

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT No. 9, COLORADO VALLEY

FREDERICK H. BRANDENBURG
DISTRICT EDITOR

REPORT FOR JULY, 1912

Prepared under direction of WILLIS L. MOORE, Chief U. S. Weather Bureau



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CLIMATOLOGICAL DATA FOR JULY, 1912.

DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

As in June, stagnant and ill-defined low pressure prevailed throughout the Colorado basin during the greater part of July. While normally this is the prevailing distribution of pressure during the summer months, it is not usual for it to be attended by such low mean temperatures and widespread and copious precipitation as characterized the month. Freezing temperatures occurred during the first decade at a number of stations in western Colorado, and also at one or more points in other parts of the district. The persistency of precipitation was detrimental to haymaking, and injuriously affected the strawberry crop of Routt County, Colo. On the other hand, the waterholes have been filled and a luxuriant growth of grass now covers most of the ranges. Heavy rainfalls occurred in Arizona and New Mexico, but beyond filling the arroyos and temporarily delaying traffic no damage resulted. Wind storms were frequent in the southern half of the district. During the night of the 17th a violent electrical storm occurred in the Salt River Valley, Ariz. The section director reports that in localities the winds reached a velocity never before known in that State, particularly near Mesa and Chandler, where they approached the destructiveness of a tornado, and where two fatalities occurred by the wrecking of buildings. The damage caused by the storm in these localities is estimated at \$300,000.

TEMPERATURE.

The mean of the 145 stations reporting was 70.9°, or 3.3° below the normal. The mean for July, 1911, was 72.3°. The highest monthly mean was 90.6° at Sentinel, Ariz., and the lowest 45.7° at Corona, Colo. The first decade was cold; on the 3d, 4th, and 5th the average daily deficiency was generally more than 10°, and as much as 15° or 20° on the 4th in the central part of the district. The second decade was warmer, but not more than two days were warmer than the normal. The last decade was cooler than the normal, especially in central and northern Arizona. The highest temperatures occurred principally on the 10th, 11th, and 17th, while the lowest occurred generally on the 4th and 5th. Thin ice formed in northern Arizona at an altitude of 6,500 feet on these dates and the lowest temperature ever recorded in July occurred in central and northern Arizona.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	De- part- ure from nor- mal.	High- est.	Station.	Low- est.	Station.
Western Wyoming.....	62.4	.....	92	Green River..	31	Pinedale.
Western Colorado.....	62.1	-2.6	101	Rangely.....	17	Chromo.
Eastern Utah.....	68.6	-2.9	105	Springdale (near).	24	Strawberry Tun- nel (east).
Western New Mexico.....	70.7	-2.3	105	Cambray.....	29	Berger's ranch.
Arizona.....	77.2	-4.0	114	At 3 stations..	26	Flagstaff No. 1.
Southeastern Nevada.....	75.6	.....	113	Logan.....	40	Caliente.

PRECIPITATION.

The average for the 201 stations reporting was 2.65 inches, or 1.13 inches above the normal. The average for July, 1911, was 3.18 inches. The first 5 days were showery in western Colorado and eastern Utah; the rest of the decade was generally fair. On the 11th well-distributed rains set in over the central and southern parts of the district, and rain fell daily at the majority of stations till the close of the month. Monthly amounts in excess of 4 inches occurred at 8 stations in western Colorado, 6 in western New Mexico, and 28 in Arizona. The greatest monthly amount was 9.16 inches at Lakeside, Ariz., and the least amount, a trace, at Aztec, Ariz.

The average number of days with 0.01 inch or more precipitation was 6 in western Wyoming; 12 in western Colorado; 8 in eastern Utah; 9 in western New Mexico; 9 in Arizona; and 4 in southeastern Nevada. For the district as a whole the average was 9 days.

The average precipitation and departures from the normal on the different watersheds are given in the following table:

Watershed.

Green.		Grand.		San Juan.		Little Colorado.		Gila.		Mimbres.		Colorado proper.	
Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.
1.10	+0.66	2.41	+0.51	2.20	+0.47	3.05	+2.07	3.51	+1.54	3.64	+0.82	1.47	+0.53

MISCELLANEOUS.

The average amount of sunshine reported was as follows: Grand Junction, 70, -7 per cent; Durango, 79, +2 per cent; Phoenix, 76, -8 per cent; and Yuma, 90, +2 per cent.

The relative humidity was greater than usual. The following are the values: Grand Junction, 44; Durango, 56; Phoenix, 44; and Yuma, 51 per cent.

RIVERS.

In the upper tributaries of the Colorado there was a general fall in the stages. In the Green the fall was regular; but in the Grand a moderate rise began on the 17th, and in the San Juan a similar rise occurred on the 22d. At Topock, on the trunk stream, a sharp rise was in progress at the beginning of the month, the highest stage being reached on the 6th. A steady decline followed until the 28th.

