CLIMATOLOGICAL DATA FOR MAY, 1911.

DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

May was somewhat warmer than the average in the northern part of the Colorado drainage area, and cooler than the average in the southern part. There were a number of sharp changes in temperature, but in this respect the month did not differ from the average, and in addition the extremes reached were well within the limits common to May. A wide departure from the average was noted, however, in connection with the rainfall. Of the stations reporting only one reported as much as the normal amount, and taken as a whole the average precipitation was less than one-third of the normal. The deficiency was least marked on the drainage of the San Juan, yet at Durango there have been only three drier Mays in 16 years; at Grand Junction, on the Grand, the least precipitation for May in 20 years was recorded. Farther south on the Mimbres, Gila, and the Colorado, proper, there was almost an entire absence of precipitation.

Except for a few short periods low pressure exerted the controlling influence on weather conditions. As usual with the advance of the season toward midsummer there is a tendency of the nearly permanent southwestern low pressure in the vicinity of the Gulf of California to spread northward. It is not likely that this movement was any stronger during May, 1911, than usual. The persistency of low pressure, generally ill-defined and of a shifting character, without precipitation, is probably to be accounted for by the small number of high-pressure areas of sufficient strength to move inland from the Pacific.

TEMPERATURE.

The mean of the 141 stations reporting was 60.2°, or 0.3° below the normal. By subdivisions the means and departures were: Western Wyoming, 47.7°, +1.3°; western Colorado, 50.8°, +0.7°; eastern Utah, 56.6°, +0.4°; western New Mexico, 60.1°, +0.4°; Arizona, 67.2°, −1.1°; and southeastern Nevada, 63.3°. The highest and lowest monthly means, 81.8° and 30.6°, were as usual at Mokawk Summit, Ariz., and Corono, Colo., respectively. After the first day of the month, which was cool, there was about a week with temperatures above the normal, the excess being marked in western Colorado. During the rest of the month cool weather predominated with an occasional warm day here and there. Of the cool periods the 15th and 16th, 26th–28th throughout the district, and the 19th and 20th in western Colorado were the most notable. By subdivisions the extremes were: Western Wyoming, 86° at Green River and 12° at Battle Mountain; western Colorado, 90° at Delta and 9° near Silverton; eastern Utah, 94° at Springdale and 13° at Scofield; western New Mexico, 100° at Columbus and 18° at Luna; Arizona, 109° at Gilabend and 15° at Flagstaff No. 2; southeastern Nevada, 97° at Logan and 33° at Caliente.

Frosts were frequent in all parts of the district, except southern New Mexico and southern Arizona. In Wyoming hard freezing weather was general. In parts of the lower Grand Valley the temperature was slightly below the freezing point on the night of the 10th–11th. Apples dropped badly, probably on account of the cold. In southwestern Colorado freezing temperatures occurred on the 16th. In localities fruit was killed, in others but little harm was done. In Montrose and Delta Counties considerable damage was done by frost on the 20th and 21st. In Utah the minimum temperature of the month was below the freezing point at three-fourths of the stations, principally on the 11th. No reports have been received as to the extent of the damage. In northwestern New Mexico hard freezing weather occurred on the 11th. Frosts also occurred on the 16th, 20th, 21st, and 27th in the San Juan and upper Gila Valleys, damaging fruit, gardens, and corn.

PRECIPITATION.

The average for the 189 stations reporting was 0.19 inch, or 0.47 inch below the normal. The average for May, 1910, was 0.38 inch. By subdivisions the means and departures were: Green, 0.31, −0.88; Grand, 0.45, −0.94; San Juan, 0.44, −0.67; Little Colorado, 0.01, −0.56; Gila, 0.03, −0.21; Mimbres, trace, −0.17; and Colorado, proper, 0.08, −0.43 inch. The greatest monthly amount was 2.14 inches at Corona, Colo., while there was none at 1 station in western Colorado, 10 in eastern Utah, 9 in western New Mexico, 1 in southeastern Nevada, and 55 in Arizona. The average number of days with 0.01 inch or more of precipitation was 3 in western Wyoming, 4 in western Colorado, 1 in eastern Utah, 1 in western New Mexico, 1 in southeastern Nevada, and 0 in Arizona, and for the district as a whole 2 days.

