U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT No. 9, COLORADO VALLEY

FREDERICK H. BRANDENBURG
DISTRICT EDITOR

REPORT FOR MAY, 1913

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DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

May was warmer than the normal, except in Arizona and the western part of New Mexico. The extremes of temperature were not unusual in the northern and central parts of the district, but in Arizona and New Mexico the high temperatures common to May did not occur. The feature of the month was the light precipitation. The amount was about 38 per cent of the normal, and this in view of the fact that May, normally in the Colorado Basin, is the driest month in the year. Low pressure prevailed almost continuously. Several depressions were strong enough to move eastward across the mountains, but the attending precipitation was light and scattered, the passage of the depressions being manifested principally by temperature changes and wind storms. As a result of the prolonged drought, grass on the ranges has become dry unusually early in practically all parts of the district. There was a marked excess of sunshine.

TEMPERATURE.

The mean temperature for the stations reporting was 60°, or 0.3° above the normal. The mean for May, 1912, was 58°. The highest monthly mean was 79.7° at Mohawk Summit, Ariz., and the lowest, 33.2°, at Corona, Colo. The cold and warm periods were more sharply defined than usual for the time of year. The first four days were much colder than the normal; it was during this period that the lowest temperatures of the month occurred. Freezing temperatures occurred in western Wyoming and at practically all the stations in western Colorado, eastern Utah, western New Mexico, and three-fourths of the stations in Arizona. Cold spells, but not so severe, also occurred on the 14th, 15th, 19th, 20th, and in the southern half of the district on the last four days.

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	48.2	+3.7	85	Green River	9	Willow Creek Cabin.
Western Colorado	52.4	+2.5	95	At 2 stations	12	At 2 stations.
Eastern Utah	58.2	+1.9	106	Vernal	12	Scofield.
Western New Mexico.	59.0	−0.2	95	At 2 stations	15	Luna.
Arizona	66.0	−1.5	107	Maricopa	15	Flagstaff No. 1.
Southeastern Nevada.	65.7	+6.0	100	Logan	22	Caliente.

Temperatures were normal or slightly above from the 5th to 12th in the southern and central parts, but in the northern part of the district the excess was more pronounced. From the 22d to the 27th a marked excess was general, and the highest temperatures of the month occurred during this period. Readings of 90° or higher were common, except in western Wyoming. The highest temperature, 107°, occurred at Maricopa, Ariz., on the 23d, and the lowest, 9°, at Willow Creek Cabin, Wyo., on the 3d.

PRECIPITATION.

The average for the 207 stations reporting was 0.21 inch, 0.35 inch less than the normal. The average for May, 1912, was 0.49 inch. Of the stations with normals, only 7 reported an excess, and that slight. The local character of the precipitation is shown by the fact that rain fell somewhere in the district every day but two, yet an appreciable amount did not occur at 2 stations in western Colorado, 8 in eastern Utah, 5 in western New Mexico, 1 in southeastern Nevada, and 35, or 40 per cent, of the stations in Arizona. The greatest monthly amount was 3.09 inches at Corona, Colo. Monthly snowfalls of 2 inches or more occurred at 3 stations in western Wyoming, 15 in western Colorado, and 2 in eastern Utah. The greatest monthly fall, 14.5 inches, occurred at Willow Creek Cabin, Wyo. The average number of days with 0.01 inch or more precipitation was 5 in western Wyoming, 4 in western Colorado, and 1 each in eastern Utah and western New Mexico, and no day in Arizona and southeastern Nevada. For the district as a whole the average was 1 day.

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.
0.46	−0.53	0.51	−0.70	0.18	−0.58	0.02	−0.55	0.09	−0.15	0.15	−0.01	0.05	−0.43

MISCELLANEOUS.

The average amount of sunshine, in percentages, with departures from the normal was as follows: Grand Junction, 80, +9; Durango, 86, +8; Phoenix, 93, +2; and Yuma, 98, +3.

The relative humidity reported was: Grand Junction, 34; Durango, 36; Phoenix, 26; and Yuma, 40 per cent.

THE COLORADO RIVER.

For May the volume discharged by the Grand River at Fruita was the average for the last six years; that of the Green River at Elgin, Utah, slightly below the average. In the lower reaches of the trunk stream the discharge was somewhat below the average. As is usual at the time of year, the changes in temperature at high altitudes were reflected in the fluctuations of the streams. In the San Juan and Grand, two of the three streams forming the Colorado, there was a general rise until the 14th, followed by a steady fall till the 23d. The Green, however, maintained a more steady discharge, and in common with the Grand and San Juan, rose after the 23d. The maximum stage in the San Juan was reached on the 28th, while in the Grand and Green the highest occurred on the 31st. In the lower reaches the maximum stage at Topock, 10.1 feet, occurred on the 20th; at Yuma the highest stage, 20.4 feet, occurred on the 23d. These stages are the lowest for May in five years.

