CLIMATOLOGICAL DATA FOR AUGUST, 1912.

DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

August, like the preceding month, was cooler and wetter than the average, but the departures were generally less marked than for July. A feature was the unequal distribution of precipitation in Arizona, the rainfall ranging from a trace over a considerable area in the northwestern part of the State to more than 10 inches in the southeastern part. Day temperatures were not so high as usual; in fact, readings of 100° or higher were relatively few, and occurred principally in Arizona. In the central and northern parts of the district cool nights predominated, and the freezing point was reached in western Wyoming and at one or more stations in the different areas, except western New Mexico and southeastern Nevada. The number of thunderstorms considered, there were few high winds, and but little damage from hail.

TEMPERATURE.

The mean of the 142 stations reporting was 70.8°, or 2° below the normal. The mean for August, 1911, was 72.8°. The highest monthly mean was 92.9° at Mohawk Summit, Ariz., and the lowest, 45.6°, at Corona, Colo. Except for a day here and there the first two decades were cooler than the normal, during which period there were a number of days with deficiencies ranging from 5° to 8°. The last decade averaged warmer than the normal in the northern and central portions of the district, but in central and southern Arizona the majority of days were cooler than the normal. In western Wyoming and western Colorado the highest temperatures occurred principally on the 26th, while in eastern Utah, western New Mexico, and Arizona the 8th and 9th were the warmest. On the other hand, there was no semblance of regularity in connection with the occurrence of the lowest temperatures, the minimum of the month occurring on every day at some station in the district.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	Departure from normal.	Highest.	Station.	Lowest.	Station.
Western Wyoming.	58.3	−0.6	94	Green River..	25	Daniel.
Western Colorado.	61.4	−2.3	101	Palisades.....	23	Silverton.
Eastern Utah.....	68.6	−0.9	103	Hite and St. George.	25	Strawberry Tunnel (east).
Western New Mexico.	69.0	−1.7	101	Pratt.....	34	Dulce.
Arizona.....	77.7	−2.4	117	Maricopa.....	32	Flagstaff No. 1.
Southeastern Nevada.	79.0	.....	108	Logan.....	42	Caliente.

PRECIPITATION.

The average for the 206 stations reporting was 1.88 inches, or 0.15 inch above the normal. The average for August, 1911, was 1.42 inches. The excess was for the most part due to heavy rainfalls on the watershed of the Mimbres in southwestern New Mexico and the upper Gila in southeastern Arizona. While rain fell every day at some station, showers were general in the northern half of the district on the 1st, from the 13th to 17th, and on the last 6 days. In Arizona and western New Mexico showers were frequent during the last 2 decades. The greatest monthly amount was 10.15 inches at Bisbee, Ariz., while none occurred at Nast, Colo., and Caliente, and Logan, Nev. No snowfall was reported.

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.
1.26	+0.26	1.21	−0.16	1.81	+0.31	1.79	−0.92	2.68	+0.27	4.08	+2.32	0.68	−0.55

The average number of days with 0.01 inch or more precipitation was 5 in western Wyoming, 7 in western Colorado, 5 in eastern Utah, 8 in western New Mexico, 6 in Arizona, and none in southeastern Nevada. For the district as a whole the average was 7 days.

MISCELLANEOUS.

The amount of sunshine was approximately normal in the southern part of the district, and appreciably above the normal in the northern part. The following values were reported: Grand Junction, 79; Durango, 87; Phoenix, 82; and Yuma, 92 per cent.

The relative humidity was somewhat above the average in Arizona. The following are the values: Grand Junction, 38; Durango, 56; Phoenix, 44; and Yuma, 50 per cent.