TABLE 1.—Climatological data for July, 1912. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	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, unmelting.	Number of rainy days, with total inch or more.	Number of clear days.	Number of partly cloudy days.		
Wyoming.																			
Battle Mountain.....	Carbon.....	7,300																U. S. Forest Service.	
Daniel.....	Uinta.....	6,740	13	58.5	+ 2.1	82	26†	31	10	40	1.10	+ 0.32	0.65	0	2	10	20	J. M. Van Dervort.	
Eden.....	Sweetwater.....	6,577	3	62.5		87*	28	35*	5†	46*	0.72		0.27	0	8*	18*	7*	Eden Valley L. & I. Co.	
Green River.....	do.....	6,083	7	66.0		92	29	37	4	45	0.59		0.36	0	3	15	10	Geo. H. Maxon.	
Pinedale.....	Fremont.....	7,167	6	58.8		84	24	31	14	47	1.21		0.65	0	6			U. S. Forest Service.	
Rambler.....	Carbon.....	9,232	1															Do.	
Willow Creek Cabin.....	Fremont.....	7,500	3															Do.	
Big Piney.....	Uinta.....																	Ira Dodge.	
Colorado.																			
Ashcroft.....	Pitkin.....	9,483	10	53.8	- 1.0	79	10†	30	6	45	2.59	+ 0.59	0.51	0	18			Dan McArthur.	
Breckenridge.....	Summit.....	9,536	23	52.0	- 1.3	74	11†	28	7	44			0.51	0	10	17	9	Mrs. J. G. Thompson.	
Buford.....	Rio Blanca.....	8,900	1										2.10		0	10	17	Mrs. H. Genier.	
Cascade.....	San Juan.....	8,900	6	67.6		89	17	40	5	37	3.73		0.75	T.	22	11	7	San Juan W. & P. Co.	
Ceclarege.....	do.....	6,175	6	67.6	- 2.3	89	17	40	5	37	1.42	+ 0.62	0.47	0	9	11	15	Harry A. Cobbet.	
Chromo.....	Archuleta.....	7,500	6	60.0		86	11	17	8	64	1.40		0.30	0	8	10	15	Lawrence Nolan.	
Cochetopa.....	Saguache.....	9,088	3															Bessie McDonough.	
Collbran.....	Mesa.....	6,000	19	65.9	- 2.6	87	17	39	5	35	2.00	+ 0.84	0.52	0	14	13	15	A. A. Wood.	
Columbine.....	Routt.....	9,766	2										4.67	0	13	12	17	Mrs. M. A. Caron.	
Columbine Ranch.....	Delta.....	6,925	2										1.65	0	13	12	17	George W. Wade.	
Corona.....	Grand.....	11,660	5	45.7		60	17†	26	5	26	4.54		1.08	3.0	9			U. S. Weather Bureau.	
Cortez.....	Montezuma.....	6,100	1															W. G. Lucas.	
Craig.....	Moffat.....		2															Joseph F. Haubrich.	
Crawford (near).....	Montrose.....	6,600	2	64.8		84	10	38	5	32	2.54		0.73	0	12	18	9	C. W. Roe.	
Crested Butte.....	Gunnison.....	8,867	2	53.2		77	17	32	18†	44	2.84		0.62	0	11	8	4	Charles L. Ross.	
De Beque.....	Mesa.....	4,935	2	72.8*		95*	10	44*	6	46*				0	7*	10*	3*	H. M. Quigley.	
Delta.....	Delta.....	4,905	22	71.4	- 2.7	100	10	40	5	54	1.09	+ 0.23	0.46	0	7	20	10	E. M. Gettis.	
Dillon.....	Summit.....	8,800	2	53.0		75	27†	33	2†	40	5.64		0.80	0	16	3	13	Harry T. Hamilton.	
Durango.....	La Plata.....	6,534	17	65.6	- 3.1	88	11	36	5	43	2.29	+ 0.74	1.71	0	14	8	19	U. S. Weather Bureau.	
Eureka.....	San Juan.....	10,000	5										0.20	0	11	9	12	W. G. Lucas.	
Fraser.....	Grand.....	8,500	3	51.0		74	17	27	6†	44	3.79		0.71	T.	15	3	7	Joseph F. Haubrich.	
Fruita.....	Mesa.....	4,515	13	71.8	- 3.3	96	10†	40	5	52	1.23	+ 0.35	0.54	0	6	10	17	C. W. Roe.	
Gladstone.....	do.....	7,030	1										1.57	0	12	0	23	Charles L. Ross.	
Glenwood Park.....	San Juan.....	10,400	1										3.61	0	23	0	15	A. F. Tarrill.	
Glenwood Springs (near).....	Garfield.....	5,823	14	63.0	- 4.6	88	17	36	4	43	2.63	+ 1.35	0.60	0	11	20	6	San Juan W. & P. Co.	
Grand Junction.....	Mesa.....	4,608	21	74.7	- 4.5	95	17	49	5	38	0.78	+ 0.28	0.30	0	9	10	14	E. A. O'Neil.	
Grandlake.....	Grand.....	8,153	4										4.42	0	10	10	6	U. S. Weather Bureau.	
Grand Valley.....	Garfield.....	5,089	20	70.3	- 2.4	97	17	41	9	51	0.80	- 0.13	0.32	0	7	5	21	Mrs. Belle Kaufman.	
Gunnison.....	Gunnison.....	7,670	19	61.2	+ 0.1	84	21	31	6	46	1.44	+ 0.10	0.41	0	12	11	16	David Evans.	
Hesperus (near).....	La Plata.....	7,610	2										2.42	0	11	6	5	Clarence Adams.	
Horselly.....	Montrose.....	8,700	2										2.75	0	14	12	14	G. F. Snyder.	
Ironton.....	Ouray.....	10,000	2										3.83	T.	14	3	15	Lawrence J. Finch.	
Lake City.....	Hinsdale.....	8,686	7	58.6		82	9	32	5	40	2.45		0.63	0	20	5	17	Mrs. Amanda E. Foley.	
Lay.....	Moffat.....	6,190	18	65.0	- 1.5	89	24	35	3	48	1.69	+ 0.78	0.29	0	14	14	9	J. F. Maurer.	
Mancos.....	Montezuma.....	6,960	13	63.7	- 3.2	86	10	32	5	42	2.18	+ 0.56	0.38	0	12	11	17	A. G. Wallihan.	
Marble.....	Gunnison.....	7,951	3	58.2		82	17	32	4†	43	2.13		0.50	0	12	19	9	B. M. Krumpalitzky.	
Marshall Pass.....	Saguache.....	10,846	9										2.39	0	6	15	4	F. E. Morse.	
Meeker (near).....	Rio Blanca.....	6,182	20	62.0	- 3.5	88	20	35	3†	49	3.59	+ 1.99	0.60	0	12	10	15	Wm. L. Williams.	
Montrose.....	Montrose.....	5,811	23	69.5	- 0.2	92	10†	41	5	42	1.59	+ 0.75	0.48	0	11	11	18	T. Baker.	
Nast.....	Pitkin.....	7,953	2	55.5		80	17	31	6	44	3.71		0.97	0	8	10	14	U. S. Reclamation Service.	
Pagoda.....	Routt.....	6,800	21	62.0		89	10	24	5	59	2.89		0.64	0	11	7	21	Arthur Hanthorn.	
Pagosa Springs.....	Archuleta.....	7,108	5	62.0		89	10	24	5	59	2.89		0.64	0	11	7	21	Mrs. J. W. Scott.	
Panola.....	Delta.....	5,694	17	67.5	- 5.0	89	10	45	5	39	1.50	+ 0.53	0.70	0	7	14	15	E. P. Walker.	
Pitkin.....	Gunnison.....	9,500	3										2.14	0	9	8	6	J. M. Underwood.	
Pyramid.....	Rio Blanca.....		1	59.9		84	18†	35	3	42	2.29		0.60	0	13	3	28	Mrs. Maggie Cammann.	
Rangely.....	do.....	5,050	13	67.4	- 2.5	101	18	37	5	57	1.10	+ 0.47	0.70	0	3	11	11	E. E. Egly.	
Redcliff.....	Eagle.....	8,695	19										2.89	0	12	14	6	J. H. McGuire.	
Redvale.....	Montrose.....												2.85	0	8	9	11	Dorothea Greiner.	
Rico.....	Dolores.....	8,824	10															Dr. E. S. C. Foster.	
Rifle.....	Garfield.....	5,437	6	69.4		92	17†	43	4	42	0.98		0.23	0	11	13	14	Clinton B. Smith.	
River Portal.....	Montrose.....	6,570	6	65.4		89	10†	40	5	43	1.09		0.20	0	14	8	20	Herman Eiche.	
Sapinero (near).....	Gunnison.....	8,125	9	56.7		79	21	32	6	41	1.71		0.33	0	9	15	12	U. S. Reclamation Service.	
Shoshone.....	Garfield.....	6,110	2	67.4		91	21	45	6	40	3.00		0.34	0	17	12	9	W. F. Irving.	
Silverton (near).....	San Juan.....	9,400	5	52.6		74	11†	25	1	38	4.17		0.55	0	15	12	6	Central Colo. Power Co.	
Spruce Lodge.....	Grand.....	9,600	4										1.10	0	18			San Juan W. & P. Co.	
Steamboat Springs.....	Routt.....	6,683	9	59.6		88	10	31	4	51	4.98		0.72	0	14	16	11	H. J. Willis.	
Tacoma.....	La Plata.....	7,300	5										1.84	0	13	5	12	Herbert B. Gee.	
Telluride.....	San Miguel.....	8,750	5	57.0		81	17	29	5†	50	3.09		0.58	0	21	15	7	San Juan W. & P. Co.	
Terminal Dam.....	La Plata.....	8,300	2										1.85	0	9	17	7	Wm. T. March.	
Uncompahgre Plateau.....	Montrose.....	8,400	2											0	9	17	7	San Juan W. & P. Co.	
Yampa (near).....	Routt.....	8,000	3										4.67	0	15	3	26	Martin Esser.	
Utah.																			
Aneth.....	San Juan.....	4,800	8	77.4		97	11	46	4	42	0.56		0.24	0	6	18	11	H. R. Antes.	
Bluff.....	do.....			79.2		99	9	55	4†	38	1.19		0.32	0	6	8	20	Mrs. H. P. Raplee.	
Canaan.....	Washington.....												1.93	0	10			J. M. Lauritzen.	
Castle Dale.....	Emery.....	5,500	13	67.2	- 2.3	93	17	35	5	44	2.00	+ 1.46	0.75	0	5	19	12	James Jeffs.	
Cisco.....	Grand.....	4,447	13															J. J. Anderson.	
Desert Lake.....	Emery.....												1.07	0	4			F. F. Noyes.	
Dragon.....	Uinta.....		1	69.1		92	10†	39	5	49	2.10		0.46	0	13	13	6	H. D. Ford.	
Duchesne.....	Wasatch.....		5	65.1		90	17†	35	5	45	1.24		0.33						