TABLE 1.—*Climatological data for May, 1913. District No. 9, Colorado Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of 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.		
Wyoming.																				
Big Piney	Lincoln	6,800																		Ira Dodge.
Daniel	do	6,740	14	46.6	+ 3.7	79	26	10	3	47	1.56	+ 0.28	0.80	8.0	4	2	6	23	nw.	J. M. Van Dervort.
Eden	Sweetwater	6,577	4	49.0		80[a]	26	13[a]	3	45[a]	0.22		0.10	0.5	3	9[a]	15[a]	6[a]	w.	Eden Val. L. & I. Co.
Green River	do	6,083	8	54.4		85	25	25	3	40	0.10		0.03	0.3	4	5	20	6	w.	Geo. H. Maxom.
Pinedale	Fremont	7,167	7	47.2		78[d]	26	10[d]	3	49[d]	0.95		0.60	8.0	6	6[d]	19[d]	2[d]	nw.	U. S. Forest Service.
Wamsutter	Sweetwater	6,702		51.9		84	25	19	2	47	0.12		0.04	T.	5	10	10	11	w.	T. C. Sherman.
Willow Creek Cabin	Fremont	7,500	4	40.2		74[i]	26	9[i]	3	40	1.91		0.84	14.5	7	11[i]	4[i]	7[i]	nw.	U. S. Forest Service.
Colorado.																				
Ashcroft	Pitkin	9,483	11	47.4[h]	+ 5.7	73[h]	29	18[h]	15	47[h]										Dan McArthur.
Blue Valley Ranch	Grand																			L. R. Hubbard.
Breckenridge	Summit	9,536	24	41.4[i]	+ 2.4	71[i]	18	14[i]	5	50[i]						10[i]	9[i]	3[i]		Albert S. McCullough.
Buford	Rio Blanca		2																	Mrs. H. Genier.
Cascade	San Juan	8,900	6								0.24		0.08	0	5	20	8	3		The Western Colo. Power Co.
Cedaredge	Delta	6,175	15	58.4	+ 2.5	85	26	26	3	41	0.14	− 0.69	0.08	0	2	16	12	3		Harry A. Cobbett.
Cochetopa	Saguache	9,088	4								0.27		0.22	T.	2	5[a]	13[a]	12[a]	w.	Miss Bessie McDonough.
Collbran	Mesa	6,000	20	56.3	+ 2.9	83	26	27	3	38	0.47	− 0.92	0.26	T.	3	21	9	1	sw.	A. A. Wood.
Columbine	Routt	8,766	3								1.46		0.90	4.0	7	17	12	2	sw.	Mrs. Martha A. Caron.
Columbine Ranch	Delta	6,925	3								0.14		0.14	0	1	21	6	4	s.	George W. Wade.
Corona	Grand	11,660	6	33.2		53	31	12	3	25	3.09		0.65		13				w.	U. S. Weather Bureau.
Cortez	Montezuma	6,100	2	56.2		85	23†	24	4	46	T.		T.	0	0	31	0	0	sw.	W. G. Clucas.
Crawford (near)	Montrose	6,600	3	55.0		80	29	22	3	37	0.40		0.29	0	2	19	9	3		C. W. Roe.
Crested Butte	Gunnison	8,867	3	43.6		72	29†	15	3†	44	0.59		0.22	0	5	12	10	9	w.	Charles L. Ross.
Delta	Delta	4,965	23	60.9	+ 2.0	94	26	29	3	53	0.30	− 0.33	0.09	0	5	19	11	1		E. M. Getts.
Dillon	Summit	8,800	3	42.0		73	30†	13	4	50	0.42		0.13	3.0	6	10	10	11	sw.	Mrs. Nannie B. Strong.
Durango	La Plata	6,534	18	55.2	+ 0.2	83	23	28	4	43	0.74	− 0.40	0.67	0	2	11	18	2	nw.	U. S. Weather Bureau.
Eureka	San Juan	10,000	6								0.52		0.22	2.0	4	13	13	5	s.	The Western Colo. Power Co.
Graser	Grand	8,560	4	40.0		71	27†	12	3	52	0.87		0.20	3.0	7	18	0	13	n.	L. D. C. Gaskill.
Fruita	Mesa	4,510	14	61.4	+ 2.7	92	26	27	4	50	0.15	− 0.76	0.06	0	4	19	10	2	sw.	J. B. Willsea.
Flade Park	do	7,000	2								0.49		0.20	4.2	3	20	9	2	sw.	A. F. Terrill.
Gladstone	San Juan	10,400	6								0.36		0.26	3.3	6	8	13	10	nc.	The Western Colo. Power Co.
Glenwood Springs (near).	Garfield	5,823	15	53.8	+ 0.1	86	31	23	4	49	0.18	− 0.68	0.18	0	1	25	4	2	w.	E. A. O'Neil.
Grand Junction	Mesa	4,602	22	64.0	+ 2.4	90	26	34	4	37	0.12	− 0.80	0.06	0	4	15	10	6	se.	U. S. Weather Bureau.
Grandlake	Grand	8,153	5								1.28		0.38	4.5	5	17	9	5	w.	Mrs. Belle Kauffman.
Grand Valley	Garfield	5,089	21	60.8	+ 3.6	95	26	29	15	54	0.29	− 0.83	0.22	0	2	10	15	6		David Evans.
Gunnison	Gunnison	7,670	20	48.6	+ 0.8	80	31	14	4	52	0.04	− 0.60	0.04	0	1	20	11	0	sw.	Clarence Adams.
Hayden	Routt	6,337		52.8		82	26	20	3	45	0.25		0.09	0	3	7	17	7	w.	A. W. Friederich.
Hesperus (near)	La Plata	7,610	1								0.04		0.04	0	1	11	13	7		G. F. Snyder.
Horsefly	Montrose	8,700	3								0.85		0.48	2.0	2	21	8	2	sw.	Lawrence J. Finch.
Ironton	Ouray	10,000	3								0.36		0.36	T.	1	9	16	6	se.	Mrs. Amanda E. Foley.
Lake City	Hinsdale	8,686	8	48.4		76	26	20	4	39	0.44		0.18	2.5	9	12	11	8	s.	J. F. Maurer.
Lay	Moffat	6,190	19	53.3	+ 3.5	83	26	16	12	60	0.40	− 0.83	0.15	0	4	13	13	5	sw.	A. G. Wallihan.
Mancos	Montezuma	6,960	14	55.0	+ 3.8	83	27	21	5	55	T.	− 1.19	T.	0	0	11	14	6	w.	Miss Gertrude Rickner.
Marble	Gunnison	7,951	4	49.4		77	30	16	3	43	0.54		0.18	3.0	4	22	6	3	ne.	F. E. Morse.
Marshall Pass	Saguache	10,846	10								0.47	− 0.46	0.17	2.0	3	9	16	6		Wm. L. Williams.
Meeker (near)	Rio Blanca	6,182	21	53.1	+ 1.8	81	26†	19	4	54	0.46	− 0.89	0.25	T.	4	20	9	2	sw.	T. Baker.
Montrose	Montrose	5,811	24	59.2	+ 4.4	86	12†	26	3	45	0.57	− 0.13	0.34	0	4	15	13	3		U. S. Reclamation Service.
Nast	Pitkin	7,953	3	46.2		76	29	18	3†	45	0.18		0.12	3.0	2	14	13	4	w.	Arthur Hanthorn.
Pagosa Springs	Archuleta	7,108	6	48.6		84	26	14	4†	58	0.08		0.08	0	1	16	15	0	sw.	E. T. Walker.
Palisades	Mesa	4,729	2	63.5		95	26	30	4	49	0.34		0.20	0	3	15	12	4		E. P. Updegraff.
Paonia	Delta	5,694	18	60.2	+ 1.8	91	26	26	3	43	0.40	− 0.88	0.25	0	2	11	19	1	sw.	J. M. Underwood.
Pikin	Gunnison	9,500	4								0.19		0.07	T.	3	14	10	7	s.	Mrs. Maggie Cammann.
Pyramid	Rio Blanca		2																	E. E. Egry.
Redcliff	Eagle	8,695	20																	Dorothea Greiner.
Redvale	Montrose	6,300		56.2		82	23†	20	3	38	0.60		0.33	0	2	18	10	3	sw.	Dr. E. S. C. Foster.
Rico	Dolores	8,824	11								0.34	− 1.25	0.13	1.0	5	21	8	2	s.	Clinton B. Smith.
Rifle	Garfield	5,437	2	59.2		88	26†	27	4	50	0.18		0.09	0	2	14	6	11	sw.	Herman Eiche.
River Portal	Montrose	6,570	7	59.0		88	30	30	1	44	0.31		0.31	0	1	28	2	1		U. S. Reclamation Service.
Sapinero (near)	Gunnison	8,125	10	47.5	+ 2.5	75	26	18	3	40	0.69	− 0.83	0.25	3.9	6	17	7	7	w.	W. F. Irving.
Shoshone	Garfield	6,110	3	59.0		85	29	34	4	40	0.44		0.25	0	6	12	13	6		Central Colorado Power Co.
Silverton (near)	San Juan	9,400	6	41.8		69	22†	16	4†	46	0.28		0.20	T.	2	9	19	3	sw.	The Western Colo. Power Co.
Spruce Lodge	Grand	9,600	5								2.00		0.45	9.0	11	5	20	6	n.	H. J. Wills.
Steamboat Springs	Routt	6,683	10	50.4	+ 2.0	82	29	19	4	50	1.53	− 0.19	0.52	0	4	19	10	2		Herbert B. Gee.
Tacoma	La Plata	7,300	6								0.23		0.22	T.	2	5	13	13	s.	The Western Colo. Power Co.
Telluride	San Miguel	8,756	1	47.0		74	22	18	4	50	0.30		0.12	4.0	4	16	12	3	se.	David S. Painter.
Terminal Dam	La Plata	8,300	6																	The Western Colo. Power Co.
Yampa (near)	Routt	8,000	4								0.14		0.14	1.5	1	18	8	5	sw.	Wm. A. Charls.
Utah.																				
Aneth	San Juan	4,800	9	66.3		92	23†	35	15	43	0.20		0.20	0	1	28	2	1		H. R. Antes.
Bluff	do	4,200	1	64.9[m]		93[m]	26	33[m]	4	41[m]	0.00		0.00	0	0	29	1	1		H. H. Redd.
Canaan	Washington																			J. M. Lauritzen.
Castle Dale	Emery	5,500	14	54.6	+ 1.0	89	11	14	3	49	0.05	− 0.39	0.05		1	19	12	0		Miss Fay Jeffs.
Cisco (near)	Grand	4,100	13																	J. J. Anderson.
Dragon	Uinta	6,000	3	58.8[f]		84	26	30	2†	38	0.28		0.28	T.	1	15	13	3	s.	H. D. Ford.
Duchesne	Wasatch	5,500	6	55.4		84	25†	18	3	42	0.16		0.09	0	3	8	17	6		M. M. Smith.
Elkhorn	Uinta	6,657	3																	Chas. DeMoisey, jr.
Emery	Emery	6,200	12	54.6	+ 3.1	83	23†	21	4†	48	T.	− 0.46	T.	0	0	1	1	29	s.	H. C. Wickman.
Escalante	Garfield	5,700	10	56.6	+ 1.4	84	25	28	1	38	0.00	− 0.43	0.00	0	0	30	0	1		Geo. H. Barney.
Fort Duchesne	Uinta	4,941	25	59.4	+ 3.4	88	25	29	3	50	T	− 0.74	T.	0	0	19	10	2	w.	Geo. W. Dickson.
Fruitland	Wasatch	7,625	3																	J. Peter Naab.
Grayson	San Juan	6,000	6	57.7		83	23	28	3	36	0.00		0.00	0	0	26	1	4	sw.	E. F. Thompson.
Green River	Emery	4,080	13	59.9[o]		90[o]	11	32[o]	4	52[o]	0.00	− 0.55	0.00	0	0	9[o]	7[o]	0[o]		Edgar E. Adams.
Hanksville	Wayne	4,200	2	56.3		92	26†	26	4	48	0.00		0.00	0	0	24	7	0	sw.	F. J. Weber.
Hite	Garfield	3,500	13	71.2	+ 3.4	97	23†	42	4	42	T.	− 0.58	T.	0	0	21	10	0		John P. Hite.
Hurricane	Washington	3,800	1								0.25		0.25	0	1					Amos Workman.
Kanab	Kane	4,925	5																	Vermilion Co.
La Sal	San Juan	7,000	10																	Gertrude W. Carpenter.
Leeds (near)	Washington	3,400		66.0		91	25	39	2	34	0.22		0.22	0	1	8	7	16		B. F. Anderson.
Loa	Wayne	7,000	17																	W. S. McClellan.
Manila	Uinta	6,225	3	52.3		80	25†	25	6†	46	0.62		0.20		5	8	21	2		Daniel M. Nelson.
Moab	Grand	4,000	23	67.2	+ 3.3	97	23†	33	4	51	0.19	− 0.57	0.13	0	2	9	20	2		Henry Crouse.
Monticello	San Juan	7,545	5																	Geo. F. Barton.
Mountain Home	Wasatch	6,750	1								0.25		0.20		2				sw.	Oscar Wilkins.