TABLE 1.—*Climatological data for August, 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, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Battle Mountain	Carbon	7,300																		U. S. Forest Service.
Bigpiney	Uinta			56.2		89	25	27	31	56	1.41		0.50	0	6	17	2	12	nw.	Ira Dodge.
Daniel	do	6,740	13	54.0	− 0.6	81	26	25	31	46	1.56	+ 0.52	0.60	0	4	16	13	2	nw.	J. M. Van Dervort.
Eden	Sweetwater	6,577	3	59.6		87	26†	31	31	49	0.95		0.95	0	8	19	8	4	w.	Eden Valley L. & I. Co.
Green River	do	6,183	7	65.6		94	26†	34	19	46	1.46		0.64	0	7	16	5	10	w.	Geo. H. Maxom.
Pinedale	Fremont	7,167	6	55.9[p]		83[p]	28†	28[p]	31	50[p]	0.68[p]		0.36	0	2[p]	8[p]	6[p]	1[p]	nw.	U. S. Forest Service.
Rambler	Carbon	9,232	1																	Do.
Willow Creek Cabin	Fremont	7,500	3																	Do.
Colorado.																				
Ashcroft	Pitkin	9,483	10	53.2	− 1.2	82	26	31	8	47	1.17	− 1.24	0.33	0	12					Dan McArthur.
Breckenridge	Summit	9,536	23																	Mrs. J. G. Thompson.
Buford	Rio Blanca		1								1.91		0.80	0	5	22	5	4	w.	Mrs. H. Genier.
Cascade	San Juan	8,900	5								2.66		0.66	0	11	17	5	9		San Juan W. & P. Co.
Cedaredge	Delta	6,175	14																	Harry A. Cobbett.
Chromo	Archuleta	7,500	6	59.8		87	27	28	14	57	1.85		1.00	0	6	21	2	8	sw.	Lawrence Nolan.
Cochetopa	Saguache	9,088	3								1.44		0.36	0	7	10	8	13	w.	Bessie McDonough.
Collbran	Mesa	6,000	19	65.5	− 2.1	87	9	45	8†	39	2.22	+ 0.89	0.56	0	9	21	7	3	sw.	A. A. Wood.
Columbine	Routt	8,766	2								2.41		0.48	0	10	19	12	0	sw.	Mrs. M. A. Caron.
Columbine Ranch	Delta	6,925	2								2.15		0.90	0	7	17	7	7	s.	George W. Wade.
Corona	Grand	11,660	5	45.6		60	25	30	8	24	1.64		0.32	0	7				w.	U. S. Weather Bureau.
Cortez	Montezuma	6,100	1																	W. G. Clucas.
Craig	Moffat		2																	Joseph F. Haubrich.
Crawford (near)	Montrose	6,600	2	64.6		85	26	44	16	35	1.50		0.56	0	10	22	6	3		C. W. Roe.
Crested Butte	Gunnison	8,867	2	52.1		74	5†	29	9†	45	1.65		0.65	0	6	19	5	7		Charles L. Ross.
De Beque	Mesa	4,935	2																	H. M. Quigley.
Delta	Delta	4,965	22	70.2	− 2.0	100	27	43	5†	52	0.56	− 0.36	0.16	0	6	23	6	2		E. M. Getts.
Dillon	Summit	8,800	2																	Harry T. Hamilton.
Durango	La Plata	6,534	17	64.5	− 1.8	88	9	44	8	44	2.57	+ 0.78	1.21	0	10	12	16	3	nw.	U. S. Weather Bureau.
Eureka	San Juan	10,000	5								0.81		0.21	0	5	12	0	19		San Juan W. & P. Co.
Fraser	Grand	8,560	3	49.6		76	26	24	23†	48	0.92		0.30	0	8	1	13	17	e.	L. D. C. Gaskill.
Fruita	Mesa	4,510	13	71.4	− 2.0	97	26	45	11	49	1.45	+ 0.28	1.09	0	6	21	10	0	se.	J. B. Willsea.
Glade Park	do	7,000	1								0.89		0.37	0	5	18	11	2	sw.	A. F. Terrill.
Gladstone	San Juan	10,400	5								2.78		0.45	0	14	2	17	12	ne.	San Juan W. & P. Co.
GlenwoodSprings(near)	Garfield	5,823	14	62.0	− 4.4	91	26	28	9	54	1.30	− 0.03	0.30	0	6	21	2	8	w.	E. A. O'Neil.
Grand Junction	Mesa	4,608	21	74.4	− 1.7	97	26	54	8	38	1.35	+ 0.31	0.91	0	8	19	9	3	se.	U. S. Weather Bureau.
Grand Lake	Grand	8,153	4								0.40		0.20	0	3	20	8	3	w.	Mrs. Belle Kauffman.
Grand Valley	Garfield	5,089	20	70.0	− 1.3	99	26	42	11†	55	1.30	+ 0.31	0.49	0	7	13	11	7		David Evans.
Gunnison	Gunnison	7,670	19	56.8	− 2.7	80	9†	32	9	48	1.12	− 0.21	0.54	0	6	17	9	5	sw.	Clarence Adams.
Hesperus (near)	La Plata	7,610									2.94		0.80	0	8	12	9	10		G. F. Snyder.
Horsefly	Montrose	8,700	2								1.21		0.83	0	2	21	7	3	sw.	Lawrence J. Finch.
Ironton	Ouray	10,000	2								1.52		0.70	0	5	6	16	9	sw.	Mrs. A. E. Foley.
Lake City	Hinsdale	8,686	7	59.0		80	26	36	8	40	1.44		0.41	0	15	11	14	6	s.	J. F. Maurer.
Lay	Moffat	6,190	18	62.6	− 3.0	90	26	35	8	48	2.22	+ 1.38	1.35	0	8	21	3	7		A. G. Wallihan.
Mancos	Montezuma	6,960	13	63.2	− 1.3	87	9	39	9	48	2.49	+ 0.04	0.64	0	9	18	11	2	w.	B. M. Krumpanitzky.
Marble	Gunnison	7,951	3	57.4		84	26	34	10	46	1.69		0.45	0	9	22	5	4	ne.	F. E. Morse.
Marshall Pass	Saguache	10,846	9								0.90		0.70	0	3	17	10	4		Wm. L. Williams.
Meeker (near)	Rio Blanca	6,182	20	60.4	− 3.8	85	9	33	20	46	1.75	+ 0.17	0.78	0	7	14	12	5		T. Baker.
Montrose	Montrose	5,811	23	69.0	− 1.7	92	9	45	8	44	1.18	− 0.16	0.54	0	6	26	3	2		U. S. Reclamation Service.
Nast	Pitkin	7,953	2	55.4		84	26	33	23†	47	0		0	0	0	25	5	1	w.	Arthur Hanthorn.
Pagoda	Routt	6,500	21																	Mrs. J. W. Scott.
Pagosa Springs	Archuleta	7,108	5	60.6		87	9†	31	9	56	1.42		0.54	0	7	13	16	2	sw.	E. T. Walker.
Palisades	Mesa	4,729	1	75.0		101[b]	26	50[b]	11	47[b]	0.91		0.60	0	4	16[b]	12[b]	1[b]		E. P. Updegraff.
Paonia	Delta	5,694	17	67.3	− 3.6	90	26	49	16	38	1.70	+ 0.50	0.38	0	9	17	13	1	sw.	J. M. Underwood.
Pitkin	Gunnison	9,500	3								1.31		0.65	0	5	24	2	5		Mrs. Maggie Cammann.
Pyramid	Rio Blanca		1	57.4		85	24	36	8†	48	1.39		0.26	0	6	19	12	0	w.	E. E. Egry.
Rangely	do	5,050	13																	J. H. McGuire.
Redcliff	Eagle	8,695	19																	Dorothea Greiner.
Redvale	Montrose										0.63		0.63	0	1	14	12	5	sw.	Dr. E. S. C. Foster.
Rico	Dolores	8,824	10								0.54	− 1.74	0.12	0	7	24	7	0	n.	Clinton B. Smith.
Rifle	Garfield	5,437		68.8		96	26	43	7	47	1.02		0.22	0	7	22	6	3	sw.	Herman Eiche.
River Portal	Montrose	6,570	6	68.2		92	11	45	9	46	1.35		0.69	0	9	19	6	6		U. S. Reclamation Service.
Sapinero (near)	Gunnison	8,125	9	55.8		80	26	34	22	42	1.04		0.24	0	9	23	2	6	w.	W. F. Irving.
Shoshone	Garfield	6,110	2																	Central Colorado Power Co.
Silverton (near)	San Juan	9,400	5	51.8		75	9†	23	25	51	2.24		0.75	0	7	20	4	7	sw.	San Juan W. & P. Co.
Spruce Lodge	Grand	9,600	4								2.03		0.50	0	11					H. J. Wills.
Steamboat Springs	Routt	6,683	9	57.4		89	26	29	24	57	3.24		0.84	0	11	18	11	2		Herbert B. Gee.
Tacoma	La Plata	7,300	5								2.85		0.92	0	8	0	20	11	n.	San Juan W. & P. Co.
Telluride	San Miguel	8,756		55.6		83	26	31	2†	50	2.68		1.06	0	11	22	6	3	w.	Wm. T. March.
Terminal Dam	La Plata	8,300	5								3.22		0.86	0	9	16	4	11	s.	San Juan W. & P. Co.
Uncompahgre Plateau	Montrose	8,400	2								1.18		0.48	0	5	20	11	0	sw.	Martin Esser.
Yampa (near)	Routt	8,000	3								1.51		0.67	0	5	10	16	5	w.	Percy A. Hughes.
Utah.																				
Aneth	San Juan	4,800	8	78.5		97	8†	51	19	37	0.30		0.13	0	5	24	6	1		H. R. Antes.
Bluff	do			76.9		98	8†	56	26	40	0.51		0.30	0	3	19	12	0		H. P. Raplee.
Boneta	Wasatch										0.86		0.41	0	5	18	0	13	s.	Oscar Wilkins.
Castle Dale	Emery	5,500	13	70.2	+ 2.4	93	27	44	30	38	2.10	+ 1.00	0.75	0	3	21	10	0		James Jeffs.
Cisco	Grand	4,447	12																	J. J. Anderson.
Dragon	Uinta			68.6		93	9†	45	19	45	1.11		0.47	0	5	17	5	9	s.	H. D. Ford.
Duchesne	Wasatch			65.4		91	9†	37	19	48	0.49		0.15	0	6	9	19	3		M. M. Smith.
Elkhorn	Uinta	6,657									1.64		0.45	0	8	10	21	0		Chas. De Moisy, jr.
Emery	Emery	6,200	11	64.0	− 1.9	88	24	37	11	41	1.00	− 0.57	0.70	0	2	6	4	21	sw.	H. C. Wickman.
Escalante	Garfield	5,700	9																	Geo. H. Barney.
Fisher Valley	Grand																			R. J. Saunders.
Fort Duchesne	Uinta	5,700	24	69.0	− 0.5	98	25	42	24	54	0.07	− 0.72	0.02	0	5	21	10	0	w.	G. W. Dickson.
Fruitland	Wasatch	7,625	1	64.8		88	24	35	31	42	1.21		0.43	0	6	12	15	4	sw.	J. Peter Naab.