TABLE 1.—Climatological data for July, 1912. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	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, 0.01 inch or more.	Number of clear days.			Number of partly cloudy days.
<i>Utah—Continued.</i>																			
Loa.....	Wayne.....	7,000	19															W. S. McClellan.	
Manila.....	Uinta.....	6,225	2	63.6		90	17	35	5	45	0.55		0.20	0	5	12	17	Daniel N. Nelson.	
Moab.....	Grand.....	4,000	22	77.0	- 0.6	102	17	46	5	47	0.90	+ 0.31	0.32	0	8	5	20	Henry Crouse.	
Monticello.....	San Juan.....	7,545	3	63.5		85	17†	39	4†	40	3.11		0.60	0	10	10	21	Geo. F. Barton.	
New Harmony.....	Washington.....										3.15		1.30	0	4			Geo. F. Prince.	
Orderville.....	Kane.....	6,660									1.79		0.55	0	14			F. A. Porter.	
Pine Valley.....	Washington.....	6,000									3.05		1.02	0	11	8	10	Mason Gardner.	
Price.....	Carbon.....	5,557	1	70.0		96	17	46	4	45	1.04		0.26	0	9	18	8	R. H. Thompson.	
Ranch.....	Kane.....	6,700	9	60.6		83	17	35	2†	38	1.39		0.70	0	3	12	15	J. W. Seaman.	
San Rafael.....	Emery.....																	W. C. Foy.	
St. George.....	Washington.....	2,880	25	75.9	- 6.4	103	16	50	5	44	1.61	+ 0.54	0.87	0	6	1	11	A. B. Ballantyne.	
Scoville.....	Carbon.....	7,625	2	56.3		85	17	26	5	49	1.79		0.45	0	13	15	2	B. Newren.	
Springdale (near).....	Washington.....	3,500	4	81.6		105	16	56	31	35	1.35		0.65	0	5	13	0	Hattie Wood.	
Strawberry Tunn'l (east).....	Utah.....			53.8		80	17	24	5	50	2.30		0.74	0	9	9	7	U. S. Reclamation Service.	
Sunnyside.....	Carbon.....	5,280	7											0	12	7	10	A. Rader.	
Teasdale.....	Wayne.....	7,000	2	61.6		84	10	35	5	38	1.34		0.67	0	12	7	10	Henry Cullum.	
Thompsons.....	Grand.....	5,150	1			48	5	48	5	38	1.22		0.49	0	6	13	16	A. M. Starmont.	
Tropic.....	Garfield.....	7,000	15	64.6	- 2.9	91	10†	38	4	44	1.75	+ 0.84	0.54	0	6	3	22	Geo. F. Bolton.	
Troutereck Ranger.....	Uinta.....	9,200									3.16		0.60	0	15	4	13	Forest Supervisor.	
Vernal.....	do.....	5,050	15	67.4	- 4.4	93	10†	40	5	46	0.48	- 0.30	0.18	0	5	21	6	S. P. Trim.	
White Rocks.....	do.....										0.78		0.26	0	8	6	16	C. F. Keil.	
Woodside.....	Emery.....	4,645	1	72.9		100	17	43	5	48	0.36		0.25	0	2	11	16	D. P. Adams.	
<i>New Mexico.</i>																			
Alma.....	Socorro.....	5,500	15	73.2	- 1.2	100	9†	43	5	51	3.55	+ 1.06	0.82	0	10	6	23	M. A. Balke.	
Aragon.....	do.....		5	65.4		90	10	38	4	43	3.51		0.60	0	10	7	21	J. R. Milligan.	
Aztec.....	San Juan.....	5,590	12								1.53	+ 0.45	0.94	0	4	8	19	Dr. T. J. West.	
Berger's Ranch.....	McKinley.....	8,000		60.8		86	10	29	5	49	2.98		0.72	0	15	8	14	Herman Berger.	
Blackrock.....	do.....	6,500	3			95	8				2.71		0.53	0	18	9	4	Patrick Des Georges.	
Bloomfield.....	San Juan.....	5,500	17	73.0	- 1.6	97	17	38	5	54	0.67	- 0.29	0.37	0	5	6	24	F. Le Clerc.	
Cambrey.....	Luna.....	4,215	13			105	8				1.87	+ 0.39	1.58	0	7	11	13	Agent S. P. Ry.	
Cliff.....	Grant.....	4,470	12	74.0	- 3.1	98	10	46	4	40	5.38	+ 2.61	1.10	0	13			W. C. Belden.	
Columbus.....	Luna.....	4,054	3			103	11	60	5†	38	2.22		0.93	0	8	14	14	Agent E. P. & S. W. Ry.	
Deming.....	do.....	4,333	35	82.8		103	11	60	5†	38	2.02		0.93	0	8	14	14	Agent S. P. Ry.	
Dulce.....	Rio Arriba.....	6,756	15	65.8*	+ 0.7	88*	11†	30*	5	53*	2.01	- 0.07	1.05	0	10	11	17	William R. Deyer.	
Fort Bayard.....	Grant.....	6,152	37	70.6	+ 2.1	95	10	51	24	33	2.42	- 0.60	0.47	0	14	16	15	U. S. Gen'l Hospital.	
Fruitland.....	San Juan.....	4,800	18	70.8	- 3.7	94	17	40	5	46	2.29	+ 1.38	1.75	0	4	12	19	C. J. Collyer.	
Gage.....	Luna.....	4,486	12	77.1		101	25	59	16†	36	5.75	+ 3.56	2.00	0	10	18	2	Agent S. P. Ry.	
Gila Planting Station.....	Grant.....	6,475	1	69.6		93	10	51	3†	32	3.23		0.70	0	13	16	11	U. S. Forest Service.	
G. O. S. Ranch.....	do.....	8,000		69.0		98	10	42	4†	48	2.91		0.92	0	10	7	18	Victor Culberson.	
Hachita.....	do.....	4,504	3								3.25		1.50	0	8	7	11	Agent E. P. & S. W. Ry.	
Haynes.....	Rio Arriba.....	6,600	1	67.3		91	28	35	5	50	1.36		0.48	0	5	9	19	Dr. J. R. Haynes.	
Hermans.....	Luna.....	4,451	3			101	9	54	5		1.19		0.20	0	9	13	2	Agent E. P. & S. W. Ry.	
Lordsburg.....	Grant.....	4,245	29	77.0	- 5.3	104	10	50	6	47	4.19	+ 2.34	1.10	0	10	1	29	J. H. McClure.	
Luna.....	Socorro.....	7,300		63.2*		88	11	33	5	49	3.39	+ 1.10	0.67	0	10	5	26	C. B. Martin.	
Mimbres.....	Grant.....	5,007	7								4.81		1.07	0	10	15	15	C. Dennis.	
Pinos Altos (near).....	do.....	7,253	3					42	6		4.30		0.78	0	14	7	24	O. L. Scott.	
Pratt.....	do.....	4,415	1								1.56		0.94	0	4	23	8	Agent E. P. & S. W. Ry.	
Redrock.....	do.....	4,150	3								3.51		1.31	0	12	6	22	Robt. H. Woods.	
Rodeo.....	do.....	4,118	7			104	10†				1.50		0.75	0	7	5	18	Agent E. P. & S. W. Ry.	
Silver City.....	do.....	5,860	1	72.0		100	10	49	5	40	5.40		1.83	0	12	18	10	E. M. Brumback.	
<i>Arizona.</i>																			
Allaires Ranch.....	Cochise.....	4,184	16								4.31	+ 1.72	1.13	0	12	11	11	9	Thomas Allaire.
Alpine.....	Apache.....	8,500	3	58.2		88	11			50*	3.33		0.75	0	13	9	19	3	U. S. Forest Service.
Aztec.....	Yuma.....	492	12	88.9	- 6.4	112	8	65	4†	41	T.	- 0.22	T.	0	0	11	0	20	Agent, S. P. Ry.
Benson.....	Cochise.....	3,523	30	75.6	- 9.5	106	9			48*	2.19	+ 0.14	0.70	0	8				Do.
Bisbee.....	do.....	5,500	22	71.8	- 3.5	95	10	53	5	31	5.34	+ 1.74	2.00	0	16	8	7	16	Rev. J. G. Pritchard.
Blue.....	Greenlee.....	6,000									4.48		0.73	0	12	7	24	0	Mary A. Jones.
Bowie.....	Cochise.....	3,756	34	76.8	- 3.7	109	10	49	26	44	4.20	+ 1.50	1.27	0	6	2	19	10	Agent, S. P. Ry.
Buckeye.....	Maricopa.....	980	20	86.4	- 1.0	112	11	56	4	46	1.16	- 0.07	0.68	0	5	19	8	4	H. E. Kell.
Canille.....	Santa Cruz.....	5,225	3								8.51		3.00	0	17	6	17	8	Robert A. Rodgers.
Casa Grande.....	Pinal.....	1,396	30								1.30	+ 0.54	0.50	0	5	20	1	10	Agent, S. P. Ry.
Casa Grande Ruins.....	do.....	1,422	4	84.7		109	10	56	3	44	4.52		1.41	0	9	11	15	5	Frank Pinkley.
Cavecreek.....	Maricopa.....	1,520	5																E. A. Howard.
Chin Lee.....	Apache.....	6,090	4	70.0		96	10†			55*	1.02		0.48	0	9	5	5	21	Rev. L. Ostermann, O. F. M.
Chlarsons Mill.....	Graham.....	8,000	4	63.6		84	10	46	4†	34	5.21	+ 3.35	1.93	0	12	2	20	9	Hiram R. Charlson.
Clifton.....	Greenlee.....	3,584	4	83.1		109	10	64	4†	34	3.03	+ 1.14	0.60	0	8	9	17	2	Ariz. & N. Mex. Ry. Co.
Cline.....	Gila.....	2,300	11	81.2	- 3.2	105	10	54	4†	46	6†	4.45	+ 2.40	0	12	19	1	11	W. M. Clanton.
Cochise.....	Cochise.....	4,219	14	77.1	- 4.3	104	10	43	6†	57	4.45	+ 2.40	2.65	0	10	19	3	9	Agent, S. P. Ry.
Columbia.....	Yavapai.....	1,900	12	86.6	- 1.1	110	9	64	26	32	8.00	+ 5.89	2.65	0	10	19	3	9	M. J. Nolan.
Courtland.....	Cochise.....	4,543	3								3.76		0.75	0	12	8	18	5	Agent, E. P. & S. W. R. R.
Dos Cabezos.....	do.....	5,250	4	72.4		104	8	40	29	54	5.84		1.13	0	14	8	13	10	Neil Erickson.
Douglas.....	do.....	3,930	9	77.4		107	10	41	5	56	2.31		0.40	0	17	11	7	13	Dr. F. T. Wright.
Dudleyville.....	Pinal.....	2,204	11	77.2	- 10.1	103	10	56	3†	40	3.90	+ 1.93	1.50	0	15	9	12	10	George F. Cook.
Fairbank.....	Cochise.....	3,862	3								6.48		2.40	0	9	3	13	15	Agent, E. P. & S. W. R. R.
Flagstaff.....	Coconino.....	6,907	20	61.2	- 3.8	85	11	32	4†	43	4.96	+ 3.17	1.18	0	18	5			