MISCELLANEOUS.

The sunshine was above the average. Grand Junction reported 76, Durango 78, Phoenix 94, and Flagstaff and Yuma 97 per cent of the possible.

The mean relative humidity was lower than the average, especially in northern Arizona. The following values were reported: Grand Junction 45, Durango 42, Flagstaff 32, Phoenix 33, and Yuma 34 per cent.

NOTES.

Bloomfield, N. Mex.—May was very dry and windy. Frost caused much damage to all crops. The range is good.

Fruitland, N. Mex.—May will go on record as a phenomenal month. Fruit is gone; hay, corn, and wheat were frozen some, but all crops are growing now.

Luna, N. Mex.—May was very dry and cold. Irrigation water is scarce.

THE COLORADO RIVER.

For May the volume discharged by the Green River at Elgin, Utah, was about the average; that of the Grand at Fruita, Colo., was appreciably higher than the average, and it is probable that the San Juan was fully up to the average; data for previous Mays, however, are not available for comparison. After the first four days, during which period the Green, the Grand, and the San Juan fell slowly, these rivers that form the Colorado rose steadily, the San Juan reaching the highest stage of the month on the 10th, the Grand on the 11th, and the Green on the 13th. High stages continued during the rest of the month. In the Colorado, proper, at Grand Canyon, Ariz., the maximum stage, 48 feet, occurred on the 13th, and the lowest, 35 feet, on the 20th and 21st. At Topock, Ariz., near Needles, Cal., there was a slight crest on the 4th and 5th, followed by a decline. Beginning with the 9th there was a steady rise, culminating on the 15th and 16th with a gauge height of 15 feet. At Yuma the lowest stage occurred on the 1st, and the highest on the 19th and 20th, the range being 3.9 feet.

FOREST FIRES IN ARIZONA.

Forest fires broke out in the northern section of the Garces National Forest early in May. Three troops of soldiers were ordered from Fort Huachuca to assist the forest rangers in fighting the fire, which spread over a large area to Garden Canyon, on the Military Reservation. Another fire was discovered near Rainsey Canyon, covering an area of 5 miles in length and about three-fourths of a mile in width. Owing to the high southwest winds then prevailing the fires were checked with great difficulty during the first four days; but after the winds decreased in force the fires were extinguished without great effort.