Grayson	San Juan			69.2		89	17	50	17	39	1.17		0.75	0	6	19	10	2	sw.	E. F. Thompson.
Green River	Emery	4,080	12	75.3	− 1.6	101[b]	13	48[b]	24	52[b]	0.36	− 0.43	0.13	0	4	11[b]	18[b]	0[b]	sw.	Edgar E. Adams.
Hanksville	Wayne	4,200	1																	F. J. Weber.
Hite	Garfield	3,000	12	82.2	− 0.4	103	9	59	16†	39	0.14	− 0.58	0.12	0	2	19	9	3		John P. Hite.
Hurricane	Washington										1.20		0.50	0	5	8	12	11		Amos Workman.
Kanab	Kane	4,925	4	70.7		96	8†	47	18	43	2.17		1.10	0	6					V. A. Farming Assn.
La Sal	San Juan	7,000	9	64.6[d]		85[d]	9	46[d]	19†	33[d]	0.25		0.08	0	4	11[e]	13[e]	4[e]		Gertrude W. Carpenter.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Utah—Continued.																				
Leeds	Washington										1.37		0.60	0	4	24	1	6		B. F. Anderson.
Loa	Wayne	7,000	18																	W. S. McClellan.
Manila	Uinta	6,225		62.5		90	9†	35	19	52	0.76		0.31	0	5	11	19	1		Daniel M. Nelson.
Moab	Grand	4,000	22	75.5	+ 0.3	102	25	48	20†	50	0.30	− 0.42	0.13	0	4	14	10	7		Henry Crouse.
Monticello	San Juan	7,545	3																	Geo. F. Barton.
New Harmony	Washington																			Geo. F. Prince.
Orderville	Kane	6,660									1.72		0.90	0	6					F. A. Porter.
Pine Valley	Washington	6,000									2.59		0.66	0	6	18	9	4	s.	Mason Gardner.
Price	Carbon	5,557	1	71.5		96	25	43	31	46	0.33		0.30	0	2	28	2	1	se.	R. H. Thompson.
Ranch	Kane	6,700	9	59.5		88	22	34	19	46	1.30		1.30	0	1	19	9	3	w.	J. W. Seaman.
San Rafael	Emery																			W. C. Foy.
St. George	Washington	2,880	25	76.4	− 4.4	103	23	50	6	51	0.98	+ 0.19	0.54	0	5	17	8	6		A. B. Ballantyne.
Scofield	Carbon	7,625	2	56.0		84	24	29	8	51	1.22		0.33	0	8	21	3	7	s.	B. Newren.
Springdale	Washington	3,500	4																	Hattie Wood.
Strawberry Tunnel, East.				52.1		80	9†	25	19	54	0.84		0.44	0	4	21	4	6		U. S. Reclamation Service.
Teasdale	Wayne	7,000	2	60.8		81	10	40	2†	37	0.21		0.09	0	4	12	8	11	w.	Henry Cullum.
Thompsons	Grand	5,150	1	75.2		95	26	56	6	32[a]	0.18		0.08	0	3	18	12	1	sw.	A. M. Starmont.
Tropic	Garfield	7,000	15	66.4	+ 1.8	91	12	42	16	47	1.28	− 0.49	0.90	0	4	14	12	5	nw.	E. P. Bolton.
Troutcreek Ranger	Uinta	9,200									2.97		0.55	0	14	6	14	11	sw.	Forest Supervisor.
Vernal	do	5,050	15	66.2	− 3.6	93	9†	41	19†	51	0.63	− 0.11	0.22	0	8	23	8	0		S. P. Trim.
Victor	Emery										0.11		0.10	0	2					F. F. Noyes.
White Rocks	Uinta										1.76		0.78	0	7	16	11	4		C. F. Keil.
Woodside	Emery	4,645	1	72.8		98	12	46	31	49	0.61		0.35	0	3	20	3	8	s.	D. P. Adams.
New Mexico.																				
Alma	Socorro	5,500	15	71.2	− 1.1	95	9	50	2†	45	2.39	− 0.49	0.70	0	10	3	25	3	sw.	M. A. Balke.
Aragon	do		5	64.8		89	8	46	1†	42	0.65		0.45	0	3	5	25	1		J. R. Milligan.
Aztec	San Juan	5,590	12								2.05	+ 0.90	0.74	0	5	16	13	2	sw.	Dr. T. J. West.
Berger's Ranch	McKinley	8,000		60.8		85	2†	36	8	48	3.44		0.77	0	13	11	9	11	w.	Herman Berger.
Blackrock	do	6,500	3	64.8		89	7	40	31	34	1.26		0.53	0	10	16	7	8	e.	D. Blackwater.
Bloomfield	San Juan	5,500	17	72.4	− 0.6	97	26	47	7†	48	1.21	− 0.05	0.45	0	8	9	22	0	sw.	F. LeClerc.
Cambray	Luna	4,215	13								5.58	+ 3.92	2.20	0	14	0	21	10	w.	Agent Southern Pacific Ry.
Cliff	Grant	4,470	12	76.8	− 0.1	100	8	54	24	35	1.50	− 0.99	0.60	0	5					W. C. Belden.
Columbus	Luna	4,054	3			100	2†	61	25		5.37		1.23	0	12	10	9	12	nw.	Agent E. P. & S. W. Ry.
Deming	do	4,333	35	78.8		100	11	60	19†	32	4.04	+ 2.11	1.60	0	7	20	1	10	w.	Agent Southern Pacific Ry.
Dulce	Rio Arriba	6,756	15	63.8[d]	+ 0.2	89[d]	9	34[e]	9	55[e]	2.30	+ 0.20	0.90	0	5	21	6	4	sw.	Wm. R. Beyer.
Fort Bayard	Grant	6,152	37	68.6	− 2.6	91	9	48	15	34	4.47	+ 1.58	1.20	0	14	18	10	3	w.	U. S. General Hospital.
Fruitland	San Juan	4,800	18	70.6	− 2.1	93	9	45	8	45	0.60	− 0.03	0.60	0	2	20	11	0	sw.	C. J. Collyer.
Gage	Luna	4,486	12			99†					3.26	+ 1.67	0.90	0	8	1	30	0	w.	Agent Southern Pacific Ry.
Gila Planting Station	Grant	6,475	1	67.2		88	8†	50	15	31	5.97		1.84	0	12	11	15	5	se.	U. S. Forest Service.
G. O. S. Ranch	do	8,000		69.0		94	9†	46	7†	46	2.76		0.68	0	11	5	15	11	e.	Victor Culberson.
Hachita	do	4,504	3			100	1†	62	21†		4.46		1.12	0	11	13	15	3	w.	Agent E. P. & S. W. Ry.
Haynes	Rio Arriba	6,600	1	66.8		90	9†	40	9	50	2.00		1.05	0	3	17	7	7	nw.	Dr. J. R. Haynes.
Hermanes	Luna	4,451	3			98	9	60	31		3.58		1.25	0	7	13	13	5	w.	Agent E. P. & S. W. Ry.
Lordsburg	Grant	4,245	29	74.7	− 5.4	100	10	51	19	41	2.14	+ 0.03	1.55	0	4	3	23	5	e.	J. H. McClure.
Luna	Socorro	7,300	7	60.4		85	9	35	21	45	1.52	− 1.39	0.28	0	10	4	26	1	s.	C. B. Martin.
Mimbres	Grant	5,007	7								3.95		0.88	0	12	10	21	0		C. Dennis.
Pinos Altos (near)	do	7,253	1								5.42		1.47	0	15	4	26	1	se.	O. L. Scott.
Pratt	do	4,415	3			101	2	58	22		2.73		1.15	0	6	10	14	7	w.	Agent E. P. & S. W. Ry.
Putnam	San Juan	6,200		72.2[i]		97[i]	10	48[i]	19	44[i]	0.30		0.30	0	1	12[i]	1[i]	9[i]	w.	C. F. Spader.
Redrock	Grant	4,150	7								2.47		0.56	0	9	8	13	10		Robt. H. Woods.
Rodeo	do	4,118	3			100	1†	60	22		2.23		0.98	0	5	5	25	1		Agent E. P. & S. W. Ry.
Silver City	do	5,860	1	70.8		94	6	51	22	36	1.28		0.60	0	11	10	17	4		E. M. Brumback.
Arizona.																				
Allaires Ranch	Cochise	4,184	16								1.45	− 1.47	0.68	0	8	19	12	0		Thomas Allaire.
Alpine	Apache	8,500	3	57.2		86	8	37	12†	45	4.15		1.41	0	16	6	12	13	s.	U. S. Forest Service.
Aztec	Yuma	492	14	91.0	− 3.6	115	8†	68	18	40	1.11	+ 0.66	0.59	0	2	23	2	6	s.	Agent Southern Pacific Ry.
Benson	Cochise	3,523	32	76.6	− 5.0	98	3†	58	18	34	2.46	+ 0.22	1.00	0	11	5	4	22	se.	Do.
Bisbee	do	5,500	22	70.0	− 2.7	90	6†	52	18	27	10.15	+ 5.32	2.57	0	10	8	8	15	w.	Rev. J. G. Pritchard.
Blue	Greenlee	6,000	1								1.80		0.89	0	6	9	22	0	s.	Mary A. Jones.
Bonita	Graham	4,916	39								3.22	+ 0.38	2.50	0	5				w.	A. H. Jelley.
Bowie	Cochise	3,756	36	76.0	− 2.6	103	7	52	15†	49	2.88	+ 0.10	0.80	0	7	13	0	18		Agent Southern Pacific Ry.
Buckeye	Maricopa	980	19	87.1	− 0.4	112	7	64	19	45	0.65	− 0.21	0.28	0	5	24	4	3	sw.	H. E. Kell.
Canille	Santa Cruz	5,225	3								5.13		1.84	0	15	1	27	3	se.	Robt. A. Rodgers.
Casa Grande	Pinal	1,396	30			110	4†				0.66	− 0.32	0.23	0	7	17	5	9		Agent Southern Pacific Ry.
Casa Grande Ruins	do	1,422	4	85.2		110	8	65	8†	45	1.39		0.75	0	6	11	13	7	sw.	Frank Pinkley.
Cavecreek	Maricopa	1,520	5																	E. A. Howard.
Chin Lee	Apache	6,090	4	70.6		96	5	45	17†	50	1.77		0.70	0	5	2	18	11	sw.	Rev. L. Ostermann, O. F. M.
Chlarsons Mill	Graham	8,000	6																	Hiram R. Chlarson.
Clifton	Greenlee	3,584	4	82.5		104	8†	58	29	37	1.10		0.46	0	6	18	12	1		Arizona & N. Mex. Ry. Co.
Cline	Gila	2,300	12			101	7†				3.58	+ 1.24	1.80	0	5	8	21	2	sw.	W. M. Clanton.
Cochise	Cochise	4,219	14	75.2	− 4.3	100	9	48	27	46	2.20	+ 0.09	0.40	0	6	15	0	16	s.	Agent Southern Pacific Ry.
Columbia	Yavapai	1,900	11	87.3	+ 1.0	110	8	70	13†	32	1.63	− 0.44	0.60	0	6	22	7	2	s.	M. J. Nolan.
Courtland	Cochise	4,543	3								4.93		1.55	0	8	4	27	0		Agent E. P. & S. W. R. R.
Dos Cabezos	do	5,250	4	71.0		93	9	52	8†	40[a]	3.06		2.00	0	4	8	15	8	w.	Neil Erickson.