TABLE 1.—*Climatological data for May, 1913. 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.		
Utah—Continued.																				
New Harmony	Washington	5,200	2	.....	.....	.....	.....	.....	.....	.....	0.25	.....	0.25	0	1	.....	.....	.....	.....	Geo. F. Prince.
Orderville	Kane	6,660	3	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	.....	.....	.....	.....	F. A. Porter.
Pine Valley	Washington	6,000	2	.....	.....	.....	.....	.....	.....	.....	0.50	.....	0.42	T.	3	17	4	10	s.	Mason Gardner.
Price	Carbon	5,557	2	59.0[a]	.....	90	26	24	3	46	0.11	.....	0.07	0	2	9[a]	11[a]	10[a]	nw.	Geo. Mathis.
Ranch	Kane	6,700	11	49.2	+ 1.0	79	23	16	3	46	0.00	− 0.94	0.00	0	0	28	3	0	w.	J. W. Seaman.
San Rafael	Emery	4,250	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	23	5	3	se.	J. J. Nouguier.
St. George	Washington	2,880	26	66.8	± 0.0	97	22†	33	3	49	0.05	− 0.33	0.05	0	1	21	9	1	.....	A. B. Ballantyne.
Scofield	Carbon	7,625	4	44.4	.....	76	26	12	3†	51	0.77	.....	0.49	4.0	4	22	0	9	s.	B. Newren.
Springdale	Washington	3,500	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hattie Wood.
Strawberry Tun. E	Wasatch	7,650	1	44.3	.....	75	27	14	3	49	1.16	.....	0.45	6.5	4	12	7	12	.....	Reclamation Service.
Teasdale	Wayne	7,000	4	56.0	.....	98	26	20	3	58	T.	.....	T.	T.	0	14	14	3	w.	Henry Cullum.
Thompsons	Grand	5,150	2	63.7[d]	.....	91	26	31	2†	34	0.03	.....	0.03	0	1	20[d]	6[d]	1[d]	sw.	Mrs. A. M. Starmont.
Tropic	Garfield	7,060	16	52.7	+ 0.6	82	23	26	3	40	T.	− 0.71	T.	T.	0	10	19	2	nw.	E. P. Bolton.
Trout Creek Rngr	Uinta	9,200	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Forest Supervisor.
Vernal	do	5,050	16	58.7	+ 2.2	106	28	21	3	68	0.01	− 0.96	0.01	0	1	22	5	4	.....	H. E. Dillman.
Victor	Emery	5,250	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	.....	.....	.....	.....	F. F. Noyes.
White Rocks	Uinta	6,200	1	.....	.....	.....	.....	.....	.....	.....	0.02	.....	0.02	T.	1	4	13	14	w.	E. C. Sims.
Woodside	Emery	4,645	2	59.6	.....	93	25	26	3	48	0.39	.....	0.39	.....	1	20	11	0	s.	D. P. Adams.
New Mexico.																				
Alma	Socorro	5,500	15	60.3	− 1.4	93	22	24	4	57	0.06	− 0.24	0.04	0	3	12	19	0	sw.	Max A. Balke.
Aragon	do	.....	6	55.4	.....	84	22†	20	5	52	0.20	.....	0.20	0	1	16	15	0	sw.	John R. Milligan.
Aztec	San Juan	5,590	13	.....	.....	.....	.....	.....	.....	.....	T.	− 0.52	T.	0	0	21	10	0	sw.	Dr. T. J. West.
Berger's Ranch	McKinley	8,000	1	49.4	.....	78	22†	18	4†	50	0.18	.....	0.18	0	1	25	3	3	w.	Herman Berger.
Blackrock	do	6,500	4	59.9	.....	84	7	24	11	50	T.	.....	T.	0	0	25	2	4	e.	Patrick Des Georges.
Bloomfield	San Juan	5,500	18	59.2	+ 1.1	92	26	25	4	52	0.19	− 0.22	0.19	0	1	26	4	1	sw.	Fred LeClerc.
Cambray	Luna	4,215	14	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.10	0.00	0	0	30	0	1	.....	Agent So. Pac. R. R.
Cliff	Grant	4,470	13	63.6	− 0.7	95	26	18	4	61	0.22	+ 0.04	0.17	0	2	26	5	0	.....	W. C. Belden.
Columbus	Luna	4,054	4	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	25	1	5	sw.	Agent E. P. & S. W. R. R.
Deming	do	4,333	36	69.0	.....	95	28	36	4	46	0.00	.....	0	0	0	29	2	0	w.	Agent So. Pac. R. R.
Dulce	Rio Arriba	6,756	16	52.8	+ 1.6	85	31	20	4	53	0.13	− 0.78	0.10	0	2	25	5	1	w.	E. O. Green.
Farmington	San Juan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Orville Ricketts.
Fort Bayard	Grant	6,152	44	61.2	− 0.4	85	26	32	3	37	0.47	+ 0.16	0.23	0	4	23	3	5	w.	U. S. Genl. Hospital.
Fruitland	San Juan	4,800	19	60.2	+ 0.3	89	25	26	4	47	0.00	− 0.34	0.00	0	0	19	12	0	sw.	Cyril J. Collyer.
Gage	Luna	4,486	13	63.0	.....	88	31	38	2†	43	T.	− 0.08	T.	0	0	25	3	3	w.	Agent So. Pac. R. R.
Gila Planting Station	Grant	6,475	2	60.4	.....	84	26	29	3	37	0.20	.....	0.08	0	3	26	4	1	w.	U. S. Forest Service.
G. O. S. Ranch	do	8,000	1	55.8	.....	90	22†	16	3	56	0.27	.....	0.13	0	3	15	12	4	w.	Victor Culberson.
Hachita	do	4,504	4	.....	.....	.....	.....	.....	.....	.....	0.20	.....	0.20	0	1	29	1	1	sw.	Agent E. P. & S. W. R. R.
Haynes	Rio Arriba	6,600	2	54.4	.....	83	25	26	5†	48	0.04	.....	0.04	0	1	21	9	1	sw.	Dr. John R. Haynes.
Hermanes	Luna	4,451	4	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	29	2	0	w.	Agent E. P. & S. W. R. R.
Lordsburg	Grant	4,245	31	66.6	− 2.1	94	26	35	4	45	T.	− 0.20	T.	0	0	15	16	0	w.	J. H. McClure.
Luna	Socorro	7,300	12	51.8	+ 0.1	83	22†	15	4	53	0.38	− 0.10	0.20	T.	2	9	22	0	w.	C. B. Martin.
Mimbres	Grant	5,007	8	.....	.....	.....	.....	.....	.....	.....	0.45	.....	0.22	0	3	26	5	0	.....	Charles Dennis.
Pinos Altos (near)	do	7,253	2	.....	.....	.....	.....	.....	.....	.....	0.46	.....	0.21	0	3	23	8	0	w.	O. L. Scott.
Pratt	do	4,415	4	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	24	7	0	sw.	Agent E. P. & S. W. R. R.
Putnam	San Juan	6,200	1	57.8	.....	89	28	21	1†	57	T.	.....	T.	0	0	21	7	3	.....	C. F. Spader.
Redrock	Grant	4,150	8	.....	.....	.....	.....	.....	.....	.....	0.12	.....	0.12	0	1	25	5	1	.....	Robert H. Woods.
Rodeo	do	4,118	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Silver City	do	5,860	2	60.8	.....	89	26	28	3	44	0.21	.....	0.16	0	3	26	5	0	n.	E. M. Brumback.
Arizona.																				
Allaires Ranch	Cochise	4,184	16	.....	.....	.....	.....	.....	.....	.....	0.05	− 0.09	0.03	0	2	23	3	5	sw.	Thomas Allaire.
Alpine	Apache	8,500	3	45.5[i]	.....	.....	.....	17	4	53[i]	0.05	.....	0.05	0	1	17	11	3	s.	U. S. Forest Service.
Ashfork	Yavapai	5,229	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	24	3	4	.....	Do.
Aztec	Yuma	492	15	77.0	− 3.2	101	22	46	1†	44	0.00	− 0.05	0.00	0	0	29	2	0	.....	Agent Southern Pacific Ry.
Benson	Cochise	3,523	30	67.2	− 7.5	98	23	36	4	50	0.25	+ 0.13	0.25	0	1	25	1	5	w.	Do.
Bisbee	do	5,350	23	65.4	− 0.5	88	23	38	2	38	0.20	− 0.05	0.10	0	2	27	0	4	.....	Bisbee High School.
Blue	Greenlee	6,500	2	.....	.....	.....	.....	.....	.....	.....	0.16	.....	0.11	T.	2	.....	.....	.....	s.	Mary A. Jones.
Bonita	Graham	4,916	39	.....	.....	.....	.....	.....	.....	.....	0.10	− 0.16	0.10	0	1	20	9	2	s.	A. H. Jelley.
Bowie	Cochise	3,756	34	72.4	+ 1.1	99	26	38	4	48	T.	− 0.22	T.	0	0	25	6	0	w.	Agent Southern Pacific Ry.
Buckeye	Maricopa	980	21	72.6	+ 0.2	100	22†	40	2†	50	0.00	− 0.07	0.00	0	0	28	1	2	sw.	H. E. Kell.
Canille	Santa Cruz	5,225	4	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	21	10	0	sw.	Robert A. Rodgers.
Casa Grande	Pinal	1,396	32	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.05	0.00	0	0	31	0	0	.....	Agent Southern Pacific Ry.
Casa Grande Ruins	do	1,422	5	71.9	.....	104	23	33	2	51	T.	.....	T.	0	0	26	1	4	w.	Frank Pinkley.
Cave Creek (near)	Maricopa	1,452	5	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	.....	.....	.....	.....	John B. Lammers.
Chandler	do	1,213	18	72.4	− 1.1	102	27	41	4	52	0.00	− 0.06	0.00	0	0	28	3	0	nw.	F. V. N. Dana.
Chin Lee	Apache	6,090	5	59.0	.....	91	12	23	1	51	0.02	.....	0.02	0	1	8	14	9	sw.	Rev. L. Ostermann, O. F. M.
Chlarsons Mill	Graham	8,000	7	57.0	.....	79	23†	33	3	30	0.23	.....	0.23	0	1	13	14	4	.....	Hiram R. Chlarson.
Clifton	Greenlee	3,584	23	74.1	.....	99	23†	40	4	47	T.	− 0.39	T.	0	0	30	1	0	.....	L. C. Kyhl.
Cochise	Cochise	4,219	13	.....	.....	97	27	.....	.....	.....	0.06	− 0.11	0.03	0	3	24	0	7	w.	Agent Southern Pacific Ry.
Columbia	Yavapai	1,900	11	76.8	+ 3.7	105	24	46	2	37	0.00	− 0.20	0.00	0	0	27	4	0	s.	M. J. Nolan.
Courtland	Cochise	4,543	4	.....	.....	.....	.....	.....	.....	.....	0.22	.....	0.22	0	1	20	11	0	nw.	Agent E. P. & S. W. R. R.
Dos Cabezos	do	5,250	5	62.5	.....	94	26	28	4	54	0.22	.....	0.22	0	1	25	5	1	w.	Neil Erickson.
Douglas	do	3,930	10	67.2	− 0.6	98	23	33	3†	52	0.19	+ 0.01	0.17	0	2	29	2	0	sw.	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	21	67.0	− 2.8	96	23†	40	2	47	T.	− 0.38	T.	0	0	19	9	3	sw.	George F. Cook.
Elgin	Santa Cruz	4,706	1	61.8	.....	96	10	26	2	58[a]	0.00	.....	0.00	0	0	20	7	4	sw.	George Beebe.
Fairbank	Cochise	3,862	4	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	25	1	5	.....	Agent E. P. & S. W. R. R.
Flagstaff	Coconino	6,907	21	49.6	− 1.1	78	22	18	3	47	T.	− 1.21	T.	0	0	24	4	3	sw.	George T. Herrington.
Flagstaff (1)	do	7,500	4	46.2	.....	78	22	15	2	51	T.	.....	T.	T.	0	28	3	0	sw.	U. S. Forest Service.
Florence	Pinal	1,504	14	75.2	+ 0.4	105	23†	42	1†	52	0.00	− 0.04	0.00	0	0	27	1	3	w.	Agent Ariz. Eastern R. R.
Fort Apache	Navajo	5,200	42	60.2	− 0.2	94	27	27	1	48	0.00	− 0.59	0.00	0	0	30	0	1	nw.	Post Surgeon U. S. Army.
Fort Huachuca	Cochise	5,100	27	66.8	− 0.6	100	27	40	2	41	0.28	+ 0.01	0.20	0	2	26	0	5	se.	Do.
Fort Mohave	Mohave	604	45	.....	.....	99	25	.....	.....	.....	0.00	− 0.11	0.00	0	0	.....	.....	.....	.....	August F. Duclos.
Gilabend	Maricopa	737	23	74.8	− 4.1	102	11†	45	10	54	0.05	+ 0.01	0.05	0	1	23	6	2	.....	Agent Southern Pacific Ry.
Globe	Gila	3,625	11	67.8	− 0.1	95	26	36	4	44	0.00	− 0.30	0.00	0	0	21	10	0	nw.	Dr. B. G. Fox.
Grand Canyon	Coconino	6,866	8	55.4	.....	85	30†	20	2	58	T.	.....	T.	T.	0	27	4	0	sw.	Agent Grand Canyon R. R.
Grand Canyon (1)	do	3,676	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. W. Zachau.
Granite Reef Dam	Maricopa	1,325	20	73.0	− 1.7	103	23	42	3	43	0.00	− 0.15	0.00	0	0	25	3	3	w.	U. S. Reclamation Service.
Hereford	Cochise	4,180	4	.....	.....	.....	.....	.....	.....	.....	0.04	.....	0.02	0	2	26	1	4	sw.	Agent E. P. & S. W. R. R.
Holbrook	Navajo	5,069	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thorwald Larson.
Indian Oasis	Pima	3,000	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joseph Menager.
Intake	Gila	2,230	6	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	31	0	0	w.	U. S. Reclamation Service.
Jerome	Yavapai	4,743	16	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.53	0.00	0	0	.....	.....	.....	.....	Dr. L. A. Hawkins.
Keams Canyon	Navajo	6,600	10	56.4	.....	86	26	24	3†	42	T.	− 0.19	T.	T.	0	18	12	1	w.	Fred A. Bartram.