TABLE 1.—*Climatological data for May, 1911. District No. 9, Colorado Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Battle Mountain	Carbon	7,300		48.6[k]		77	31	12	1	51[k]						5[k]	14[k]	1[k]	w.	U. S. Forest Service.
Daniel	Uinta	6,740	12	44.0	+ 1.3	78	5	16	11	50	0.82	− 0.46	0.50	4.0	2	12	19	0	nw.	J. M. Van Dervort.
Eden	Sweetwater	6,577	2	48.7		81	31	17	11†	51	0.17		0.04	0.6	6	15	10	6	w.	Eden Valley L. & I. Co.
Green River	do	6,083	6	51.5		86	4	21	11	51	0.05		0.04	0	2	12	14	5	w.	Geo. W. Maxom.
Pinedale	Fremont	7,167	5	45.8[c]		79	31	15	10	54[c]	0.02		0.02	0	1	14[c]	9[c]	5[c]	nw.[c]	U. S. Forest Service.
Willow Creek Cabin	do	7,500	2																	Do.
Colorado.																				
Ashcroft	Pitkin	9,483	9	44.2		71	30	15	11†	43	1.84		0.65	9.0	14					Dan McArthur.
Breckenridge	Summit	9,536	22	40.9	+ 2.0	68	25	13	11†	42	1.02	− 1.10	0.58	T.	4	0	27	4	sw.	Mrs. J. G. Thompson.
Buford	Rio Blanca										0.21		0.15	0	2	23	8	0	w.	Mrs. H. Genier.
Cascade	San Juan	8,900	4								1.32		0.49	0	9	20	1	10		San Juan W. & P. Co.
Cedaredge	Delta	6,175	13	56.8	+ 0.7	81	31	29	11†	41	0.00	− 0.91	0.00	0	0	9	21	1		Harry A. Cobbett.
Chromo	Archuleta	7,500	5	50.2		81	13†	17	11†	54	0.78		0.50	0	3	17	4	10	sw.	Lawrence Nolan.
Cochetopa	Saguache	9,088	2								0.30		0.15	0	5	8	22	1	w.	Miss Bessie McDonough.
Collbran	Mesa	6,000	18	55.1	+ 1.7	80	31	27	11	38	0.01	− 1.48	0.01	0	1	9	20	2	sw.	A. A. Wood.
Columbine	Routt	8,766	1								1.26		0.30	T.	8	3	25	3	sw.	Mrs. M. A. Caron.
Columbine Ranch	Delta	6,925	1								0.37		0.20	0	2	17	10	4	s.	Geo. W. Wade.
Corona	Grand	11,660	4	30.6		50	25†	10	19†	30	2.14		0.98	16.5	6				w.	U. S. Weather Bureau.
Cortez	Montezuma	6,100																		Wm. C. Syrett.
Craig	Routt			51.5[f]		85	31	20	20	55[f]	0.39		0.36	0	3					Joseph F. Haubrich.
Crawford (near)	Montrose	6,600	1	54.2		79	31	28	11†	36	0.30		0.18	T.	4	23	4	4		C. W. Roe.
Crested Butte	Gunnison	8,867	1	42.9		70	30	13	11	44	1.47		0.50	0	7	11	15	5	w.	Charles L. Ross.
Delta	Delta	4,965	21	59.8	+ 0.8	90	31	27	11	53	T.	− 0.66	T.	0	0	18	10	3		E. M. Getts.
Dillon	Summit	8,800	1	43.6		70	25†	15	1†	49	0.33		0.21	4.0	2	15	11	5	n.	Harry T. Hamilton.
Durango	La Plata	6,534	16	53.8	− 1.2	77	30	26	11	41	0.59	− 0.55	0.46	0	5	12	14	5	nw.	U. S. Weather Bureau.
Eureka	San Juan	10,000	4								0.91		0.33	0	5	18	8	5		San Juan W. & P. Co.
Fraser	Grand	8,560	2	41.0		68	5†	10	11	51	0.30		0.10	2.0	5	11	9	11	w.	L. D. C. Gaskill.
Fruita	Mesa	4,510	12	59.8	+ 1.0	89	31	28	11†	50	0.09	− 0.93	0.09	T.	1	14	14	3	sw.	J. B. Willsea.
Gladstone	San Juan	10,400	4								0.94		0.30	2.2	9	0	25	6	ne.	San Juan W. & P. Co.