Douglas	do	3,930	9	78.0		107	4	56	12	47	4.17		2.07	0	16	9	15	7	sw.	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	21	76.9	− 5.3	96	9†	59	8	35	2.80	+ 0.30	0.81	0	13	4	18	9	sw.	Geo. F. Cook.
Fairbank	Cochise	3,562	3								2.32		0.80	0	9	4	12	15	sw.	Agent E. P. & S. W. R. R.
Flagstaff	Coconino	6,907	21	61.2	− 1.6	82	8	40	15	39	0.61	− 2.69	0.29	0	7	13	15	3	w.	U. S. Weather Bureau.
Flagstaff (1)	do	7,500	3	58.6		83	8	32	19	46	0.74		0.41	0	8	15	13	3	sw.	U. S. Forest Service.
Florence	Pinal	1,504	13			108	3†				0.70	− 1.11	0.70	0	1	22	0	9		Agent Arizona Eastern R. R.
Fort Apache	Navajo	5,200	41	71.2	+ 3.2	100	9	50	15	46	3.81	+ 0.72	1.39	0	10	11	17	3	sw.	Post Surgeon, U. S. Army.
Fort Huachuca	Cochise	5,100	25	74.0	0.0	99	8	57	17†	31	6.60	+ 2.34	1.30	0	12	13	0	18	sw.	Do.
Fort Mojave	Mohave	604	40	87.1	− 5.7	113	7†	66	20	45[c]	T.	− 0.66	T.	0	0	22	6	3	se.	August F. Duclos.
Gilabend	Maricopa	737	22	88.6	− 3.2	116	7	60	1	50	2.68	+ 1.69	1.07	0	5	24	4	3	s.	Agent Southern Pacific Ry.
Globe	Gila	3,525	10	78.4	− 1.8	101	8	60	20	37	2.60	− 0.01	0.70	0	12	7	21	3	nw.	B. G. Fox, M. D.
Grand Canyon	Coconino	6,866	7	63.0		86	7	40	24	35[a]	T.		T.	0	0	29	2	0	sw.	Agent Grand Canyon R. R.
Grand Canyon (1)	do	3,676	5	80.1		100	8	60	2	34	0.33		0.15	0	4	10	15	6	n.	B. W. Zachau.
Granite Reef Dam	Maricopa	1,372	22	86.4	− 2.1	109	8	67	24	37	2.12	+ 0.71	1.43	0	7	19	10	2	w.	U. S. Reclamation Service.
Greer	Apache	9,200	7								3.88		0.80	0	12					U. S. Forest Service.
Heber	Navajo																			F. W. Bragg.
Hereford	Cochise	4,180	3								4.50		1.50	0	6	5	16	10		Agent E. P. & S. W. R. R.
Holbrook	Navajo	5,069	21	75.5	+ 0.5	100	1	53	11†	44	1.72	+ 0.30	0.93	0	5	21	3	7	sw.	Thorwald Larson.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***Arizona*—Continued.**																				
Indian Oasis	Pima	3,000	2																	Joseph Menager.
Intake	Gila	2,230	7								1.40		0.75	0	2	14	1	16	e.	U. S. Reclamation Service.
Jerome	Yavapai	4,743	14	75.6	− 1.4	95	8†	58	1	27	1.36	− 2.28	0.73	0	3	18	13	0	s.	Dr. L. A. Hawkins.
Keams Canyon	Navajo	6,600	7	68.3		89	7†	48	7†	41	0.83		0.55	0	4	19	12	0	w.	David E. Livesay.
Kingman	Mohave	3,326	11	78.7	− 2.5	105	8	55	4†	44	0.57	− 1.41	0.32	0	2	23	0	8	s.	Agent A., T. & S. F. Ry.
Lakeside	Navajo	6,500	7	64.0		85	8†	44	20	39	2.34		0.62	0	7	7	4	20	sw.	Prof. Joseph Peterson.
Lewis Springs	Cochise	4,029	3								4.11		1.59	0	10	6	2	23		Agent E. P. & S. W. R. R.
Lowell Observatory	Coconino	7,180	1								0.62		0.25	0	6					Vesto M. Slipher.
McNeal	Cochise	4,150	2								3.85		1.40	0	15	5	20	6	sw.	Miles McNeal.
Maricopa	Pinal	1,186	36	89.2	− 2.7	117	8	67	15	48	1.41	+ 0.39	0.73	0	3	23	7	1	w.	Agent So. Pac. Ry.
Mesa	Maricopa	1,244	17	83.5	− 3.8	106	7†	62	19	38	1.33	− 0.15	1.00	0	5	7	21	3	sw.	C. L. Diehl.
Mohawk Summit	Yuma	538	13	92.9	− 1.2	116	3†	71	28	44	0.48	− 0.43	0.45	0	2	21	3	7	w.	Agent So. Pac. Ry.
Naco	Cochise	4,579	3								4.52		1.05	0	12	9	13	9	w.	Agent E. P. & S. W. R. R.
Natural Bridge	Gila	4,990	23								5.53	+ 2.27	1.23	0	8	13	13	5	sw.	D. G. Goodfellow.
Oracle	Pinal	4,500	21								3.81	+ 2.85	1.95	0	5					J. W. Lawson.
Osborn	Cochise	4,676	3								5.49		2.35	0	10	1	11	19		Agent E. P. & S. W. R. R.
Paradise	....do	5,436	5	67.4		93	11	44	24	42	4.24		1.75	0	12	0	21	10	nw.	J. C. Hancock.
Parker	Yuma	345	13	87.3	− 4.2	115	7	60	17	43	0.95	+ 0.07	0.80	0	4	25	4	2	sw.	M. A. Israel, M. D.
Payson	Gila	5,550	4																	Mart McDonald.
Phoenix	Maricopa	1,108	17	86.2	− 2.8	108	7	69	15	36	0.72	− 0.24	0.51	0	4	18	10	3	e.	U. S. Weather Bureau.
Phoenix (1)	....do	1,092	21	85.6	− 2.1	109	4†	65	7†	44	0.84	− 0.21	0.40	0	5	23	5	3	sw.	Geo. Acuff.
Phoenix (2)	....do	1,189	4	84.8		105	8	67	15	36	2.25		1.16	0	5	19	3	9	sw.	Salt River Valley Nurseries.
Pinal Ranch	Pinal	4,520	18								4.64	+ 1.30	2.01	0	6					Irion & Craig.
Pinto	Apache	5,660	8								1.17		0.42	0	5	14	16	1	sw.	Mrs. Celia F. Henning.
Prescott	Yavapai	5,320	44	67.5	− 3.6	91	8†	48	1†	39	2.21	− 0.97	1.00	0	8	21	9	1		John W. Flinn, M. D.
Quartzsite	Yuma	800	5	89.0		115	8	65	18†	45	1.61		1.06	0	2	20	8	3	sw.	W. E. Scott.
Redrock	Pinal	1,864	4																	W. J. Crowell.
Rice	Gila	2,665																		Arthur Pritchard.
Roosevelt	....do	2,175	8	86.2		106	8	69	30†	32	2.18		1.20	0	5	7	23	1	w.	U. S. Reclamation Service.
Sacaton	Pinal	1,280	5	85.6		113	8	65	15†	41	1.02		0.32	0	5					E. W. Hudson.
St. Johns	Apache	5,650	8	68.8		95	9	47	22	43[a]	2.62		1.10	0	5	6	14	11	w.	Alex. Shreeve.
St. Michaels	....do	6,950	25	67.1	− 0.2	90	8	47	21	41	1.11	− 1.38	0.55	0	5	9	12	10	sw.	Rev. A. Weber, O. F.
Salome	Yuma	1,875	5	82.3		107	5†	53	14	49	0.07		0.07	0	1	18	11	2	s.	Mrs. M. B. Swartz.
San Simon	Cochise	3,609	28																	Agent So. Pac. Ry.
Seligman	Yavapai	5,219	7	68.9		105	26	44	16†	47	T.		T.	0	0	19	0	12	sw.	Librarian, A., T. & S. F. Ry.
Sentinel	Maricopa	685	14	87.2	− 6.0	113	4†	63	12	41	2.53	+ 2.13	1.58	0	3	20	4	7	sw.	Agent So. Pac. Ry.
Silverbell	Pima	2,650	7	85.2		105	2†	65	13	33	1.25		0.50	0	3	20	0	11	s.	Imperial Copper Co.
Snowflake	Navajo	5,644	5	67.4		95	7	41	7	54	2.13		1.30	0	5	4	14	13	sw.	William J. Flake.
Springerville	Apache	6,862	2	62.5		86	9	44	21	38	2.91		0.72	0	14	10	9	12	sw.	U. S. Forest Service.
Supai	Coconino	3,200	6	80.4		104	8	54	1	43[b]	0.89		0.48	0	5					Laura B. Symons.
Tempe	Maricopa	1,165	8	85.8		110	4	66	15	41	1.85		0.56	0	4	16	11	4	se.	F. H. Simmons.
Thatcher	Graham	2,800	9	80.2		106	6†	50	16	48	1.15		0.76	0	5	7	22	2	w.	Prof. J. H. Larson.
Tombstone	Cochise	4,550	18	75.4	− 0.6	98	8†	57	30	32	2.05	− 1.76	0.78	0	7	8	21	2		F. N. Walcott.
Truxton	Mohave	3,947	3	76.0		98	5†	40	2	53	2.19		1.55	0	5	28	0	3		Truxton Canyon Ind. School.
Tuba	Coconino	4,500	13	74.2	− 0.9	98	9†	53	15	41[a]	0.35	− 0.45	0.23	0	3	18	4	9	sw.	H. P. Marble.
Tucson	Pima	2,390	32	82.6	− 2.7	106	8	64	7	41	0.96	− 1.46	0.33	0	9	5	24	2	nw.	University of Arizona.
Tucson (1)	....do	2,380	4	80.6		106	8	58	7†	48[a]	1.09		0.26	0	10	8	16	7	w.	James F. Record.
Tucson (2)	....do	2,526	1	81.1		104	8	61	7†	43	1.56		0.55	0	10	15	5	11	w.	U. S. Coast & Geodetic Surv.
Vail	....do	3,421	13			101	8†				2.32	+ 1.10	1.70	0	3	12	15	4		Agent So. Pac. Ry.
Walnut Grove	Yavapai	3,649	20								1.67	− 0.49	0.53	0	5					J. O. Carter.
Wickenburg	Maricopa	2,072	13																	Agent S. F. P. & P. Ry.
Willcox	Cochise	4,164	32	74.1	− 4.3	98	6†	50	11	43	1.96	− 0.52	0.80	0	6	0	19	12	s.	Agent So. Pac. Ry.
Williams	Coconino	6,750	12	65.2	− 1.4	88	22	40	2	41	1.96	− 0.80	0.55	0	5	20	11	0		E. J. Nordyke.
Winslow	Navajo	4,853	4																	John F. Bauer.
Yarnell	Yavapai	4,700	12																	E. L. Bartholomew.
Yuma	Yuma	141	32	88.8	− 1.3	113	6	66	19	42	0.14	− 0.21	0.10	0	2	27	4	0	sw.	U. S. Weather Bureau.
Yuma (1)	....do	150	5	82.6		108	6	55	19	48	0.17		0.09	0	3	25	5	1	s.	E. L. Crane.
Nevada.																				
Caliente	Lincoln	4,407	2	75.4		100	23	42	18†	53	0.00		0.00	0	0	31	0	0	se.	Salt Lake Route.
Logan	Clark	1,355	5	82.6		108	8	55	17†	48	0.00		0.00	0	0	31	0	0	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 August, 1912. District No. 9, Colorado Valley.*