TABLE 1.—Climatological data for July, 1912. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				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, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
<i>Arizona—Continued.</i>																				
Kearns Canyon.....	Navajo.....	6,600	7	68.6	.....	91	10†	39	4†	44	2.78	.....	1.20	0	8	14	17	0	w.	David E. Livesay.
Kingman.....	Mohave.....	3,326	10	80.0	- 2.5	102	10	55	3†	39	0.09	- 0.79	0.03	0	4	18	0	13	s.	Agent A. T. & S. F. Ry.
Lakeside.....	Navajo.....	6,500	8	64.6	.....	92	10	38	5	46	9.16	+ 7.02	3.57	0	14	8	0	23	sw.	Prof. Joseph Peterson.
Lewis Springs.....	Cochise.....	4,029	3	.....	.....	.....	.....	.....	.....	.....	4.19	.....	1.00	0	11	5	7	19	.....	Agent E. P. & S. W. R. R.
McNeal.....	do.....	4,490	2	.....	.....	.....	.....	.....	.....	.....	3.16	.....	0.67	0	13	6	21	4	sw.	Miles McNeal.
Maricopa.....	Pinal.....	1,186	36	88.0	- 5.9	114	10	58	5	47	.....	+ 1.03	1.10	0	5	18	10	3	w.	Agent S. P. Ry.
Mesa.....	Maricopa.....	1,244	17	82.2	- 6.2	107	9	56	3	43	1.57	+ 0.15	0.80	0	4	9	15	3	sw.	C. L. Diehl.
Mohawk Summit.....	Yuma.....	538	12	.....	.....	114	8	64	4	.....	0.19	- 0.03	0.12	0	4	21	3	7	w.	Agent S. P. Ry.
Naco.....	Cochise.....	4,579	3	.....	.....	.....	.....	.....	.....	.....	3.73	.....	1.65	0	12	7	24	0	w.	Agent E. P. & S. W. R. R.
Natural Bridge.....	Gila.....	4,990	23	.....	.....	.....	.....	.....	.....	.....	3.64	+ 1.14	1.00	0	9	8	21	2	sw.	D. G. Goodfellow.
Oracle.....	Pinal.....	4,500	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Lawson.
Osborn.....	Cochise.....	4,676	3	.....	.....	.....	.....	.....	.....	.....	3.85	.....	1.14	0	15	5	22	4	w.	Agent E. P. & S. W. R. R.
Paradise.....	do.....	5,436	5	69.6	.....	104	8	42	5	51	4.89	.....	2.58	0	11	4	23	4	nw.	J. C. Hancock.
Parker.....	Yuma.....	1,345	14	88.4	- 3.7	113	10	65	5†	45	1.78	+ 1.41	0.50	0	6	20	8	3	sw.	M. A. Israel, M. D.
Payson.....	Gila.....	5,550	4	70.3	.....	97	10	42	4	47	1.73	.....	0.44	0	6	.....	.....	.....	.....	Mart McDonald.
Phoenix.....	Maricopa.....	1,108	17	85.4	- 5.0	108	10	63	5	37	1.29	+ 0.22	0.52	0	9	12	12	7	e.	U. S. Weather Bureau.
Phoenix (1).....	do.....	1,092	20	85.4	- 3.6	109	8†	58	4	46	2.03	+ 0.81	1.45	0	3	12	13	6	w.	George Acuff.
Phoenix (2).....	do.....	1,189	4	85.2	.....	105	10	60	4†	42	1.82	.....	0.92	0	5	22	0	9	sw.	Salt River Val. Nurseries.
Pinal Ranch.....	Pinal.....	4,520	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Irion & Craig.
Pinto.....	Apache.....	5,660	8	.....	.....	.....	.....	.....	.....	.....	2.22	.....	0.95	0	4	14	17	0	sw.	Mrs. Celia F. Henning.
Prescott.....	Yavapai.....	5,320	44	67.5	- 4.0	93	10	34	3	42	6.19	+ 3.29	1.93	0	15	13	13	5	sw.	John W. Flinn, M. D.
Quartzsite.....	Yuma.....	800	5	89.2	.....	114	11	52	3	42	1.75	.....	1.20	0	6	11	11	9	sw.	W. E. Scott.
Redrock.....	Pinal.....	1,864	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Crowell.
Roosevelt.....	Gila.....	2,175	7	.....	.....	108	10†	.....	.....	.....	3.95	.....	0.95	0	7	6	25	0	w.	U. S. Reclamation Service.
Sacaton.....	Pima.....	1,280	25	85.6	.....	110	10	56	4	46	4.27	.....	2.00	0	6	4	16	11	sw.	E. W. Hudson.
St. Michaels.....	Apache.....	6,950	25	67.2	- 2.0	90	11†	39	5	44	1.83	- 0.74	0.40	0	9	.....	.....	.....	.....	Rev. A. Weber, O. F. M.
Salome.....	Yuma.....	1,875	5	78.3	.....	106	11	50	3†	47	0.89	.....	0.82	0	2	13	15	3	se.	Mrs. M. B. Swartz.
San Simon.....	Cochise.....	3,209	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent S. P. Ry.
Seligman.....	Yavapai.....	5,219	7	67.6	.....	91	9†	37	4	47	1.50	.....	1.00	0	11	8	0	23	sw.	Librarian A. T. & S. F. Ry.
Sentinel.....	Maricopa.....	685	14	90.6	- 4.1	112	11	60	4	29	0.07	- 0.61	0.04	0	4	19	10	2	sw.	Agent S. P. Ry.
Silverbell.....	Pima.....	2,650	7	82.6	.....	104	11	60	4	39	4.86	.....	1.30	0	8	15	0	16	s.	Imperial Copper Co.
Snowflake.....	Navajo.....	5,644	6	68.6	.....	96	10†	37	4†	53	0.65	.....	0.12	0	7	5	7	19	.....	Wm. J. Flake.
Springerville.....	Apache.....	6,862	2	63.6	.....	89	10	37	6	48	2.04	.....	0.70	0	11	15	6	10	sw.	U. S. Forest Service.
Supai.....	Cocconino.....	3,200	4	77.4	.....	106	10†	46	4	49	1.62	.....	0.36	0	10	8	9	14	.....	Laura B. Symons.
Tempe.....	Maricopa.....	1,165	8	85.0	.....	110	10	57	4	44	2.67	.....	0.70	0	9	14	14	3	nw.	F. H. Simmons.
Thatcher.....	Graham.....	2,800	9	81.6	.....	113	10	51	5	53	3.16	.....	0.63	0	12	9	18	4	.....	Prof. J. H. Larson.
Tombstone.....	Cochise.....	4,550	17	76.2	- 2.1	105	10	53	3	40	5.42	+ 2.25	1.48	0	9	6	23	2	.....	F. N. Walcott.
Truxton.....	Mohave.....	3,997	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Truxton Canyon Ind. School.
Tuba.....	Cocconino.....	4,500	12	72.6	- 5.1	97	17	44	4	44	0.98	+ 0.32	0.31	0	8	10	15	6	sw.	H. P. Marble.
Tucson.....	Pima.....	2,330	32	81.6	- 5.1	105	7†	44	4	43	3.00	+ 0.90	1.20	0	8	5	10	16	nw.	University of Arizona.
Tucson (1).....	do.....	2,380	4	80.3	.....	107	8	42	4	51	3.41	.....	1.11	0	8	13	10	8	sw.	James F. Record.
Tucson (2).....	do.....	2,526	4	80.8	.....	106	10	52	5	44	3.49	.....	0.96	0	12	12	3	16	w.	U. S. Coast & Geodetic Surv.
Vail.....	do.....	3,421	14	81.2	- 4.5	104	11	52	24	39	4.06	+ 3.00	2.01	0	3	24	0	7	.....	Agent, S. P. Ry.
Walnut Grove.....	Yavapai.....	3,649	22	.....	.....	.....	.....	.....	.....	.....	5.52	+ 3.68	1.67	0	9	.....	.....	.....	.....	J. O. Carter.
Wickenburg.....	Maricopa.....	2,072	13	82.2	- 3.5	113	11	54	25	40	2.20	+ 1.21	1.40	0	2	16	12	3	sw.	Agent S. P. & P. Ry.
Wilcox.....	Cochise.....	4,164	32	75.4	- 6.4	103	10	50	5	48	3.30	+ 1.31	0.72	0	10	.....	.....	.....	.....	Agent S. P. Ry.
Williams.....	Cocconino.....	4,750	13	64.7	- 3.3	88	8†	32	4	50	4.97	+ 2.04	1.42	0	7	10	21	0	.....	B. J. Nordyke.
Winslow.....	Navajo.....	4,853	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John F. Bauer.
Yarnell.....	Yavapai.....	4,700	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. L. Bartholomew.
Yuma.....	Yuma.....	141	32	88.8	- 2.1	110	11	61	4	40	0.18	+ 0.06	0.14	0	2	28	3	0	sw.	U. S. Weather Bureau.