Glenwood Springs (near)	Garfield	5,823	13	52.8	− 1.1	85	31	19	11	51	T.	− 1.00	T.	0	0	25	3	3	w.	E. A. O'Neil.
Grand Junction	Mesa	4,608	20	63.0	+ 1.4	88	31	37	20	38	0.03	− 0.89	0.03	0	1	12	18	1	se.	U. S. Weather Bureau.
Grandlake	Grand	8,153	3								T.		T.	T.	0	18	13	0	w.	Mrs. Belle Kauffman.
Grand Valley	Garfield	5,089	19	56.8	− 0.5	86	5	24	11	53[a]	T.	− 1.20	T.	0	0	11[a]	13[a]	6[a]		David Evans.
Gunnison	Gunnison	7,670	18	46.6[f]	− 1.3	77	7	14[m]	11	57[f]	0.28	− 0.40	0.15	1.0	2	25	6	0	sw.	Clarence Adams.
Horsefly	Montrose	8,700	1								0.12		0.12	T.	1	16	13	2	sw.	Lawrence J. Finch.
Ironton	Ouray	10,000	1								1.76		0.48	5.2	12	4	22	5	sw.	P. H. Foley.
Lake City	Hinsdale	8,686	6	46.8		70	5†	19	11†	44	0.72		0.22	1.9	7	16	11	4	s.	J. F. Maurer.
Lay	Routt	6,190	17	50.2	+ 0.3	82	31	20	11	52	0.40	− 0.90	0.24	T.	3	8	10	13	sw.	A. G. Wallihan.
Mancos	Montezuma	6,960	12	53.8	+ 2.7	80	30	22	20	47	T.	− 1.38	T.	0	0	8	21	2	sw.	B. M. Krumpanitzky.
Marble	Gunnison	7,951	2																	F. E. Morse.
Marshall Pass	Saguache	10,846	8								T.		T.	T.	0	14	16	1	w.	Wm. D. Lillard.
Meeker (near)	Rio Blanca	6,182	19	51.0	− 0.5	83	5	22	11†	52	0.25	− 1.18	0.22	3.0	2	12	16	3	sw.	T. Baker.
Montrose	Montrose	5,811	22	58.0	+ 3.5	84	31	28	11†	44	0.04	− 0.70	0.04	0	1	15	14	2		U. S. Reclamation Service.
Nast	Pitkin	7,953	1	45.4		72	31	21	11	40	0.32		0.32	T.	1	14	13	4	w.	Arthur Hanthorn.
Pagoda	Routt	6,500	20	51.0	+ 0.3	82	31	21	29	49	0.03	− 1.41	0.02	0	2	18	0	13		Mrs. J. W. Scott.
Pagosa Springs	Archuleta	7,108	4	49.4		80	30	15	11†	55	0.29		0.10	0.2	4	15	12	4	sw.	E. T. Walker.
Palisades	Mesa	4,729		63.3		87	31	35	20	39	0.02		0.02	0	1	15	11	5	sw.	G. L. Herbolsheimer.
Paonia	Delta	5,694	16	58.2	+ 1.6	85	5	28	20	44	0.12	− 1.26	0.07	T.	3	8	21	2	sw.	J. M. Underwood.
Parshall	Grand		2								0.38		0.25	0	3					F. A. Field.
Pitkin	Gunnison	9,500	2								1.54		0.40	1.0	9	5	17	9	s.	Mrs. Maggie Camman.
Pyramid	Rio Blanca			48.6		74	5†	19	11	43	1.48		0.70	4.4	4	6	24	1	w.	A. C. Egry.
Rangely	do	5,050	12																	Mrs. C. P. Hill.
Redcliff	Eagle	8,695	18								0.93	− 0.35	0.40	13.0	4	15	8	8		Dorothea Greiner.
Rico	Dolores	8,824	9								0.36		0.15	0	5	26	3	2	s.	Clinton B. Smith.
River Portal	Montrose	6,570	5	54.8		82	30	24	11	49	0.17		0.08	T.	4	15	4	12		U. S. Reclamation Service.
Sapinero (near)	Gunnison	8,125	8	46.4		72	5	18	11	40	0.38		0.21	2.9	5	17	9	5	w.	W. F. Irving.
Shoshone	Garfield	6,110	1	56.2		79	5	30	11	36	0.36		0.12	0	5	21	5	5		Central Colo. Pow. Co.
Silverton (near)	San Juan	9,400	4	42.0		66	7	9	8	50	1.10		0.28	T.	9	7	16	8	sw.	San Juan W. & P. Co.
Spruce Lodge	Grand	9,600	3								1.19		0.50	2.0	9					H. J. Wills.
Steamboat Springs	Routt	6,683	8	48.6		79	31	17	11	52	0.65		0.26	4.0	3	27	1	3		M. Elliot Houston.