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Battle Mountain	Snake																																
Bigpiney	Green	.24		.10											.22		.10	.25										.50	T.				1.41
Daniel	do			.35	T.												.21	.60	.40									T.	T.				1.56
Eden	do	.25		.01		T.		.01							T.	.04		.41	.11									.03	.09				0.95
Green River	do	.64		.24													T.	T.	.30	.04								.09	.02	T.	.13		1.46
Pinedale	do	.36		.32																													0.68
Rambler	Snake																																
Willow Creek Cabin	Green																																
Colorado.																																	
Ashcroft	Grand	.05												.02	.33	.25	.11	.02	.01									.02	.03	.21	.09	.03	1.17
Breckenridge	do																																
Buford	White																.80	.25											.16	.36	.34		1.91
Cascade	San Juan												.13	.14	.66	.61	.01	.36										.05	.01	.03	.54	.12	2.66
Cedaredge	Gunnison																																
Chromo	San Juan		.15																T.	1.00				.20	.10			.10	.30				1.85
Cochetopa	Gunnison					.02								.20	.30	.10	.36													.26	.20		1.44
Collbran	Grand	.06													T.	.43	.19	.02										.20	.55	.16	.56	.05	2.22
Columbine	Yampa	.48			.09						.07	.05				.35	.07											.30	.20	.37	.43		2.41
Columbine Ranch	Gunnison	.25												.17	.90	.12	T.											.30	T.	.19	.22	T.	2.15
Corona ‖	Grand	.32	.14						.14							.22	.22													.32	.28		1.64
Cortez	San Juan																																
Craig	Yampa																																
Crawford (near)	Gunnison	.08													.15	.56	.13	.02									.01	.20		.05	.28	.02	1.50
Crested Butte	do							T.						T.	.65	.20	.10	.08												.30	.32		1.65
De Beque	Grand																																
Delta	Gunnison													.03	.11	.16	.14	T.										.09		.03	T.		0.56
Dillon	Grand																																
Durango	San Juan												T.	.55	.66	.35	.01	.14									.01	.03		.03	.59	.20	2.57
Eureka	do													.15	.21	.13											.13				.19		0.81
Fraser ‖	Grand	.02					.04	.11							.05	.30		.22										T.	.16	.02		T.	0.92
Fruita	do	.12												T.		1.09	.11	.05										.05	T.	.03	T.		1.45
Glade Park	do	.08												T.		.37	.13	T.										T.	.07	.24	T.		0.89
Gladstone	San Juan			.04	.07	.03	.01	T.	.05	.03				.30	.45	.39	.37	.45											.09	.19	.31		2.78
Glenwood Springs (near).	Grand	.20													T.	.20	.30											.30		.10	.20		1.30
Grand Junction	do													.06	.15	.76	.02	.05										.21	T.	.04	.06	T.	1.35
Grandlake	do					T.									T.														T.	.20	.10	.10	0.40
Grand Valley	do	.09						T.						T.	T.	.49	.43	.02										.06		.09	.12	T.	1.30
Gunnison	Gunnison	T.		T.										.05	.54	.20	.05											T.			.27	.01	1.12
Hesperus (near)	La Plata	.23												.40	.80	.25		.11										.10			.50	.55	2.94
Horsefly	Gunnison													T.		T.	T.	T.									T.		T.	.38	.83	T.	1.21
Ironton	do					T.							T.	T.	.25	T.	.12	.70			T.						T.	T.	.25	.20	T.		1.52
Lake City	do	.13											.02	.17	.41	.01	.01	.10	.01	.11	.03							.03	.02	.04	.32	.03	1.44
Lay	Yampa	.11	.06	.01												1.35	.02	T.									T.	.10		.18	.39		2.22
Mancos	San Juan													.07	.25	.61	.12					.32							.02	.03	.64	.43	2.49
Marble	Grand	.27					.05								.14	.45	.08	T.										.24		.21	.20	.05	1.69
Marshall Pass	Gunnison															.20	.30	.40															0.90
Meeker (near)	White	.36	.05													.78	.08										.06	T.	.04	T.	.38		1.75
Montrose	Gunnison														.03	.54	.03											.29		.03	.26		1.18
Nast	Grand																																0
Pagoda	Yampa																																
Pagosa Springs	San Juan													.04	.54	.41		.06				T.				.09		T.		T.	.17	.11	1.42
Palisades	Grand			T.											T.	.08	.60											.09		T.	.14		0.91
Paonia	Gunnison	.36													.05	.38	.36	.05	T.									.32		.04	.09	.05	1.70
Pitkin	do														.65		.30	.14												.13	.09		1.31
Pyramid	Yampa	.26														.26												.17	.23	.25	.22		1.39
Rangely	White																																
Redcliff	Grand																																
Redvale	San Miguel														.63			T.									T.		T.				0.63
Rico	Dolores												.05		.09			.03	.12				.08		.12						.05		0.54
Rifle	Grand	.07													T.	.19	.05	T.										.20	.22	.11	.18		1.02
River Portal	Gunnison	.14												.01	.14	.07	.08	.06									T.	.13			.69	.03	1.35
Sapinero (near)	do	.03	T.			T.								T.	.24	.16	.10	.11									T.	.12	.01	.10	.17	T.	1.04
Shoshone	Grand																																
Silverton (near)	San Juan												.20	.10	.35	.34		.75												.18	.32		2.24
Spruce Lodge	Grand	.50						.12	.15					.15	.08	.34	.10	.22											.18	.15	.04		2.03
Steamboat Springs	Yampa	.84														.12	.24	.12	.01								.18	.02	.80	.11	.60	.20	3.24
Tacoma	San Juan													.26	.92	.82		.20								.04		.06			.52	.03	2.85
Telluride	San Miguel	.04											.10	.02	.14	.38	.13	.26										.05		.05	.45	1.06	2.68
Terminal Dam	San Juan		.08											.25	.86	.39		.33	.15							.05					.79	.32	3.22
Uncompahgre Plateau	Gunnison															.48											.32		.08	.06	.24		1.18
Yampa (near)	Yampa	.17	.12					T.								.67		T.										T.		.23	.32		1.51
Utah.																																	
Aneth	San Juan													.05	.03			.05													.04	.13	0.30
Bluff	do														.30												.17			.04			0.51
Boneta	Green	.12													.05			.22									.06			.41			0.86
Castle Dale	do														.75												.75		.60				2.10
Cisco	Grand																																
agon	Green	.18														T.	.03		T.							T.		.27	.16	.47			1.11
uchesne	do	.15													.08		T.	.08	.01									T.		.11	.06		0.49
lkhorn	do	.45														.35		.20				.06					.10	.10	.06	.32			1.64
E ery	Colorado																								.70			.30					1.00
Escalante	do																																
Fisher Valley	Grand																																
Fort Duchesne	Green	.02														T.		T.	.01									.01	T.	.01	.02		0.07
Fruitland	do	.11		.16										.43	.03	.22														.26			1.21
Grayson	San Juan	.02												.15	.75	.10												.10			.05		1.17
Green River	Green															.13												.09		.12	.02		0.36
Hanksville	Colorado																																
Hite	do														T.	.12	T.	T.									T.	T.	T.	T.	.02	T.	0.14
Hurricane	do					.15										.50													.20	.25	.10		1.20
Kanab	do													.21												.02	T.	.16	.25	1.10	.43		2.17
LaSal	Grand													T.	.08	.02										T.			T.	.07	.08		0.25
Leeds	Colorado	.12													.55												.60		.10				1.37
oa	do																																
Manila	Green	.19		.10														.05	.31											.11			0.76
Moab	Grand													T.		.08											.03	T.	.13	.06			0.30
Monticello	do																																