Yuma (1).....	do.....	150	5	83.1	.....	107	11	53	2†	47	0.08	.....	0.06	0	2	24	5	2	sw.	E. L. Crane.
<i>Nevada.</i>																				
Caliente.....	Lincoln.....	4,407	2	68.8	.....	100	16	40	8	53	0.32	.....	0.10	0	4	21	8	2	se.	Salt Lake Route.
Logan.....	Clark.....	1,355	5	82.5	.....	113	16	55	4	46	0.44	.....	0.22	0	4	24	6	1	s.	O. W. Jarvis.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
 ** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
 † Also on other dates.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for July, 1912. District No. 9—Continued.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Utah—Continued.</i>																																			
Monticello.....	do.....				.20									.02						.40	.27					.14	.40		.18	.50	.60	.40	3.11		
New Harmony.....	Colorado.....																		1.30									.67	.96	.22	3.15				
Orderville.....	do.....			.17	.28						.05	.12	.06				.54	.01									.08	.04	.08	.05	.18	.03	1.79		
Pine Valley.....	do.....			T.								.24	.06	.35	T.				1.02	.25		T.					.05	.55	.02	.20	.20	.11	3.05		
Price Ranch.....	Green.....				.21						.26								.02	.19	.02						.02	.19	.02	.03	.22	.11	1.04		
San Rafael.....	Colorado.....			T.	.25									.70	T.										T.	T.	T.	T.		.44	T.	1.39			
St. George.....	Green.....																																		
Scotfield.....	Colorado.....											.04	.06	.15					.87									.05	.38	.18	.03	.10	1.61		
Springdale.....	Greene.....	.01																	.20	.04		.03					.07	.07	.09	.45	.10	.42	1.79		
Strawberry Tunnel+E.....	Colorado.....																		.65								.10		.15	.35			1.35		
Sunnyside.....	Green.....				.05							.06	.20	.25					.46	.10		T.					.74		.18	.26	.20	2.30			
Teasdale.....	do.....																																		
Thompsons.....	Colorado.....			.02							.03	.07	.05	.08				.02	T.	T.	.10	T.					.09	.67	.10	.07	.04	T.	1.24		
Troutcreek Ranger Vernal.....	Green.....			.09							T.	.01	T.						.27			T.					T.	.05	.24	.07		.49	1.22		
White Rocks.....	Colorado.....										T.	.41	T.							.05		T.						.26	.44	.54	.05	T.	1.75		
Woodside.....	Green.....											.60	.07	.07	.20				.60	.30	.10						.15	.14	.16	T.	.35	T.	3.16		
<i>New Mexico.</i>																																			
Alma.....	Gila.....										T.	T.		.80				T.		.10	.40	.10	T.	.05	T.	.10	.82		.52	.54	.12	3.55			
Aragon.....	do.....																			.40	.40	.50	.32	.27	.60	.60	T.	.22	.10	.10			3.51		
Aztec.....	San Juan.....	T.		T.									.28						T.	T.								.17					1.53		
Berger's Ranch.....	L. Colorado.....											.03	.04	.05	.54					.04	.42			.72	.40	.08	.23	.03	.11	.12	.09	.08	2.98		
Blackrock.....	do.....											.04	.04						.02	.04	.01	.04	.36	.01	.08	.53	.01	.36	.15	.48	.40	.12	.01	2.71	
Bloomfield.....	San Juan.....	T.	T.	T.							T.	T.	T.	T.					T.	T.	T.		.15	.37	.01	T.	.04	T.	.10	T.	T.	T.	0.67		
Cambray.....	Mimbres.....											.04							.02	.12	.02	.04	1.10	T.	.14	1.58	.03	.03	.03	.03	.03	.03	1.87		
Cliff.....	Gila.....												.14	.14	.12	.02	.04	1.10										.36	.49	.13	T.	.03	.73	5.38	
Columbus.....	do.....																																	2.22	
Deming.....	Mimbres.....												.08																					2.00	
Dulce.....	San Juan.....																																	2.71	
Fort Bayard.....	Mimbres.....																																	2.42	
Fruitland.....	San Juan.....	T.																																2.29	
Gage.....	Mimbres.....																																	2.29	
Gila Planting Station.....	do.....	T.																																3.23	
G. O. S. Ranch.....	Gila.....	T.																																2.91	
Hachita.....	do.....																																		3.25
Haynes.....	San Juan.....																																		1.36
Hermanes.....	Gila.....																																		1.19
Lordsburg.....	do.....																																		4.19
Luna.....	do.....																																		3.39
Mimbres.....	Mimbres.....																																		4.81
Pinos Altos (near).....	Gila.....	.03																																4.30	
Prairie.....	do.....																																		1.56
Redrock.....	do.....																																		3.51
Rodeo.....	do.....																																		1.50
Silver City.....	Mimbres.....	.04	T.																															5.40	
<i>Arizona.</i>																																			
Allaires Ranch.....	Sonora.....																																		4.31
Alpine.....	Gila.....																																		3.33
Aztec.....	do.....																																		T.
Benson.....	San Pedro.....																																		2.19
Bisbee.....	do.....																																		5.34
Blue.....	Gila.....																																		4.48
Bowie.....	do.....																																		4.20
Buckeye.....	do.....																																		1.16
Canille.....	San Pedro.....																																		8.51
Casa Grande.....	Gila.....																																		1.30
Casa Grande Ruins.....	do.....																																		4.52
Cavecreek.....	Verde.....																																		1.02
Chin Lee.....	San Juan.....	T.	.02	T.	T.																													5.64	
Chiarsons Mill.....	Gila.....																																		5.21
Clifton.....	do.....																																		3.03
Cline.....	Salt.....																																		4.45
Cochise.....	Desert.....																																		8.00
Columbia.....	Agua Fria.....																																	3.76	
Courtland.....	White.....																																		5.84
Dos Cabezos.....	Desert.....																																		2.31
Douglas.....	Sonora.....																																		3.90
Dudleyville.....	Gila.....																																		6.48
Fairbank.....	San Pedro.....																																		4.96
Flagstaff.....	Little Colorado.....	.03		T.	T.																														3.51
Flagstaff (1).....	do.....				.05																														2.25
Florence [1].....	Gila.....																																		