TABLE 1.—*Climatological data for May, 1913. 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.																				
Kingman	Mohave	3,326	9	66.0	.....	95	15	34	2†	53	0.00	.....	0.00	0	0	26	0	5	se.	Agent A., T. & S. F. Ry.
Lakeside	Navajo	6,500	14	52.8	.....	82	23	19	4	46	T.	− 0.54	T.	0	0	23	0	8	sw.	Prof. Joseph Peterson.
Lewis Springs	Cochise	4,029	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Lowell Observatory	Coconino	7,180	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Vesto M. Slipher.
McNeal	Cochise	4,150	2	.....	.....	.....	.....	.....	.....	.....	0.14	.....	0.07	0	3	23	5	3	sw.	Gladys Taylor.
Maricopa	Pinal	1,186	36	75.8	− 4.2	107	23	43	2	55	T.	− 0.05	T.	0	0	29	2	0	w.	Agent Southern Pacific Ry.
Marinette	Maricopa	1,155	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Theo. Katzenstein.
Moccasin	Mohave	4,500	1	57.5	.....	105	25	24	4	61	0.03	.....	0.03	0	1	20*	11	0	w.	J. G. Maxwell.
Mohawk Summit	Yuma	538	13	79.7	− 2.2	102	26	57	1	37	0.00	− 0.03	0.00	0	0	27	2	2	n.	Agent Southern Pacific Ry.
Naco	Cochise	4,579	4	.....	.....	.....	.....	.....	.....	.....	0.21	.....	0.16	0	2	30	0	1	.....	Agent E. P. & S. W. R. R.
Natural Bridge	Gila	4,990	24	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.52	0.00	0	0	21	9	1	sw.	D. G. Goodfellow.
Nutrioso	Apache	8,000	4	.....	.....	.....	.....	.....	.....	.....	0.14	.....	0.10	1.2	2	7	20	4	sw.	U. S. Forest Service.
Oracle	Pinal	4,502	20	66.6	− 1.9	91	23	37	2	34	0.11	− 0.25	0.11	0	1	26	4	1	w.	J. W. Lawson.
Osborn	Cochise	4,676	4	.....	.....	.....	.....	.....	.....	.....	0.35	.....	0.35	0	1	21	10	0	w.	Agent E. P. & S. W. R. R.
Paradise	....do	5,436	6	58.9	.....	88	27	30	3	51	0.03	.....	0.03	0	1	18	11	2	sw.	J. C. Hancock.
Parker	Yuma	345	19	75.4	− 1.0	103	24	40	1†	49	0.00	− 0.14	0.00	0	0	28	3	0	sw.	M. A. Isreal, M. D.
Payson	Gila	5,550	5	56.8	.....	90	31	26	2	54	T.	.....	T.	0	0	23	4	4	sw.	Mart McDonald.
Phoenix	Maricopa	1,108	18	73.8	− 1.0	99	26	46	2	39	0.00	− 0.03	0.00	0	0	24	4	3	e.	U. S. Weather Bureau.
Phoenix (1)	.....do	1,092	25	71.8	− 2.0	100	23†	40	3	48	0.00	− 0.06	0.00	0	0	28	1	2	w.	Geo. Acuff.
Phoenix (2)	.....do	1,189	4	74.2	.....	100	23	41	5	52	0.00	.....	0.00	0	0	28	0	3	sw.	Salt. Riv. Val. Nurseries.
Pinal Ranch	Pinal	4,520	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Irion & Craig.
Pinedale	Navajo	6,500	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0	0	.....	.....	.....	.....	E. Thomas, jr.
Pinto	Apache	5,660	7	.....	.....	.....	.....	.....	.....	.....	T.	.....	T	0	0	24	7	0	sw.	Celia F. Henning.
Prescott	Yavapai	5,320	47	55.8	− 2.9	85	22†	23	3	45	T.	− 0.51	T.	0	0	29	2	0	.....	Dr. J. W. Flinn.
Prescott Dry Farm	.....do	5,008	1	62.2	.....	88	23	36	29	39	0.04	.....	0.04	0	1	25	5	1	s.	L. L. Bates.
Quartzsite	Yuma	800	6	76.4	.....	105	22†	42	3	45	0.00	.....	0.00	0	0	23	7	1	s.	W. E. Scott.
Rice	Gila	2,540	31	66.3[d]	− 4.0	.....	.....	32	4	53[b]	0.00	− 0.26	0.00	0	0	27	4	0	sw.	Arthur Pritchard.
Roosevelt	.....do	2,175	8	77.0	.....	103	27†	47	3	42	0.00	.....	0.00	0	0	25	6	0	w.	U. S. Reclamation Service.
Sacaton	Pinal	1,280	6	74.0	.....	103	23†	39	3	49	0.00	.....	0.00	0	0	.....	.....	.....	.....	E. W. Hudson.
St. Johns	Apache	5,650	9	54.0	.....	90	23	25	4	47	0.00	.....	0.00	0	0	24	4	3	sw.	Alexander Shreeve.
St. Michaels	.....do	6,950	25	55.0	+ 1.6	84	26	23	4	44	T.	− 0.63	T.	T.	0	22	8	1	sw.	Rev. Anselm Weber, O.F.M.
San Simon	Cochise	3,609	27	66.4	− 9.9	98	27†	30	4	61	T.	− 0.15	T.	0	0	28	3	0	se.	Agent Southern Pacific Ry.
Seligman	Yavapai	5,219	6	57.0	.....	87	5	22	2	54	0.00	.....	0.00	0	0	22	0	9	sw.	Lib. A., T. & S. F. Ry.
Sentinel	Maricopa	685	15	77.8	− 1.2	106	22	48	3†	46	0.00	0.00	0.00	0	0	31	0	0	.....	Agent Southern Pacific Ry.
Silverbell	Pima	2,664	8	.....	.....	104	23	.....	.....	.....	0.30	.....	0.30	0	1	26	0	5	s.	Imperial Copper Co.
Snowflake	Navajo	5,644	6	55.2	.....	87	23	18	4	56	T.	.....	T.	0	0	18	11	2	sw.	William J. Flake.
Springerville	Apache	6,862	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Forest Service.
Supai	Coconino	3,200	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Laura B. Symons.
Tempe	Maricopa	1,165	9	72.6	.....	102	27	44	2†	53	T.	.....	T.	0	0	24	7	0	nw.	F. H. Simmons.
Thatcher	Graham	2,800	9	70.4	.....	104	22	34	4	55	0.08	.....	0.05	0	2	23	7	1	w.	J. H. Larson.
Tombstone	Cochise	4,550	17	70.6	+ 2.7	97	22	40	1	39	0.07	− 0.17	0.07	0	1	24	7	0	sw.	F. N. Walcott.
Truxton	Mohave	3,997	4	62.4	.....	95	23	30	2	50	T.	.....	T.	0	0	17	7	7	s.	Truxton Cany. Ind. School.
Tuba	Coconino	4,500	13	62.8	+ 1.1	90	23	30	3	43	T.	− 0.19	T.	0	0	19	12	0	sw.	Ira Bell.
Tucson	Pima	2,390	31	71.1	− 2.0	101	23	38	4	49	T.	− 0.13	T.	0	0	15	15	1	sw.	University of Arizona.
Tucson (1)	.....do	2,380	5	67.9	.....	101	23†	32	4†	59[a]	0.00	.....	0.00	0	0	24	7	0	w.	Rev. James F. Record.
Tucson (2)	.....do	2,526	3	70.4	.....	100	27	38	2	48	T.	.....	T.	0	0	24	5	2	w.	U. S. Coast and Geodetic Sur.
Vail	.....do	3,421	14	65.0	.....	98	26	32	2	51[a]	0.60	+ 0.58	0.60	0	1	28	0	3	.....	Agent Southern Pacific Ry.
Walnut Grove	Yavapai	3,649	20	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.09	0.00	0	0	.....	.....	.....	.....	J. O. Carter.
Wickenburg	Maricopa	2,072	14	67.0	− 2.7	.....	.....	36	12	52[b]	0.00	− 0.19	0.00	0	0	31	0	0	s.	Agent S. F., P. & P. Ry.
Willcox	Cochise	4,164	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent Southern Pacific Ry.
Williams	Coconino	6,750	13	53.6	− 0.4	83	22†	23	2	45	T.	− 0.90	T.	T.	0	28	3	0	.....	E. J. Nordyke.
Winslow	Navajo	4,855	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Winslow High School.
Yuma	Yuma	141	32	74.9	− 1.9	100	11	47	2	43	0.00	− 0.03	0.00	0	0	30	1	0	s.	U. S. Weather Bureau.
Yuma (1)	.....do	150	6	70.2	.....	97	23	40	2	47	0.00	.....	0.00	0	0	29	2	0	sw.	C. J. Wood.
Nevada.																				
Caliente	Lincoln	4,407	3	56.3	.....	87	26	22	3	51	0.05	.....	0.05	0	1	29	1	2	nc.	Salt Lake Route.
Las Vegas	Clark	2,033	11	71.0	+ 6.0	99	23†	42	8	46	T.	− 0.10	T.	0	0	23	6	2	s.	C. P. Squires.
Logan	.....do	1,355	6	69.8	.....	100	24†	38	3	50	0.00	.....	0.00	0	0	31	0	0	s.	Orin 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 May, 1913. 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.																																	
Big Piney	Green																		.25	.10	T.				T.			T.		T.	.41	T.	1.56
Daniel	do	T.	.80					T.								T.			.25	.10	T.				T.		T.	T.		T.	.41	T.	1.56
Eden	do	T.	.04						T.									T.	.08	.10												0.22
Green River	do		.03						T.									T.	.02						.03			.02				0.10
Pinedale	do	.10	.60													T.	.01			.08	.14									.02		0.95
Wamsutter	do	T.								T.					.04			.03	.02					.01							.02	0.12
Willow Creek Cabin	do	.14	.84		T.												.07	T.		.08	.09					.22					.47	1.91
Colorado.																																	
Ashcroft	Grand																																
Blue Valley Ranch	Yampa																																
Breckenridge	Grand																																
Buford	White																																
Cascade	San Juan			T.					.01											.07					.05			.08	.03				0.24
Cedaredge	Gunnison																			.08								.06					0.14
Cochetopa	do							T.	.05											.22							T.			T.	T.		0.27
Collbran	Grand		T.												26			T.		20						T.	T.	.01	T.				0.47
Columbine	Yampa														.09					.35	.90	.06			.03		.02		.01				1.46
Columbine Ranch	Gunnison								T.											.14													0.14
Corona ‖	Grand			.56						.65	.02				.33	.19		.36	.08		.48	.30	.05		.02				.02	.03			3.09
Cortez	San Juan																											T.					T.
Crawford (near)	Gunnison														11				29														0.40
Crested Butte	do								.22						10					.07					T.		.05	.15				0.59
Delta	do														02			T.		.07					.05			.09	.07			0.30
Dillon	Grand			.03						.13					13						.05				.03		.05					0.42
Durango	San Juan																								.07			.67					0.74
Eureka	do	T.	T.					T.	.10						T.	.10	T.	T.		.22	T.	T.		T.	T.	T.	T.	.10	T.				0.52
Fraser ‖	Grand			.20						.02						.10		.20			.05	.20							.10			0.87
Fruita	do		T.	.02										T.	.05			T.		.06		T.						.02				0.15
Glade Park	do			.20										T.	.20		T.			.09							T.	T.	T.				0.49
Gladstone	San Juan	T.	T.	.02	.01				.01					T.	T.					.26						T.	T.	.04	.02				0.36
Glen'd Spr'gs (near)	Grand														18					T.													0.18
Grand Junction	do		T.	.04										T.	.01			T.		.06							T.	.01					0.12
Grandlake	do		.38	.15				.30	.10						T.		T.	T.	T.	T.	.35		T.					T.	T.				1.28
Grand Valley	do	T.		T.											.07			T.		.22					T.	T.		T.					0.29
Gunnison	Gunnison								T.									T.										.04					0.04
Hayden	Yampa									T.								T.		.08	.08	.09			T.			T.					0.25
Hesperus (near)	La Plata																											.04					0.04
Horsefly	Gunnison																	T.			.48						T.	.37	T.		T.	T.	0.85
Ironton	do				T.					T.										T.	.36				T.	T.	T.	T.					0.36
Lake City	do			.07	.03				.03									.01		.18							.02	.03	.06	.01			0.44
Lay	Yampa									.14	.09	.02																.15					0.40
Mancos	San Juan																										T.	T.	T.				T.
Marble	Grand			.18											12					.14								.10	T.				0.54
Marshall Pass	Gunnison																			.17							.15	.15					0.47
Meeker (near)	White		T.	.03											03					.25	.15												0.46
Montrose	Gunnison			T.											02					.13	.08							.34					0.57
Nast	Grand		T.	.12					T.						06					T.													0.18
Pagosa Springs	San Juan																											.08	T.			T.	0.08
Palisades	Grand		T.	.12											02					.20								T.					0.34
Paonia	Gunnison														25					.15						T.		T.					0.40
Pitkin	do														07												.05	.07					0.19
Pyramid	Yampa																																
Redcliff	Grand																																
Redvale	San Miguel																			.27								.33					0.60
Rico	Dolores			.13		.03		T.	.06						T.							.07						T.		.05			0.34
Rifle	Grand														09			T.		09						T.							0.18
River Portal	Gunnison														31																		0.31
Sapinero (near)	do		T.	.02					.02						25					.22					.05		T.	.13					0.69
Shoshone	Grand														25					.05	.04	.01						.03	.06				0.44
Silverton (near)	San Juan			T.														T.	T.									20	.08				0.28
Spruce Lodge	Grand		T.	.45					.04	.40					27			21			24	.18		T.	.07		.09	.01	.04		T.		2.00
Steamboat Springs	Yampa								T.					52						T.	.51				45			05	T.				1.53
Tacoma	San Juan			T.				T.										T.		T.				T.	T.	T.	T.	22	.01				0.23
Telluride	San Miguel			T.					T.						T.			T.		T.	.12			.03			T.	11	.04				0.30
Terminal Dam	San Juan																																
Yampa (near)	Yampa		T.						T.						14						T.	T.					T.	T.	T.	T.			0.14
Utah.																																	
Aneth	San Juan																											20					0.20
Bluff	do																																0.00
Canaan	Colorado																																
Castle Dale	Green																											05					0.05
Cisco	Grand																																
Dragon	Green		T.													T.			T.	.28	T.			T.			T.						0.28
Duchesne	do		T.																T.	T.	T.			T.	T.		.09	.03	.04				0.16
Elkhorn	do																																
Emery	do																											T.					T.
Escalante	Colorado																																0.00
Fort Duchesne	Green																		T.		T.		T.		T.		T.						T.
Fruitland	do																																
Grayson	San Juan																																0.00
Green River	Green																																0.00
Hanksville	Colorado																																0.00
Hite	do																			T.								T.					T.
Hurricane	do																												25				0.25
Kanab	do																																
La Sal	San Juan																																
Leeds (near)	Colorado																											22					0.22
Loa	do																																
Manila	Green		.13																01		20							15	.13				0.62
Moab	Grand		T.																T.		13							06	T.				0.19
Monticello	San Juan																																
Mountain Home	Green			.05																								20					0.25
New Harmony	Colorado																												25				0.25
Orderville	do																													T.			T.
Pine Valley	do	.02	T.																									42	.06				0.50
Price	Green																			.04								07					0.11
Ranch	Colorado																																0.00
San Rafael	Green																																0.00