TABLE 2.—*Daily precipitation for August, 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	
Utah—Continued.																																	
New Harmony	Colorado																																
Orderville	do		.07												.24												.23	.01		.90	.27		1.72
Pine Valley	do	.66	.52									T.	.35														.23	.42		T.	.41		2.59
Price	Green																										.03	.30					0.33
Ranch	Colorado												T.	T.	T.														T.	1.30			1.30
San Rafael	Green																																
St. George	Colorado		.54												.10												.08			.17	.09		0.98
Scofield	Green	.31	.10							T.					.33	.06		.21										.05	.07	.09			1.22
Springdale	Colorado																																
Strawberry Tunnel—East	Green	.03	.22												T.	.15		T.												.44			0.84
Teasdale	Colorado														.03	.05					T.	T.							.09	.04			0.21
Thompsons	Green													T.		.08	.05											T.		T.	.05		0.18
Tropic	Colorado			.13												T.	.17											.08	T.	.90	T.		1.28
Troutcreek	Green	.37				.11	.05						.22		.40	.30	.01	.15	.15						.01	.15		.55	.20	.30			2.97
Ranger	do																																
Vernal	do	.13		.03												.22		.02	.01									.10		.09			0.63
Victor	do										.01																	.10					0.11
White Rocks	do	.78														.13		.05	.50									.02		.10	.18		1.76
Woodside	do	.35																										.16	T.	.10	T.		0.61
New Mexico.																																	
Alma	Gila			.70	T.	.30					.05	T.	T.	T.			.25			.20	T.	T.	.30		.05	.10		T.	T.		.41	.03	2.39
Aragon	do			.10	T.							.45					T.				T.	T.			T.			.10					0.65
Aztec	San Juan	T.												.14	.74	T.						T.					.02				.46	.69	2.05
Berger's Ranch	Little Colo				T.							.20	.08	.77	.22	.28	.34	.13		.03		.41			.02		.28	.20		T.	.42		3.44
Blackrock	do					.01						.01		.02	.53		.01			.01							.34	.04		.11	.18		1.26
Bloomfield	San Juan	T.												.43	.38	.02	.01	.01	T.			T.		T.	T.		.02	T.	T.	T.	.14	.18	1.21
Cambray	Mimbres		.10	.25	.04								.03	.72	.28	.97	.03				.14			.75	.04	.01		2.20		.02			5.58
Cliff	Gila				T.									T.		.10	T.		T.	.10		T.			.10				.60	T.	.60		1.50
Columbus	do		27		T.						1.23		.05		.25		.17		1.02	.08	.98			.55				.06		.06		.65	5.37
Deming	Mimbres													.15		.75	.30		.30		.10			.84						1.60			4.04
Dulce	San Juan													.90	.40	.42		.20													.38		2.30
Fort Bayard	Mimbres		T.	*	.41	.35	T.					T.	T.	.03		.60	.38			.50	.32	.05			.25			T.	.31	.01	*	1.20	4.47
Fruitland	San Juan													*	.60			T.													T.		0.60
Gage	Mimbres					.20					.25		.10		.21				.60		.30			.90						.70			3.26
Gila Planting Sta'n	do				1.24	.03						T.	.02	T.		1.13	.49	T.		.87	.06	.06	T.		1.21			T.	.02	T.	1.48	.36	5.97
G. O. S. Ranch	Gila		T.	.51	.34	.02					T.	.13	.48	.02		.07	.12			.11	.28			.68									2.76
Hachita	do										.10	.60		.30		.52				.57	1.12			.09	.24	T.		.22			.15	.55	4.46
Haynes	San Juan														.80		.15														1.05		2.00
Hermanes	Gila		T.	T.									.28	T.	.05	.80			T.			.40		.65					1.25	.15			3.58
Lordsburg	do											T.		.04		.30				.25				1.55									2.14
Luna	do			T.			T.				.14	.09	T.	.07	.22	.04		T.	T.			.13				.22		.22	T.	.11	.28	T.	1.52
Mimbres	Mimbres			.62	.06	.22							.12				.06			.88		.13			.06	.29			.05		.74	.12	3.95
Pinos Altos (near)	Gila				.23	.79	.04					.03		.15		.03		.60	.08	.42	.04	.03			.91	.60					*	1.47	5.42
Pratt	do					.15						.28			.70				1.15						.40	T.		.05		T.	T.		2.73
Putnam	do																	.30															0.30
Redrock	do					.30	.05						.03	.45			.25		.45				.14	.24			T.			.50			2.47
Rodeo	do				T.								.40			.20			.25									.98				.40	2.23
Silver City	Mimbres			.08	.16	T.						.02		.05	.07	T.	T.			T.	.02	.02		.14	.10	T.	T.	T.	T.	.60	.02		1.28
Arizona.																																	
Allaires Ranch ‖	Sonora											.07					.08		.25					.14		.68	.01	.07	T.	.15			1.45
Alpine	Gila			.21	.06						.05	.22	.01	.15	.37		.70	.15			.32					.06		.35	.07	.01	1.41	.01	4.15
Aztec	do												.52															.59					1.11
Benson	San Pedro						.12						T.	.55			.10	.05	.04					1.00	.17		.05	.18	.05		.15		2.46
Bisbee	do				.09								1.91	.15	.01			.03	2.57	1.83							1.61	.06			1.89		10.15
Blue	Gila						.10				.11	.05																.25			.89		1.80
Bonita	do							.10						.32									.20		T.					2.50		.10	3.22
Bowie	do													.35			.50							.80		.20	.28		.55		.20		2.88
Buckeye ‖	do										.03	.06											T.	.23			.05	.28	T.		T.		0.65
Canille	San Pedro				T.					T.	.15	1.84	.04	T.	.03		.40	.05	.14	.11		T.		T.	.15	.74	.67	.22	T.	.43	.09	.01	5.13
Casa Grande	Gila										.03	.06	.21	.02														.12			.20		0.66
Casa Grande Ruins	do				.04						T.		.05	.10			T.						T.				T.		.25		.20	.75	1.39
Cavecreek	Verde																																
Chin Lee	San Juan													T.	.70	.01	T.					.12				T.	T.	.65		T.	T.	.29	1.77
Chlarsons Mill	Gila																																
Clifton	do					.14								T.	.46		.02			.02		.03		.43							T.		1.10
Cline	Salt												.24	.36														.58			.60	1.80	3.58
Cochise	Desert													.45					.80					.30				.10		.15	.40		2.20
Columbia	Agua Fria													.13	.60									.50	.15			.15	.10				1.63
Courtland	White			.38								.50	.04	.08			.77						.12			1.55				1.49			4.93
Dos Cabezos	Desert															.55												2.00			.45	.06	3.06
Douglas	Sonora			.01	.01						T.		2.07	.18	.27	.03			.37	.03	.16			.04	.05		.47	.02	.42	.02		.02	4.17
Dudleyville	Gila			.10	T.								.02	.14	.12		T.		T.	.06	.05				.15	.49	T.	.68	.02	.12	.04	.81	2.80
Fairbank	San Pedro												.10	.53									.80	.10		.10	.30	.14	.10		.15		2.32
Flagstaff	Little Colo												.06	.07	.06					T.	.05	T.		T.	.29			T.	.04	T.	.04		0.61
Flagstaff (1) ‖	do	.12												.04	.06	T.						T.	.03		.02	.41		T.	.01	.05	T.	T.	0.74
Florence ‖	Gila																													.70			0.70
Fort Apache	Salt			.09								.06	.12		.64	.06							.02			1.39		T.	.19		.35	.89	3.81
Fort Huachuca	San Pedro											T.	1.20	.10			.80	T.	.40	.10				.50	.20	.20	1.20	.50	T.	.10	1.30	T.	6.60
Fort Mojave	Colorado																													T.			T.
Gilabend ‖	Gila											.70	.56											.17				1.07	.18				2.68
Globe	Salt				.02							.59	.05	.12	.14					.07						.31	.07	.43	.02		.08	.70	2.60
Grand Canyon	Colorado													T.														T.					T.
Grand Canyon (1)	do														.03												.15				.03	.12	0.33
Granite Reef Dam	Salt												T.	.08									.04	.37				1.43	.17		.02	.01	2.12
Greer	Little Colo	.15		.12	.26							.55		.31	.15				.39	.15					.12	.13		.75			.80		3.88
Heber	do																																
Hereford	Gila												1.50										.75	.65		1.20				.15	.25		4.50
Holbrook	Little Colo												T.			T.						.42				.93				.20	.10	.07	1.72
Indian Oasis	Desert																																
Intake	Salt																											.65				.75	1.40
Jerome	Verde												T.													.47		.16	.73				1.36
Keams Canyon	Little Colo	.55											T.	.18	.07			T.			T.							T.				.03	0.83
Kingman	Colorado																							.32					.25				0.57
Lakeside	Little Colo			.36	.30							.08		T.	T.	.32	T.								T.		.62	.06			.60		2.34
Lewis Springs	San Pedro			.01							.05		.52	.12	T.				1.24					.11		.28		1.59	.09		.10		4.11
Lowell Observatory	Little Colo												.10		.15							.02			.25			.05					0.62
McNeal	White			.29	.03	.03								1.40	.19	T.	.10		T.	.06		T.		.12	.12	.06	.12	.42	.35	.50	T.	.06	3.85