TABLE 2.—Daily precipitation for July, 1912. District No. 9—Continued.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Arizona—Contd.</i>																																			
Maricopa	Gila												.07												.30	.03	.30				1.10			1.80	
Mesa	Salt											T.	T.		T.		.55				.02				T.	.20	T.				.80			1.57	
Mohawk Summit	Gila											.01	.03				.12										.03							0.19	
Naco	San Pedro									T.		.07	.35	.13			.11	.05	.22		.45	.20			1.65		.06	.04	.40				3.73		
Natural Bridge	Verde											.48	.15			.10		.27		.25	.25	.25	.25		.50		.40	.49	1.00			3.64			
Osborn	San Pedro											.09	.41			.14	.15	.03	.52	.25	.38	.23	.09	1.14		.09	.16	.14	.03				3.85		
Paradise	Desert											T.	.28			.12	.07	.12	.37	.12		.55	.08	2.58				.38						4.89	
Parker	Colorado											.20	.92			.10		.01									.05	.50						1.78	
Payson	Verde											T.	.34	.13													.37		.44	.16				1.73	
Phoenix	Salt											.02	T.		T.	T.	.38	.02		.16	T.				.13		.04	T.	.02	.06	.46			1.29	
Phoenix (1)	do									T.		T.	T.		T.	T.	1.45								.05	T.	T.	T.	T.	.53			2.03		
Phoenix (2)	do											T.	T.		T.	T.	.92					.19			.14		.08	T.	T.	T.	.49			1.82	
Pinal Ranch	Gila																																		
Pinto	L. Colorado											T.	T.	T.		T.	T.					T.	.25				.95	T.	.92		.10			2.22	
Prescott	Hassayampa									T.			T.	.16		.98	.16	.75	.20	.05	.02				.23	.84	1.93	.18	.11	.22	.12	.24		6.19	
Quartzsite	Colorado											.06	1.20	.03			.20										.05	.21						1.75	
Redrock	Santa Cruz																																		
Roosevelt	Salt											.15	.50						.65		.75		.75		.95			.60	.35				3.95		
Sacaton	Gila											.07					.74		.69				.72			.05							4.27		
St. Michaels	L. Colorado		T.										.05		.10			.10		.08	.23	.40	.05	T.	.06	.26		T.					1.33		
Salome	Colorado																																	0.89	
Seligman	Verde											T.	.09	.05		.01	T.	.05						T.	.06	1.00	.05	.06	T.	.02	.03	.08		1.50	
Sentinel	Gila												.01				.01		.01															0.07	
Silverbell	Santa Cruz											.10	1.30				.97		.07				.38		1.29		.30	.45					4.86		
Snowflake	L. Colorado											T.	.12	T.				.12	.10			T.		.10				.05	.06	T.			0.65		
Springerville	do										.05		.12	.15		.05		.70		.15	.08	.08	.17		.40		.09						2.04		
Supai	Colorado				.01							.36	.16				.11	.25							.29		.05		.21	.05	.13			1.62	
Tempe	Salt											.02	.08	.13	T.	T.		.49			.36			.21	.01	.70	T.		.09	.40	.10		2.67		
Thatcher	Gila											.10	.26	.15																				3.16	
Tombstone	San Pedro								T.			.70		.15					T.	1.44	.39	.16		.16	1.48	.38		.61		.10			5.42		
Truxton	Colorado																																		
Tuba	Little Colorado				.05									.16					.16					.05		.15		.31		.07	.03			0.98	
Tucson	Santa Cruz										T.	T.	.62	T.		.28				1.20			.37		.39			.09	.02	.03				3.00	
Tucson (1)	do											.20	.40					1.11					.62		.45			.12	.13	.38				3.41	
Tucson (2)	do										T.	T.	.96			.01	.02	.01	.68	T.			.78	.02	.75	.11	T.		.10	.01	.04			3.49	
Vail	do												1.65												2.01		.40							4.06	
Walnut Grove	Hassayampa										T.	T.	.80			.30		.50	.70						1.20		1.49	.18	.18	.17				5.52	
Wickenburg	do																1.40									.82								2.22	
Willcox	Desert											(*)	.72	.10		.14		.49					.30	.20	.52		.30	.25		.28			3.30		
Williams	Colorado												1.42	.90		.10									.40		.90		.80		.45			4.97	
Winslow	Little Colorado																																		
Yarnell	Hassayampa																																		0.15
Yuma	Colorado												.04						.14																
Yuma (1)	do												.02					.06											T.					0.08	
<i>Nevada.</i>																																			
Caliente	Colorado												.10	.10																	.10	.02			0.32
Logan	do												.03																	.16	.22				0.44