Tacoma	La Plata	7,300	4								0.57		0.34	T.	3	12	9	10	sw.	San Juan W. & P. Co.
Terminal Dam	do	8,300	4								0.30		0.08	0	5	13	17	1	s.	Do.
Terrill's Ranch	Mesa	7,000									0.09		0.08	0	2	11	19	1	sw.	A. F. Terrill.
Uncompahgre Plateau	Montrose	8,400	1								0.12		0.12	0	1	13	18	0	sw.	Martin Esser.
Yampa (near)	Routt	8,000	2								0.20		0.14	0	3	7	17	7	sw.	Percy A. Hughes.
Utah.																				
Aneth	San Juan	4,800	8	63.0		91	30	31	11	46	0.00		0.00	0	0	19	12	0	sw.-s.	H. R. Antes.
Castle Dale	Emery	5,500	12	55.3	+ 2.3	82	5†	25	11	47	0.00	− 0.52	0.00	0	0	22	9	0		James Jeffs.
Dragon	Uinta		0	54.4		80	5†	24	11	44	0.27		0.12	1.9	5				s.	Gilson Asphaltum Co.
Duchesne	Wasatch	5,507	5	52.8		82	5	24	20	48	T.		T.	0	0	7	18	6	s.	M. M. Smith.
Elkhorn	Uinta	6,857	1								0.00		0.00	0	0	14	17	0	s.	U. S. Forest Service.
Emery	Emery	6,200	10	53.6	+ 2.6	79	5	30	1†	45	0.00	− 0.57	0.00	0	0	5	3	23	n.	H. C. Wickman.
Escalante	Garfield	5,700	10	55.2	− 0.1	84	4	26	15	44	0.02	− 0.63	0.02	0	1	26	0	5		Geo. H. Barney.
Fort Duchesne	Uinta	5,000	21	56.8	+ 0.7	87	31	25	11	50	0.00	− 0.82	0.00	0	0	23	4	4	w.	Post Surgeon.
Fruitland	Wasatch	7,625	1	49.0		79	23	18	11	48	0.01		0.01	T.	1	13	16	2	w.	J. Peter Naab.
Grayson	San Juan	5,750	8																	Joseph A. Lyman.
Green River	Emery	4,080	10	63.9	+ 0.1	92	5	31	11	51	0.00	− 0.63	0.00	0	0	14	16	1	sw.	Edgar E. Adams.
Hanksville	Wayne	4,200	1																	F. J. Weber.
Hite	Garfield	3,000	10	68.4		92	5†	44	11	42	0.00		0.00	0	0	27[a]	3[a]	0[a]	w.	John P. Hite.
Kanab	Kane	4,925																		W. J. F. McAllister.
La Sal	San Juan	7,000	10	54.6	+ 3.8	76	31	26	20	37	T.	− 1.45	T.	T.	0	14	12	5		Gertrude W. Carpenter.
Loa	Wayne	7,000																		Frank E. Brown.
Manila	Uinta	6,225	1								0.28		0.17	0	4	6	19	6	s.	Daniel M. Nelson.
Mexican Hat	San Juan		0																	G. D. James.
Moab	Grand	4,000	22	65.1	+ 1.1	92	5†	33	11	49	T.	− 0.83	T.	0	0	9	18	4		Henry Crouse.
Monticello	San Juan	7,545	2	53.5		75	7†	29	10†	33	0.00		0.00	0	0	23[a]	6[a]	1[a]	sw.	Geo. F. Barton.
Orderville	Kane	6,660	1								0.24		0.16	0	2					F. A. Porter.
Pine Valley	Washington		0								0.40		0.40	0	1	25	3	3	se.	Mason Gardner.
Price	Carbon	5,557	0	57.1		85	5†	29	11	45	0.00		0.00	0	0	25	3	3	se.	R. H. Thompson.
Ranch	Kane	6,700	9	47.2		78	7	24	2†	45	0.24		0.12	0	3	24	5	2	w.	J. W. Seaman.
St. George	Washington	2,880	21	64.4	− 2.3	93	22	34	11†	52	T.	− 0.40	T.	0	0	13	15	3		A. B. Ballantyne.
Scofield	Carbon	7,625	1	46.0		77	5	13	11	52	0.66		0.60	1.0	2	16	0	15	s.	Geo. A. Murphy.
Springdale	Washington	3,500	3	64.8		94	22	39	1	47	0.25		0.25	0	1	23	0	8	s.	Alberta Flanigan.

