31...	78	59	80	47	68	54	80	53	68	42	81	50	71	60	76	60	76	60	75	54	78	47	83	37	78	40	83	43
Mns	73.1	53.8	76.1	44.7	73.3	47.0	76.0	44.8	79.2	45.7	79.7	50.0	76.5	51.3	74.5	53.8	82.0	50.1	78.3	53.0	75.4	46.9	79.2b	47.3a	74.6	46.1	80.0	49.6

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.	Max.	Min.
1.....	84	49	88	53	84	61	86	45	85	57	90	49	87	52	89	47	81	52	84	65	80	45	89	55	87	56
2.....	83	47	85	56	82	63	88	49	87	61	89	53	87	54	90	54	87	54	84	67	84	49	91	54	89	59
3.....	86	47	85	55	86	58	88	49	89	58	90	51	88	55	92	56	86	52	86	66	89	45	93	54	87	57
4.....	90	50	93	58	87	62	93	50	92	58	93	51	92	54	94	52	89	55	89	69	92	46	95	52	88	56
5.....	91	50	92	59	87	63	95	51	96	60	95	54	93	58	96	53	92	57	91	71	90	48	98	57	90	62
6.....	90	51	90	60	90	65	93	50	92	63	96	57	92	60	95	57	90	58	90	72	94	51	97	58	90	62
7.....	80	53	95	62	91	67	92	55	93	60	91	57	92	58	93	56	91	58	88	69	92	53	94	57	88	64
8.....	85	56	90	66	85	65	97	55	85	66	88	59	87	63	89	54	83	59	87	71	81	53	92	62	79	61
9.....	73	61	74	64	72	61	73	64	80	64	78	68	76	64	82	56	75	64	80	69	72	61	87	68	63	55
10.....	73	57	74	55	70	55	75	50	76	60	79	62	74	56	80	50	74	49	74	66	76	42	80	49	74	46
11.....	73	45	74	52	71	52	77	45	78	53	80	47	76	47	83	49	78	48	75	60	79	41	81	45	75	49
12.....	61	42	66	49	62	47	69	46	66	52	76	47	74	50	78	49	78	47	70	60	68	41	83	48	65	47
13.....	66	32	79	48	74	47	82	47	76	44	77	47	80	49	84	49	68	50	77	56	83	44	86	48	80	51
14.....	83	36	86	64	82	63	88	52	84	61	87	48	86	52	85	49	87	45	85	68	89	51	89	54	87	66
15.....	77	48	84	63	80	65	85	64	88	67	90	61	88	65	90	50	87	56	84	70	85	60	95	61	82	62
16.....	78	41	88	57	82	56	86	54	82	54	90	49	85	56	88	50	89	53	79	63	90	51	91	51	82	63
17.....	84	42	88	57	84	57	86	51	79	53	85	49	86	58	87	50	88	54	82	65	88	54	90	51	85	60
18.....	82	42	88	58	82	60	85	60	82	52	84	50	86	60	86	49	85	55	83	67	83	53	91	52	80	60
19.....	81	46	78	59	77	62	78	60	78	60	81	57	77	62	80	58	74	56	80	70	78	55	85	64	74	64
20.....	79	55	86	64	81	66	82	64	87	65	83	65	85	64	87	60	83	62	84	70	80	64	89	62	79	63
21.....	79	65	83	66	80	68	83	60	81	67	84	65	83	64	88	60	85	61	77	68	87	63	81	64	84	63
22.....	84	53	90	62	84	63	78	57	87	63	87	66	86	61	87	60	89	58	81	68	87	55	89	61	84	62
23.....	71	54	77	63	70	51	67	57	84	67	87	62	83	63	85	60	74	58	85	60	75	55	89	64	73	53
24.....	59	39	64	44	61	43	65	43	65	47	68	47	65	46	76	46	75	42	63	51	74	35	89	45	64	44
25.....	62	31	73	42	66	41	72	34	74	38	72	38	72	38	77	39	73	43	66	52	74	31	79	40	69	43
26.....	74	32	81	42	75	51	80	34	84	50	79	39	83	41	84	39	79	39	78	59	81	33	87	44	76	54
27.....	72	45	82	52	76	53	80	43	83	57	83	49	81	52	86	40	83	45	78	64	83	37	86	50	78	49
28.....	73	44	80	53	77	52	81	43	81	55	83	47	81	48	83	50	83	45	78	62	80	39	86	48	79	52
29.....	72	41	80	54	75	53	81	44	80	57	81	47	82	49	86	49	82	47	72	61	82	42	80	52	78	53
30.....	78	36	85	54	80	52	84	50	82	56	84	46	83	55	87	50	89	45	78	59	84	44	89	55	79	54
31.....	78	40	87	55	82	61	82	50	84	58	83	46	82	57	80	50	83	46	80	65	80	45	88	59	78	61
Means.....	77.4	46.1	82.7	56.3	78.5	57.5	82.3	50.8	82.6	57.5	84.3	52.7	83.0	55.2	86.0	51.3	82.6	52.0	80.3	64.6	82.6	47.9	88.4	54.7	79.5	56.5