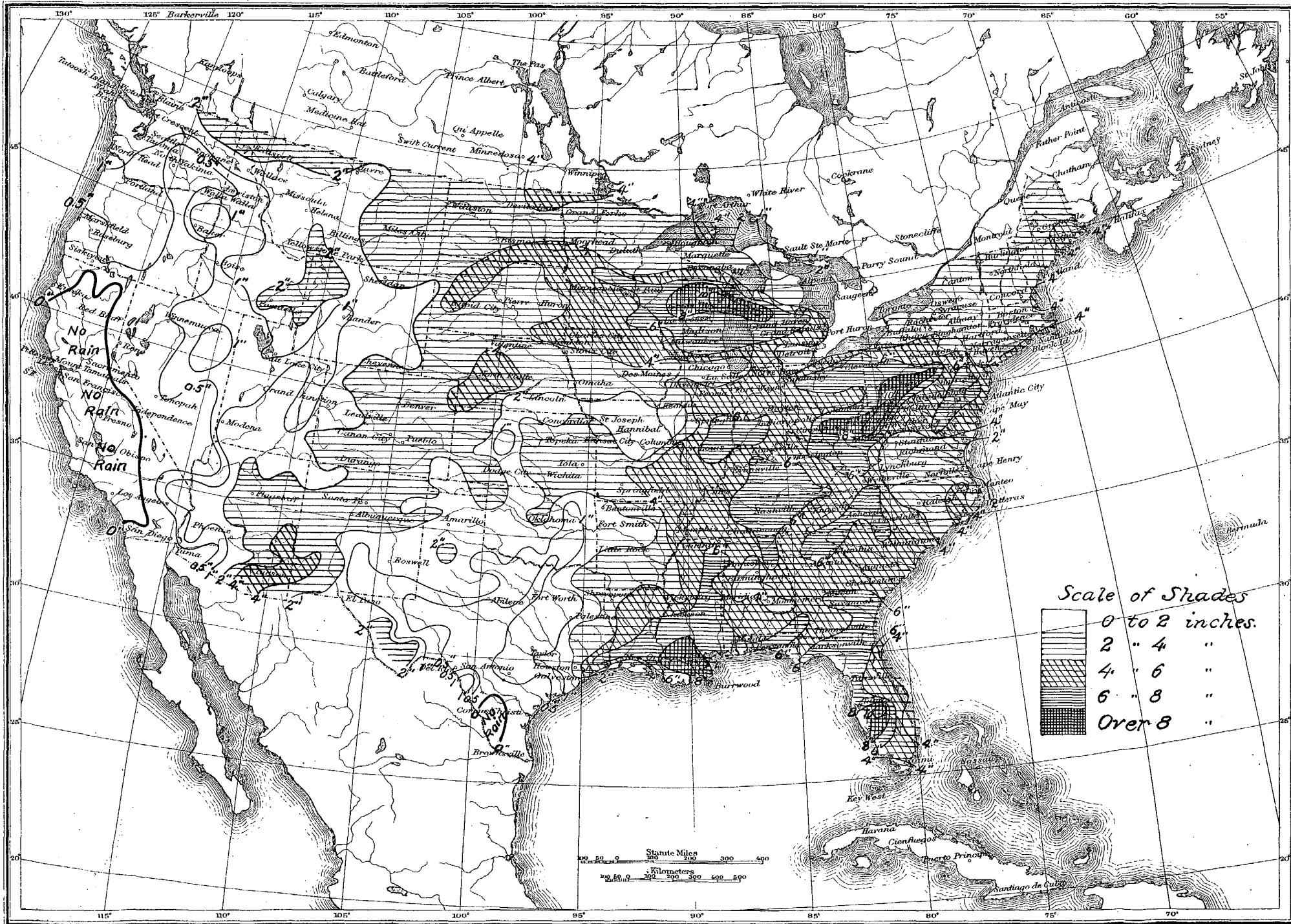
* Precipitation included in that of the next measurement.
 † Separate dates of falls not recorded.
 †† Precipitation for the 24 hours ending on the morning when it is measured.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for July, 1912. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.								New Mexico.							
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George. §§		Bloomfield.		Fort Bayard.	
	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.....	69	40	79	48	76	46	87	62	71	38	70	40	72	34	74	32	85	48	93	63	92	65	90	57	85	52	84	58
2.....	70	39	81	40	78	46	85	65	72	37	72	47	71	35	79	35	83	43	92	66	88	63	83	59	84	52	83	55
3.....	69	42	79	48	65	46	73	56	74	42	72	35	67	34	78	32	80	50	89	73	81	66	79	65	81	58	81	55
4.....	71	43	69	37	61	42	66	50	75	39	66	35	54	31	81	35	76	42	80	61	81	57	83	53	70	50	78	52
5.....	70	41	79	40	75	36	80	49	79	35	70	39	67	42	83	36	83	39	90	54	86	46	83	50	81	38	82	52
6.....	75	45	82	42	83	41	91	58	77	31	62	55	78	33	75	32	89	47	98	56	95	48	95	51	88	43	87	54
7.....	70	35	88	47	85	44	93	62	74	34	80	40	79	38	80	35	93	47	100	56	94	55	95	60	94	40	89	59
8.....	65	38	81	46	85	42	93	59	80	45	83	40	78	33	80	37	92	48	99	75	97	55	96	61	94	46	92	59
9.....	71	40	84	41	85	44	94	56	78	32	84	35	79	32	85	55	92	45	99	66	99	52	98	65	93	47	92	61
10.....	69	31	89	49	88	47	95	60	81	39	85	40	88	37	81	52	97	47	100	63	100	54	96	61	96	45	95	62
11.....	74	38	86	53	88	50	94	66	82	36	85	45	80	37	85	56	95	58	104	73	99	54	102	62	95	51	91	62
12.....	74	37	82	47	84	62	90	65	79	38	74	50	71	46	80	51	85	57	101	71	95	63	96	68	93	69	90	61
13.....	70	40	84	38	85	42	88	63	80	40	81	41	80	36	82	50	80	49	96	73	89	62	86	68	95	56	84	62
14.....	74	43	84	41	81	52	85	63	73	53	78	52	75	53	76	50	83	47	92	71	95	60	93	66	95	56	85	61
15.....	80	41	91	51	83	50	90	60	78	57	80	46	77	41	81	52	90	53	98	64	95	56	100	64	93	62	85	58
16.....	81	43	88	54	81	51	93	64	75	56	81	45	82	38	86	51	96	49	100	71	99	63	103	61	95	60	82	58
17.....	81	42	71	46	87	32	95	65	79	50	85	40	83	40	82	51	97	48	104	69	102	68	101	71	97	64	86	57
18.....	73	42	85	49	84	37	92	67	83	44	85	47	81	40	81	56	95	60	99	78	97	67	93	65	94	61	85	61
19.....	64	52	88	58	79	58	79	63	80	47	77	56	76	50	85	55	82	58	94	75	95	72	93	65	92	63	81	59
20.....	72	57	90	50	86	54	90	60	78	53	88	45	78	51	81	52	88	55	99	67	96	60	98	66	95	62	83	61
21.....	78	47	85	53	81	51	94	64	84	60	85	45	82	40	81	51	94	54	101	67	99	58	98	68	92	59	82	60
22.....	78	43	86	42	75	57	85	69	83	68	80	57	80	63	80	51	90	52	98	76	95	69	96	69	84	60	74	59
23.....	75	39	88	54	79	55	90	64	82	60	81	47	79	49	76	50	91	53	97	74	97	67	95	51	85	60	74	52
24.....	80	40	87	42	76	57	94	66	76	45	84	48	82	43	82	51	92	47	100	73	98	61	97	61	84	62	78	51
25.....	81	41	89	46	78	55	77	66	75	49	75	52	76	47	81	52	84	58	91	76	86	69	84	65	89	59	78	57
26.....	82	45	83	49	79	55	89	62	77	43	78	49	78	51	79	50	88	58	93	67	94	61	93	66	88	58	77	55
27.....	81	43	87	56	76	50	82	62	70	45	74	50	77	51	78	52	88	60	95	66	90	63	95	64	88	55	81	52
28.....	82	42	91	48	85	49	88	60	78	43	78	45	78	45	79	51	89	54	94	66	95	59	92	66	93	57	82	62
29.....	81	45	92	53	83	58	87	65	75	42	75	57	81	42	78	56	88	60	97	69	95	63	81	65	93	62	83	59
30.....	75	52	84	52	82	54	85	65	78	51	78	52	78	50	75	51	89	60	98	70	92	63	80	61	92	61	83	57
31.....	76	50	88	64	83	52	87	63	76	47	75	52	77	48	79	52	89	62	95	74	93	60	90	61	92	64	84	58
Mns.....	74.5	42.5	84.5	47.5	80.5	50.7	87.5	61.9	77.4	44.9	78.1	46.0	76.9	42.3	80.1	47.5	88.5	51.9	96.3	68.5	93.8	60.3	89.4	62.4	90.0	55.9	83.6	57.7