TABLE 1.—*Climatological data for May, 1911. 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.																				
Sunnyside	Carbon	5,280	6								1.10		0.60	11.0	2					Henry Cullum.
Teasdale	Wayne	7,000	3	51.6e		74	22†	21	10	33	0.02		0.01	0	2	16e	0e	12e	sw.	Josiah Shurtz.
Thompsons	Grand	5,150	0	60.6		83	5	36	20	36	T.		T.	T.	0	15	13	3	sw.	A. M. Starmont.
Tropic	Garfield	7,000	13	52.6	+ 0.9	80	4	27	11	48	T.	− 0.83	T.	0	0	14	15	2	nw.	E. P. Bolton.
Trout Creek Ranger	Uinta	9,200	1																	U. S. Forest Service.
Vernal	do	5,050	15	52.1	− 4.7	85	5	24	11	50	T.	− 1.12	T.	0	0	19	10	2		S. P. Trim.
Woodside	Emery	4,645	0	59.2		87	5	27	20	50	0.00		0.00	0	0				s.	D. P. Adams.
New Mexico.																				
Alma	Socorro	5,500	15	61.2	− 0.8	95	30	25	3†	61	0.40	+ 0.06	0.40	0	1	12	17	2	s.	M. A. Balke.
Aragon	do	5,856	4	52.0		82	30	19	2†	59	T.		T.	0	0	21	10	0	sw.	John R. Milligan.
Aztec	San Juan	5,590									T.		T.	0	0	19	11	1		Dr. T. J. West.
Blackrock	McKinley	6,500	3																	R. J. Bauman.
Bloomfield	San Juan	5,500	16	60.6	+ 2.4	92	5	24	11	54	0.02	− 0.49	0.02	0	1	17	14	0	sw.	Fred LeClerc.
Cambray	Luna	4,215	12			96	24†				0.00	− 0.11	0.00	0	0	24	4	3	w.	Agent, So. Pac. R. R.
Cliff	Grant	4,470	12																	W. C. Belden.
Columbus	Luna	4,054	2			100	31				0.00		0.00	0	0	21	10	0	sw.	Agent, E. P. & S.W. R. R.
Deming	do	4,333	34	65.8		95	30	35	3†	52	0.00	− 0.18	0.00	0	0	25	6	0	w.	Agent, So. Pac. R. R.
Dulce	Rio Arriba	6,756	4	52.4	+ 1.2	80	30	20	11	51	0.45	− 0.57	0.18	0	4	16	2	13	w.	G. H. Blakeslee.
Fort Bayard	Grant	6,152	36	62.4	+ 0.7	89	31	35	1†	44	T.	− 0.28	T.	0	0	28	2	1	w.	U. S. General Hospital.
Fort Wingate	McKinley	6,997	47																	Medical Corps, U. S. A.
Fruitland	San Juan	4,800	18	60.8	+ 0.8	92	30	24	11	58	T.	− 0.37	T.	0	0	21	10	0	sw.	C. J. Collyer.
Gage	Luna	4,486	4	67.4		98	31	38	1	50	0.00	− 0.12	0.00	0	0	29	2	0	w.	Agent, So. Pac. R. R.
Gila planting station	Grant	6,475		61.4		84	30	35	21	40	T.		T.	0	0	25	6	0	sw.	U. S. Forest Service.
Hachita	do	4,505	2								T.		T.	0	0	20	9	2	w.	Agent, E. P. & S. W. R. R.
Haynes	Rio Arriba	6,600	1								0.26		0.25	0	2	27	3	1	nw.	Dr. John R. Haynes.
Hermanes	Luna	4,451	2								0.00		0.00	0	0	25	2	4	w.	Agent, E. P. & S. W. R. R.