TABLE 2.—*Daily precipitation for May, 1913. 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.																																	
St. George	Colorado																			.49	.01								.05				0.05
Scofield	Green	.10	T.																									.17					0.77
Springdale	Colorado																																
Strawberry, east	Green	.20	.15											T.				T.	T.	.45	T.						T.	.36					1.16
Teasdale	Colorado		T.																	T.													T.
Thompsons	Grand																			.03								T.					0.03
Tropic	Colorado		T.																														T.
Trout Creek Ranger	Green																																
Vernal	do																									.01							0.01
Victor	do																																0.00
White Rocks	do		.02																		T.						T.	T.					0.02
Woodside	do																												.39				0.39
New Mexico.																																	
Alma	Gila			T.																					T.	*	.04	.02					0.06
Aragon	do																											.20					0.20
Aztec	San Juan																											T.					T.
Bergers Ranch	Little Colorado.																											.18					0.18
Blackrock	do																							T.				T.					T.
Bloomfield	San Juan													T.				T.									T.	.19					0.19
Cambray	Mimbres																																0.00
Cliff	Gila																								.05			.17					0.22
Columbus	Mimbres																							T.				T.					T.
Deming	do																																0.00
Dulce	San Juan																											.03				.10	0.13
Fort Bayard	Mimbres																							T.	.01	.15	T.	.23	.08				0.47
Fruitland	San Juan																																0.00
Gage	Mimbres																							T.	T.								T.
Gila Planting Station.	do																							T.	T.	.08	T.	.06	.06				0.20
G. O. S. Ranch	Gila																							.13	.06		T.	.08					0.27
Hachita	do																									T.		.20					0.20
Haynes	San Juan																											.04			T.	T.	0.04
Hermanes	Mimbres																																0.00
Lordsburg	Gila																							T.									T.
Luna	do			T.																				.20	T.		.18						0.38
Mimbres	Mimbres																							.14	.09			.22					0.45
Pinos Altos (near)	Gila																							.15	.21			.10					0.46
Pratt	do																										T.						T.
Putnam	San Juan																								T.		T.	T.					T.
Redrock	Gila																							T.				.12					0.12
Rodeo	do																																
Silver City	Mimbres																							.02	.16			.03					0.21
Arizona.																																	
Allaires Ranch ‖	Sonora																								.02	.03							0.05
Alpine	Gila																											.05					0.05
Ashfork	Verde																																0.00
Aztec	Gila																																0.00
Benson	San Pedro																									25							0.25
Bisbee	do																								.10	.10							0.20
Blue	Gila			T.																					.05	T.	T.	.11					0.16
Bonita	do																								.10								0.10
Bowie	do																										T.						T.
Buckeye ‖	do																																0.00
Canille	San Pedro																								T.	T.							T.
Casa Grande	Gila																																0.00
Casa Grande Ruins	do																									T.							T.
Cave Creek (near)	Desert																																0.00
Chandler	Salt																																0.00
Chin Lee	L. Colorado																											.02					0.02
Chlarsons Mill	Gila																								.23								0.23
Clifton	do																											T.					T.
Cochise	Desert																								.02	.01		.03					0.06
Columbia	Agua Fria																																0.00
Courtland	White																					.22											0.22
Dos Cabezos	Desert																								.22								0.22
Douglas	Sonora			T.																				T.	.17	.02							0.19
Dudleyville	Gila																								T.	T.		T.					T.
Elgin	San Pedro																																0.00
Fairbank	do																								T.								T.
Flagstaff	L. Colorado																									T.							T.
Flagstaff (1)	do																									T.							T.
Florence ‖	Gila																																0.00
Fort Apache ‖	Salt																																0.00
Fort Huachuca ‖	San Pedro																									08	.20						0.28
Fort Mohave	Colorado																																0.00
Gilabend	Gila																									.05							0.05
Globe	Salt																																0.00
Grand Canyon	Colorado		T.																														T.
Grand Canyon (1)	do																																
Granite Reef Dam	Salt																																0.00
Greer	L. Colorado																																
Hereford	San Pedro																							.02	.02								0.04
Holbrook	L. Colorado																																
Indian Oasis	Desert																																
Intake	Salt																																0.00
Jerome	Verde																																0.00
Keams Canyon	L. Colorado			T.																								T.					T.
Kingman	Colorado																																0.00
Lakeside	L. Colorado																											T.					T.
Lewis Springs	San Pedro																																
Lowell Observatory	L. Colorado																																
McNeal	White																								.05	.02	.07						0.14
Maricopa ‖	Gila																									T.							T.
Marinette	Agua Fria																																
Moccasin	Colorado														.03																		0.03
Mohawk Summit	Gila																																0.00
Naco	San Pedro																									.16	.05						0.21