Date.	Arizona.																				Logan, Nev.	
	Bisbee.		Flagstaff.		Fort Apache. §§		Grand Canyon. §§		Parker.		Phoenix.		Prescott.		St. Michaels.		Tucson.		Yuma.		Max.	Min.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	88	61	72	41	87	51	74	35	100	72	101	73	81	43	79	45	99	67	100	71	95	58
2.....	83	64	72	42	87	48	76	37	93	76	100	69	79	43	79	49	98	64	95	65	89	60
3.....	81	64	62	49	82	46	79	36	88	72	90	70	69	34	75	55	92	67	87	65	85	65
4.....	79	66	66	32	78	45	80	39	97	70	90	63	77	40	69	44	90	62	96	61	90	55
5.....	84	53	75	32	87	44	80	38	103	65	100	63	85	43	81	39	97	54	104	64	94	58
6.....	89	62	79	38	92	49	81	40	108	69	103	67	87	49	86	42	102	62	103	67	101	60
7.....	93	64	80	42	93	52	82	41	108	65	101	71	87	48	86	52	105	63	105	66	100	61
8.....	92	65	82	43	94	50	83	42	106	69	103	70	88	46	87	50	105	63	108	68	102	61
9.....	93	69	82	41	94	54	86	48	105	65	105	72	89	50	89	49	102	68	108	72	105	64
10.....	95	68	82	48	99	58	85	53	113	68	108	76	93	54	88	51	105	71	109	72	104	69
11.....	94	71	85	44	98	63	78	53	111	75	108	82	90	54	90	53	105	80	110	77	105	76
12.....	86	62	77	50	95	59	79	54	92	78	96	78	84	61	88	63	97	76	93	79	102	66
13.....	77	59	67	54	81	59	83	55	98	75	95	71	78	59	79	56	87	67	100	75	94	70
14.....	79	61	75	46	81	58	81	55	100	75	98	72	83	51	80	54	92	69	100	73	99	66
15.....	86	60	82	47	92	57	80	54	105	78	104	74	88	53	85	52	100	70	110	75	104	65
16.....	84	60	82	54	87	58	81	54	108	75	103	82	90	61	86	52	101	71	108	84	113	67
17.....	85	60	78	51	89	59	81	53	103	78	100	70	81	59	90	51	98	68	100	78	104	70
18.....	76	62	78	52	90	57	80	54	102	78	98	70	83	57	88	53	99	73	106	80	92	71
19.....	82	61	74	53	85	61	76	49	105	78	99	79	81	61	81	57	93	68	105	80	99	67
20.....	78	64	76	49	88	58	70	49	110	79	104	75	84	56	84	55	96	73	108	77	99	71
21.....	78	62	75	54	83	60	78	47	106	76	98	77	83	64	79	54	92	72	106	80	104	69
22.....	69	61	72	58	70	61	78	50	106	76	87	77	79	61	73	60	81	69	106	78	102	63
23.....	72	60	77	52	82	59	75	50	103	76	99	76	82	61	80	57	89	70	101	81	99	62
24.....	71	60	73	54	77	57	64	48	103	75	82	71	79	58	76	55	79	67	103	77	100	65
25.....	72	61	67	54	80	56	62	53	101	78	90	72	73	58	81	51	82	69	101	78	93	76
26.....	77	58	65	53	80	54	60	50	98	72	89	74	69	57	81	55	88	70	102	77	96	68
27.....	81	58	68	53	83	54	75	52	102	78	93	73	71	57	79	48	91	68	105	76	99	71
28.....	77	58	70	50	86	5																

Total Precipitation, July, 1912.



Scale of Shades

[White box]	0 to 2 inches.
[Horizontal lines box]	2 " 4 "
[Diagonal lines box]	4 " 6 "
[Cross-hatch box]	6 " 8 "
[Solid black box]	Over 8 "

Statute Miles 0 50 100 200 300 400
 Kilometers 0 50 100 200 300 400 500

Departure of the Mean Temperature from the Normal, July, 1912.