Lordsburg	Grant	4,245	11	67.6	− 1.6	95	31	37	2	50	0.00	− 0.21	0.00	0	0	15	15	1	sw.	Agent, So. Pac. R. R.
Luna	Socorro	7,300	6	50.0		77	17	18	2	55	0.00		0.00	0	0	20	11	0	w.	C. B. Martin.
Mimbres	Grant	5,007	6								0.00		0.00	0	0	22	9	0	se.	Charles Dennis.
Pinos Altos	do	8,000																		O. L. Scott.
Pratt	do	4,415	2								0.00		0.00	0	0	27	4	0	sw.	Agent, E. P. & S. W. R. R.
Putnam	San Juan	6,200	1																	D. Lee Thompson.
Redrock	Grant	4,150	6								0.34		0.34	0	1	21	7	3		Robt. H. Woods.
Rodeo	do	4,118	2								T.		T.	0	0	30	1	0		Agent, E. P. & S. W. R. R.
Arizona.																				
Allaire's ranch	Cochise	4,184	14								T.	− 0.14	T.	0	0	21	3	7	sw.	Thos. Allaire.
Alpine	Apache	7,500	3																	U. S. Forest Service.
Aztec	Yuma	492	13	75.2	− 5.0	103	22	47	16	48	0.00	− 0.25	0.00	0	0	31	0	0	w.	Agent, Southern Pacific Co.
Benson	Cochise	3,523	29	68.2	− 6.7	98	31	37	22	55	0.00	− 0.12	0.00	0	0	26	4	1	e.	Do.
Bisbee	do	5,500	22	65.6	− 0.3	86	31	46	1†	32	0.02	− 0.23	0.02	0	1	18	9	4	e.	Rev. J. G. Pritchard.
Bonita	Graham	4,916	39																	W. E. Ross.
Bowie	Cochise	3,756	35	72.3	+ 1.0	99	23	45	16	42	0.00	− 0.22	0.00	0	0	27	4	0	sw.	Agent, Southern Pacific Co.
Buckeye	Maricopa	980	20	71.8	− 0.6	100	22†	43	1†	50	0.00	− 0.07	0.00	0	0	28	3	0	sw.	H. E. Kell.
Camp Verde	Yavapai	3,160	23																	T. B. Gabbard.
Canille	Santa Cruz	5,225	2								0.02		0.02	0	1	18	12	1	sw.	R. A. Rodgers.
Casa Grande	Pinal	1,396	30	80.2	+ 1.0	103	23	50	16	50	0.00	− 0.05	0.00	0	0	26	5	0	sw.	Agent, Southern Pacific Co.
Casa Grande Ruins	do	1,422	3	72.0		101	23	40	16	54	0.00		0.00	0	0	22	7	2	w.	F. Pinkley.
Cavecreek	Maricopa	1,520	4																	E. A. Howard.
Chin Lee	Apache	6,090	3	58.5		85	5†	24	11	53	0.01		0.01	0	1	20	8	3	sw.	Fr. L. Ostermann, O. F. M.
Chiarsons Mill	Graham	8,000	5	53.8		76	4†	26	11	46	0.00		0.00	0	0	26	5	0		H. R. Chiarson.
Clifton	Greenlee	3,584	21																	P. Reisinger.
Cline	Gila	2,300	11																	W. M. Clanton.
Cochise	Cochise	4,219	13	74.7	+ 3.2	98	23	50	1	32	0.00	− 0.17	0.00	0	0	31	0	0		Agent, Southern Pacific Co.
Columbia	Yavapai	1,900	9	75.4		95	4†	50	14	34	0.00		0.00	0	0	29	2	0	se.	M. J. Nolan.
Congress	do	3,688	15																	Assayer, Congress Mine.
Courtland	Cochise	4,543	2								0.00		0.00	0	0	27	4	0	sw.	Agent, E. P. & S. W. Co.