TABLE 2.—*Daily precipitation for May, 1913. 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.																																	
Natural Bridge	Verde																																0.00
Nutrioso	L. Colorado			.10																					T.	T.	.04						0.14
Oracle	San Pedro																									.11							0.11
Osborn	do																		.35														0.35
Paradise	Desert																								T.	.03							0.03
Parker	Colorado																																0.00
Payson	Gila																								T.								T.
Phoenix	Salt																																0.00
Phoenix (1)	do																																0.00
Phoenix (2)	do																																0.00
Pinal Ranch ‖	Gila																																
Pinedale	L. Colorado																																0.00
Pinto	do			T.																				T.				T.				T.
Prescott	Hassayampa																								T.								T.
Prescott Dry Farm	Verde																									.04							0.04
Quartzsite	Colorado																																0.00
Rice	Gila																																0.00
Roosevelt	Salt																																0.00
Sacaton	Gila																																0.00
St. Johns	Little Colorado.																																0.00
St. Michaels	do				T.																			T.	T.	T.	T.	T.					T.
San Simon	Gila																								T.								T.
Seligman	Verde																																0.00
Sentinel	Gila																																0.00
Silverbell	Santa Cruz																									.30							0.30
Snowflake	Little Colorado.																								T.								T.
Springerville	do																																
Supai	Colorado																																
Tempe	Salt																								T.								T.
Thatcher	Gila																							.05				.03					0.08
Tombstone	San Pedro																								.07								0.07
Truxton	Colorado																									T.				T.			T.
Tuba	Little Colorado.																										T.						T.
Tucson	Santa Cruz																								T.	T.							T
Tucson (1)	do																																0.00
Tucson (2)	do																								T.								T.
Vail	do																									.60							0.60
Walnut Grove	Hassayampa																																0.00
Wickenburg	do																																0.00
Willcox	Desert																																
Williams	Colorado		T.																														T.
Winslow	Little Colorado.																																
Yuma	Colorado																																0.00
Yuma (1)	do																																0.00
Nevada.																																	
Caliente	Colorado																		T.											.05			0.05
Las Vegas	do																													T.			T.
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.