TABLE 2.—*Daily precipitation for August, 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	
Arizona—Contd.																																	
Maricopa	Gila											T.	.73															.65				.03	1.41
Mesa ‖	Salt											.10	.10		T.								.03				T.	1.00			T.	.10	1.33
Mohawk Summit	Gila																							.03			.45						0.48
Naco	San Pedro				.37	.05							1.05	.06					.01					.90	.02	.65	.20		.03	.25	.93		4.52
Natural Bridge	Verde												.60	1.00										.35	1.00			.68	.05	T.	.62	1.23	5.53
Oracle	San Pedro												T.															.11	.06	1.04	.65	1.95	3.81
Osborn	do					.12						2.35		.03		.03			.62					.45		1.10		.37	.35	.07			5.49
Paradise	Desert		.12	T.								T.		1.75	.47	.16	.40					T.	T.		.62		.18	.06	.04	.07	.08	.29	4.24
Parker	Colo																								.08	.05		.02	.80				0.95
Payson	Verde																																
Phoenix	Salt												.20	T.	T.		T.						T.	.01	T.	T.	T.	.50	.01			T.	0.72
Phoenix (1)	do												T.	.11	.05		T.							T.	T.	.16		.12	.40		T.	T.	0.84
Phoenix (2)	do												1.16	T.	.23		T.						T.	T.		T.	T.	.22	.33			.31	2.25
Pinal Ranch	Gila												.19	.05				.04									.57		1.78			2.01	4.64
Pinto	Little Colo	T.	T.	.10	T.								T.			T.	.14		T.					T.	T.			.38	.13		.42		1.17
Prescott	Hassayampa												.02	.26	1.00								T.	.05	.04		.08	.39				.37	2.21
Quartzsite	Colorado																								.55				1.06				1.61
Redrock	Santa Cruz																																
Rice	Gila																																
Roosevelt	Salt												.18															.65	.15		.45	.75	2.18
Sacaton	Gila																							.20				.32		.06	.28	.16	1.02
St. Johns	Little Colo												T.	T.			.60					.07						.65			1.10	.20	2.62
St. Michaels	do			T.		T.									.30					.05						T.	.55	.10		.11	T.		1.11
Salome	Colorado													.07																			0.07
San Simon	Gila																																
Seligman	Verde														T.									T.			T.	T.	T.	T.			T.
Sentinel	Gila												1.58												.03			.92					2.53
Silverbell	Santa Cruz																							.40					.50		.35		1.25
Snowflake	Little Colo				T.						T.				.26	.04				.30	.23								T.		1.30		2.13
Springerville	do		.20	.10								.25		.45	.22		.32	.06			.03	T.					.06	.36	.01	.08	.72	.05	2.91
Supai	Colorado		.02											.03															.48	.15	.21		0.89
Tempe	Salt												.23	.56									T.	T.				.50	.56			T.	1.85
Thatcher	Gila		T.									T.	T.	.02	T.		T.			.25				.76				.05	T.		.07		1.15
Tombstone	San Pedro			.21															.27					.26		.13		.28		.78	.12		2.05
Truxton	Colorado																			.04				T.				1.55	.50	.10			2.19
Tuba	Little Colo		.23												.02													.10	T.				0.35
Tucson	Santa Cruz										T.	T.	T.	.02			.25	.06						.10	T.			.02	.12	.04	.02	.33	0.96
Tucson (1)	do												.01	.02			.13			.13				.08			.03	.23	.17		.26	.03	1.09
Tucson (2)	do										.06		.06	T.			.17	.06				.07		.15	.04		T.	T.	.11	T.	.29	.55	1.56
Vail	do										.02		.60											1.70									2.32
Walnut Grove	Hassayampa												.53		.40									.04					.30	.40			1.67
Wickenburg	do																																
Willcox	Desert											T.	.09					.20	0.53									.80		.16	.18		1.96
Williams	Colorado														.46	.30								.30	.55			.35					1.96
Winslow	Little Colo																																
Yarnell	Hassayampa																																
Yuma	Colorado																							T.				.04	.10				0.14
Yuma (1)	do																							T.	.02			.09	.06	T.			0.17
Nevada.																																	
Caliente	Colorado																																0.00
Logan	do																																0.00