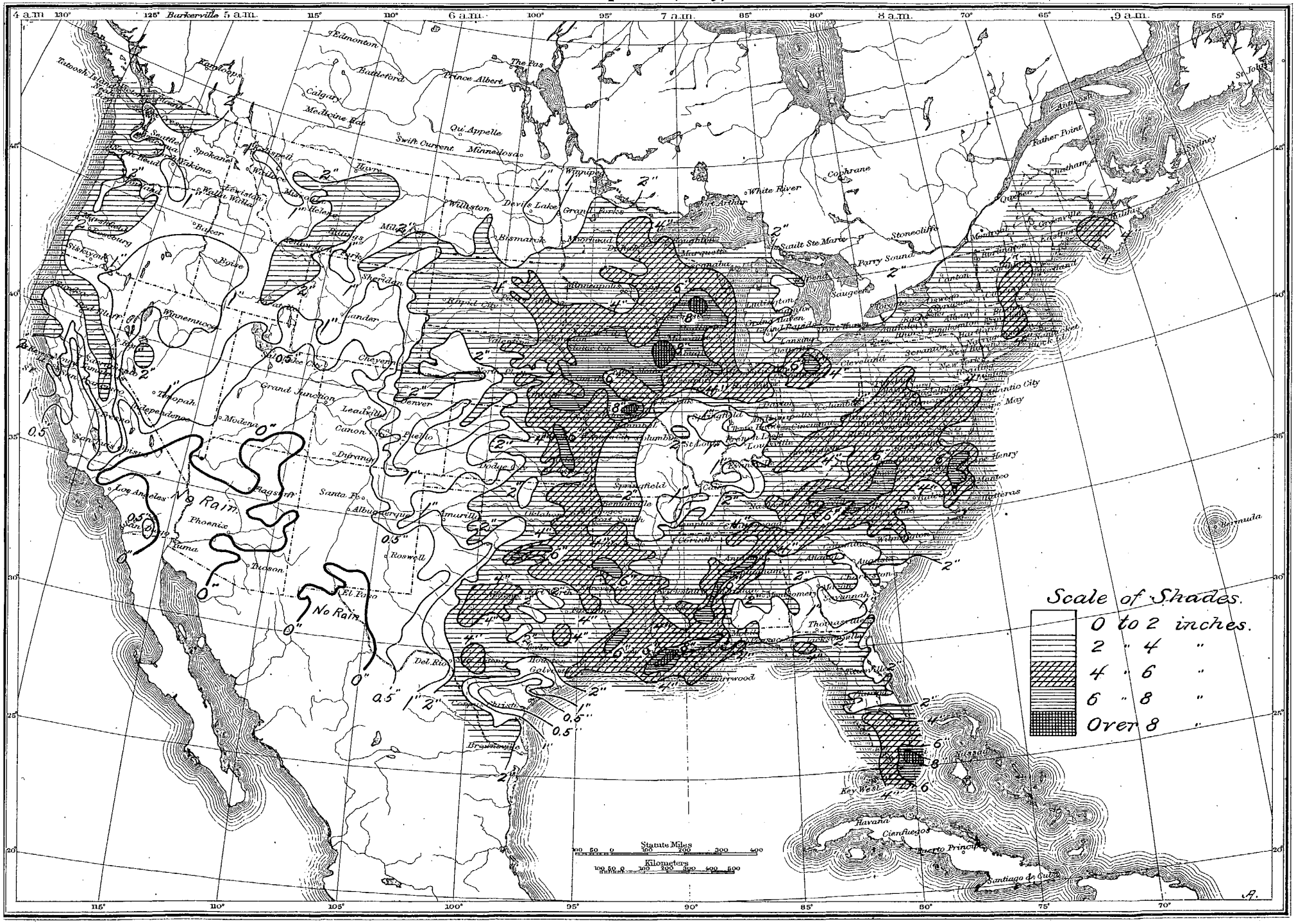
TABLE 3.—*Maximum and minimum temperatures at selected stations for May, 1913. District No. 9, Colorado Valley.*