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

TABLE 3.—*Maximum and minimum temperatures for August, 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....	75	40	76	49	82	53	88	64	75	39	72	53	75	48	75	40	80	55	94	73	94	61	92	57	93	61	86	52
2....	73	40	74	44	86	48	93	61	70	38	78	49	78	45	77	43	89	53	99	66	97	55	92	61	95	53	89	59
3....	75	41	84	49	85	47	94	65	74	40	81	48	79	45	80	45	91	54	100	67	99	58	93	56	95	54	87	60
4....	75	37	83	43	84	49	94	56	75	37	81	42	78	38	83	51	90	53	100	65	98	53	96	54	93	59	84	59
5....	73	32	80	39	86	46	91	58	78	35	76	41	76	35	80	50	91	47	101	65	98	52	98	52	95	59	82	50
6....	61	38	83	53	84	47	94	60	76	36	80	40	77	35	79	46	94	46	100	63	100	52	99	50	92	50	88	59
7....	63	39	82	48	84	46	86	61	74	36	72	40	68	34	81	46	86	49	100	65	95	54	101	52	92	47	87	60
8....	75	40	73	43	83	44	86	54	73	35	74	37	76	34	82	45	86	46	102	67	97	50	102	54	91	48	90	61
9....	82	48	83	41	88	44	95	60	80	32	85	40	82	33	81	40	97	44	103	65	101	52	102	57	95	47	91	61
10....	75	45	94	44	85	48	94	62	78	37	81	40	81	36	79	40	94	48	100	75	97	54	98	62	92	52	89	63
11....	76	36	87	43	85	45	93	62	79	34	81	41	81	32	78	37	94	43	98	80	99	53	95	58	93	49	86	58
12....	74	32	86	41	82	48	92	59	78	38	80	42	87	35	73	38	96	46	100	70	101	54	96	56	87	59	79	57
13....	75	32	88	42	79	52	93	63	78	40	82	47	82	38	82	42	94	47	99	73	100	57	95	65	90	57	75	52
14....	77	33	86	47	65	54	82	64	64	49	73	46	73	41	85	46	90	58	90	74	91	64	83	57	68	58	80	55
15....	80	36	85	54	68	51	78	60	69	41	68	54	67	51	82	45	82	58	89	69	90	63	93	54	81	57	77	48
16....	69	34	72	42	76	46	80	57	65	45	77	42	75	35	85	46	87	57	94	59	91	51	94	62	86	54	76	54
17....	64	40	84	49	69	53	78	61	71	46	73	44	79	40	83	45	84	52	94	70	90	64	90	58	83	60	78	55
18....	63	35	75	42	76	49	88	61	75	37	75	41	73	40	82	44	81	50	92	72	91	67	92	52	86	53	79	54
19....	60	30	64	34	80	47	86	57	76	40	78	38	77	32	80	47	87	43	95	59	94	49	93	52	89	63	75	55
20....	60	30	79	37	82	46	89	56	74	42	79	33	77	32	81	43	88	44	97	60	98	48	96	52	89	53	73	55
21....	70	35	82	58	78	48	90	59	71	43	80	39	78	31	84	50	89	44	99	61	99	48	102	52	90	56	76	57
22....	75	32	84	58	85	44	91	60	73	45	78	39	78	30	85	52	92	45	102	63	99	48	102	51	92	56	79	53
23....	76	31	85	57	85	46	92	59	76	33	80	36	80	30	86	51	95	44	102	66	100	50	103	54	94	55	79	58
24....	78	32	87	67	82	47	94	61	78	33	83	40	80	29	88	52	96	42	100	65	97	51	96	68	93	56	75	58
25....	78	33	88	71	85	49	94	62	79	34	82	42	87	30	85	53	98	44	100	69	102	55	98	63	94	56	79	55
26....	81	40	90	66	86	47	97	64	80	35	81	38	89	33	82	51	97	45	100	65	101	57	93	68	97	57	79	60
27....	71	50	94	57	78	55	82	65	75	50	75	55	77	31	81	52	89	54	94	73	94	59	92	70	87	60	78	59
28....	74	36	76	59	80	49	86	61	75	38	77	45	79	37	82	53	89	50	95	75	95	58	92	69	89	54	80	57
29....	70	34	85	55	78	56	81	62	71	41	75	55	71	53	85	53	77	58	89	73	87	63	84	71	88	55	79	57
30....	66	30	74	44	68	56	78	58	70	49	76	48	69	50	78	52	79	49	86	65	88	57	81	62	78	63	76	55
31....	69	25	76	53	73	52	84	55	70	45	72	46	71	50	71	53	86	44	91	65	90	55	89	57	83	58	75	53
Mn...	72.0	36.0	82.0	49.3	80.2	48.8	88.5	60.2	74.2	39.5	77.6	43.3	77.4	37.5	81.1	46.8	89.3	48.8	96.9	67.6	95.8	55.2	94.6	58.3	89.4	55.5	80.8	56.4

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.....	84	60	73	42	87	56	76	54	105	82	101	71	80	48	83	49	98	67	106	75	98	68
2.....	88	63	76	46	90	55	78	52	99	79	106	77	87	53	86	56	101	67	106	71	101	66
3.....	87	63	77	44	99	56	80	52	98	71	105	74	86	51	86	52	101	68	106	71	102	62
4.....	88	62	80	43	91	59	80	54	105	75	106	74	87	51	85	50	103	74	111	69	105	57
5.....	86	63	79	48	93	55	78	52	110	74	106	76	87	54	87	57	99	71	110	71	105	61
6.....	90	63	80	46	93	53	84	54	114	73	107	73	90	51	88	57	103	66	113	74	105	59
7.....	89	64	81	43	93	52	86	52	115	72	108	72	89	51	88	50	104	64	112	73	106	60
8.....	90	64	82	44	95	51	84	58	114	72	108	75	91	55	90	50	106	65	111	72	108	63
9.....	89	65	79	45	100	54	84	56	108	72	105	77	88	55	88	50	104	68	107	75	106	63
10.....	80	65	76	54	92	58	82	54	104	74	100	76	84	53	86	56	97	73	106	77	102	62
11.....	80	64	77	48	90	56	80	54	103	74	100	78	84	53	80	56	92	71	102	76	102	63
12.....	72	57	73	46	74	58	80	52	104	72	94	69	82	50	83	54	86	71	102	81	102	68
13.....	75	61	73	52	78	58	80	54	99	74	89	70	73	57	72	53	89	67	101	75	101	65
14.....	78	60	72	55	82	58	82	52	104	75	95	72	78	54	71	54	92	69	103	76	98	77
15.....	80	58	73	40	85	50	80	50	104	72	98	69	78	51	78	52	98	67	104	68	99	64
16.....	72	60	72	44	89	53	78	48	101	63	100	75	79	51	78	49	95	65	104	67	100	59
17.....	76	58	70	47	82	55	75	49	100	60	98	75	77	51	78	54	92	66	101	76	96	55
18.....	77	52	71	51	86	55	78	48	97	64	97	75	76	48	79	48	98	69	100	70	96	57
19.....	73	56	73	42	77	59	75	43	100	65	97	69	80	48	79	50	95	70	102	66	99	59
20.....	77	59	74	44	87	51	73	47	102	68	100	72	85	51	83	50	97	67	103	70	100	66
21.....	76	60	79	44	89	55	72	45	107	66	102	73	91	50	88	47	101	68	103	72	102	64
22.....	73	61	80	41	96	54	73	42	111	73	105	74	85	63	85	49	101	70	109	74	106	59
23.....	73	60	79	46	86	56	75	42	100	75	93	73	83	56	87	48	99	70	99	85	107	62
24.....	73	60	75	56	85	60	73	40	112	70	98	73	80	52	85	54	96	69	102	80	103	70
25.....	76	60	77	47	92	56	74	42	107	77	103	75	81	57	85	55	99	68	104	78	104	66
26.....	82	61	75	51	73	56	72	42	103	74	95	77	75	61	83	54	95	74	101	84	103	73
27.....	77	59	69	56	75	61	74	42	100	75	83	71	75	56	75	54	87	72	96	80	98	75
28.....	77	60	72	55	82	56	74	46	89	74	91	71	81	55	75	51	91	69	96	78	95	76
29.....	77	60	69	49	86	55	72	42	97	72	95	74	76	53	80	51	93	70	96	75	93	73
30.....	74	59	71	49	77	60	70	44	96	62	90	76	75	54	76	55	87	71	97	68	90	66
31.....	74	59	70	48	78	58	.....	42	95	62	92	74	75	53	73	55	93	68	98	69	96	55
Mn.....	79.5	60.4	75.1	47.3	86.5	55.8	77.4[a]	48.5	103.3	71.3	98.9	73.5	81.9	53.1	81.9	52.3	96.5	68.8	103.6	74.1	100.9	64.3

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