Date.	Wyoming.				Colorado.										Utah.										New Mexico.			
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Hite.		Moab.		St. George.		Vernal.		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....	43	26	44	34	64	34	71	49	69	27	68	40	66	29	72	22	72	59	74	57	65	45	66	33	74	34	68	40
2....	39	34	46	30	52	35	52	40	63	17	50	33	58	28	70	25	66	44	74	37	67	38	60	29	63	34	65	39
3....	45	10	55	25	56	34	61	35	54	17	53	24	54	25	66	23	69	45	67	38	73	33	68	21	64	28	61	32
4....	59	29	61	36	68	28	69	34	62	14	63	19	62	19	67	21	79	42	77	33	82	40	77	30	72	25	68	34
5....	57	23	67	31	71	35	76	39	66	21	79	25	67	24	73	26	86	47	83	38	88	39	80	29	79	31	74	39
6....	64	22	74	31	74	35	80	46	70	19	75	30	70	24	70	21	89	47	89	60	92	43	82	30	83	31	77	40
7....	66	26	75	45	72	41	82	52	68	25	79	31	71	26	75	25	89	51	89	47	88	39	85	29	84	43	79	52
8....	67	26	76	44	72	42	77	59	69	39	77	39	69	28	74	28	86	58	86	54	86	44	84	30	80	42	74	41
9....	68	23	80	42	74	35	81	50	79	29	73	33	72	32	77	35	87	49	89	42	89	45	85	31	81	33	77	43
10....	69	26	70	43	75	37	82	50	71	24	76	31	71	28	80	32	88	54	88	50	90	50	84	30	83	36	78	46
11....	64	31	75	43	76	37	80	47	74	25	74	33	72	28	78	31	88	60	88	47	90	51	85	30	82	38	79	49
12....	65	33	59	43	75	37	84	56	75	24	76	29	74	26	73	32	90	54	87	47	86	62	85	31	84	37	79	49
13....	57	30	59	31	66	38	76	49	64	26	77	30	68	33	75	31	81	66	82	60	89	40	84	28	77	42	76	43
14....	54	25	64	29	61	31	66	44	59	31	61	35	66	31	73	30	76	52	74	44	81	37	85	30	69	30	70	41
15....	53	27	71	42	67	30	74	44	61	21	65	23	62	21	78	31	82	47	82	39	89	37	84	28	74	26	73	40
16....	55	23	61	45	74	34	80	50	69	25	67	45	73	31	75	32	89	59	88	48	91	39	85	31	81	32	76	42
17....	62	42	75	41	74	38	81	53	70	31	72	39	69	42	71	30	90	58	90	50	92	51	84	29	86	39	79	49
18....	67	38	64	40	74	36	83	56	71	27	75	43	74	32	76	31	87	65	87	56	83	57	92	53	84	41	79	43
19....	61	33	51	36	66	44	68	45	61	33	66	34	64	34	80	32	74	65	68	53	82	50	90	32	76	49	75	43
20....	54	24	61	31	67	31	67	42	61	19	54	32	55	34	81	35	81	48	76	38	86	42	89	30	72	29	75	48
21....	58	29	68	33	73	41	75	42	68	25	65	32	62	35	80	32	88	59	83	48	93	48	87	29	81	41	80	49
22....	70	27	77	32	78	40	82	50	75	23	74	30	74	26	79	35	93	58	90	44	97	52	91	32	85	37	83	52
23....	75	34	81	38	83	42	88	53	79	27	79	34	79	29	83	37	97	55	97	46	97	50	90	32	89	41	80	50
24....	71	33	82	42	80	43	87	56	70	29	78	40	76	36	83	38	95	58	96	54	96	56	94	34	89	43	83	55
25....	70	40	85	42	79	44	87	53	72	32	79	39	72	38	81	39	94	74	95	54	96	59	94	32	86	47	82	53
26....	79	32	80	45	82	44	90	60	78	37	81	42	79	34	79	48	97	59	97	52	97	59	95	35	92	45	85	55
27....	74	32	80	48	75	46	79	64	70	41	74	44	75	35	80	47	92	69	92	63	92	58	96	36	78	55	82	51
28....	73	34	81	51	78	44	87	57	76	39	79	40	73	35	71	43	94	69	93	61	83	57	106	39	84	52	84	52
29....	69	43	79	50	78	41	84	59	78	38	80	39	82	38	81	45	85	63	87	59	75	44	105	37	84	41	80	45
30....	69	42	82	49	81	38	86	50	76	29	81	35	80	35	82	41	91	53	91	46	85	43	101	35	87	45	81	45
31....	75	39	83	42	82	39	88	58	80	37	80	39	81	35	80	42	93	54	94	49	91	47	90	32	91	40	83	49
Mns..	63.0	30.2	69.7	39.2	72.5	37.9	78.2	49.7	69.6	27.5	71.9	34.3	70.0	30.7	76.2	32.9	86.1	56.2	85.6	48.8	86.7	46.9	86.5	30.9	80.1	38.3	76.9	45.5

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	77	46	51	32	70	27	80	22	82	40	73	54	57	35	62	50	79	54	74	51	70	46
2	76	38	48	21	61	29	64	20	82	40	73	46	54	26	55	27	72	41	82	47	72	40
3	78	43	51	18	61	28	66	21	85	43	77	48	58	23	52	31	72	44	86	50	79	38
4	78	47	64	20	71	31	70	24	93	52	82	50	69	27	64	23	79	38	91	50	88	44
5	74	47	70	23	81	36	70	26	96	50	91	52	78	33	74	30	90	41	96	55	94	46
6	71	44	70	30	82	39	72	28	99	58	94	56	78	35	73	32	95	48	98	57	95	48
7	73	40	67	29	81	36	74	30	98	56	89	56	72	35	75	34	91	48	93	55	90	46
8	74	53	65	27	78	35	76	32	94	54	87	57	69	34	70	33	87	51	92	56	90	48
9	80	50	69	29	81	37	76	34	98	54	89	57	75	36	74	34	91	50	95	58	92	48
10	82	52	69	31	83	38	78	34	98	56	92	56	76	35	74	37	93	50	97	56	92	51
11	83	55	71	29	84	36	78	36	99	61	93	58	77	37	76	35	93	51	100	57	93	49
12	77	47	68	31	81	39	80	34	98	57	92	60	74	37	75	41	90	56	96	58	88	51
13	81	50	62	32	75	33	78	34	98	49	85	61	69	43	67	38	87	54	90	58	84	51
14	75	47	63	23	75	32	80	34	97	52	86	53	69	30	63	32	84	49	94	55	81	49
15	80	50	66	25	78	35	80	36	98	55	88	55	73	32	67	27	88	48	96	55	90	46
16	78	43	70	29	81	37	80	36	99	56	91	55	77	36	74	32	92	49	97	57	94	52
17	80	50	71	35	84	40	82	34	100	57	94	57	79	40	76	44	92	53	97	58	94	53
18	81	52	67	42	82	37	80	36	95	58	93	60	77	37	75	38	92	52	92	59	89	52
19	80	56	64	41	76	37	78	36	95	58	85	59	73	41	70	39	88	53	89	62	90	48
20	79	49	69	30	80	40	80	36	96	56	89	57	78	39	70	31	89	53	93	57	96	49
21	82	54	71	37	83	44	78	34	99	58	91	60	81	42	76	38	93	53	95	56	99	49
22	86	58	78	37	90	47	80	34	100	58	96	64	85	45	80	38	96	55	99	59	99	49
23	88	62	75	38	90	57	80	36	98	61	98	65	85	45	83	44	101	57	99	62	96	52
24	86	62	75	45	89	58	82	36	103	63	94	67	80	52	81	50	95	70	97	63	100	64
25	81	53	74	39	95	48	81	38	101	67	98	72	82	47	77	49	93	70	98	62	100	57
26	85	55	76	43	90	52	82	38	102	61	99	67	78	48	84	42	98	59	95	67	98	56
27	85	50	74	40	94	51	82	36	99	62	95	65	74	44	75	47	99	61	95	60	95	57
28	84	55	68	37	86	40	82	30	85	49	89	64	73	51	80	44	95	58	80	58	86	60
29	82	54	61	37	79	37	84	34	89	51	82	55	70	32	75	38	87	52	86	54	74	46
30	82	53	68	26	83	40	85	32	90	58	89	55	75	33	79	36	93	50	94	55	87	44
31	84	53	71	29	90	45	85	30	100	58	96	59	81	36	81	39	95	51	94	56	93	54
Mean	80.2	50.6	67.3	31.8	81.1	39.4	78.2	32.5	95.7	55.1	89.4	58.1	74.1	37.6	72.8	37.2	90.0	52.2	92.9	56.9	89.9	49.8

[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.

Total Precipitation, May, 1913.



Departure of the Mean Temperature from the Normal, May, 1913.