Dos Cabezos	do	5,250	3	64.8		96	29†	31	1	56	0.10		0.10	0	1	23	7	1	w.	N. Erickson.
Douglas	do	3,930	8	69.0		97	31	37	2	53	0.00		0.00	0	0	25	5	1	sw.	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	20	67.6	− 2.2	93	7†	39	16	48	0.00	− 0.38	0.00	0	0	19	9	3	sw.	G. F. Cook.
Fairbank	Cochise	3,862	2								0.12		0.10	0	2	20	7	4		Agent, E. P. & S. W. Co.
Flagstaff	Coconino	6,907	20	49.5	− 1.2	74	22	22	11	46	0.08	− 1.13	0.08	T.	1	24	7	0	sw.	U. S. Weather Bureau.
Flagstaff (1)	do	7,452	6	47.0		75	8	19	11†	46	0.09		0.09	0	1	28	3	0		C. C. Moers.
Flagstaff (2)	do	7,500	2	45.7		72	4†	15	11†	53	T.		T.	0	0	24	7	0	sw.	U. S. Forest Service.
Florence	Pinal	1,504	12	71.8	− 3.0	102	23	39	16	54	0.00	− 0.04	0.00	0	0	20	4	7	e.	Agent, Ariz. Eastern R. R. Co.
Fort Apache	Navajo	5,200	40	57.9	− 2.5	86	31	30	16	46	0.00	− 0.59	0.00	0	0	25	5	1	sw.	Post Surgeon, U. S. A.
Fort Huachuca	Cochise	5,100	25	69.0	+ 1.6	91	29†	48	1†	40	T.	− 0.27	T.	0	0	27	0	4	se.	Do.
Fort Mohave	Mohave	604	43																	A. F. Duclos.
Gilabend	Maricopa	737	21	76.0	− 2.8	109	23	48	12†	52	0.00	− 0.04	0.00	0	0	30	1	0		Agent, Southern Pacific Co.
Globe	Gila	3,525	11	67.5		92	4†	40	16	44	0.00	− 0.30	0.00	0	0	21	10	0	sw.	B. G. Fox, M. D.
Grand Canyon	Coconino	6,866	5	51.2		79	7	23	16	47	0.14		0.14	0	1	25	6	0	sw.	Agent, G. C. R. R. Co.
Grand Canyon (1)	do	3,676	3																	C. C. Spaulding.
Granite Reef Dam	Maricopa	1,372	18	73.2	− 1.5	99	23	45	16	46	0.00	− 0.15	0.00	0	0	23	8	0	w.	U. S. Reclamation Service.
Greer	Apache	9,200	5																	Mrs. M. Butler.
Heber	Navajo	6,633																		E. S. Perkins.
Hereford	Cochise	4,180	2								0.25		0.25	0	1	21	7	3	sw.	Agent, E. P. & S. W. Co.
Holbrook	Navajo	5,069	21	59.2	− 1.6	89	4	30	11†	50	0.00	− 0.27	0.00	0	0	31	0	0		T. Larson.
Indian Oasis	Pima	3,000																		J. Menager.
Intake	Gila	2,230	4								0.00		0.00	0	0	30	1	0	w.	U. S. Reclamation Service.
Jerome	Yavapai	4,743	14	65.4	0.0	86	22	43	15	31	0.06	− 0.47	0.06	0	1	25	6	0	w.	Dr. L. A. Hawkins.
Keams Canyon	Navajo	6,600	8	57.3		81	30	27	16	48	0.00		0.00	0	0	27	4	0	w.	D. E. Livesay.
Kingman	Mohave	3,326	8	64.6		93	22	33	16	50	0.31		0.31	0	1	25	5	1	sw.	G. R. Gooding.
Lewis Springs	Cochise	4,029	2								0.10		0.10	0	1	11	19	1	se.	Agent, E. P. & S. W. Co.
Maricopa	Pinal	1,186	34	83.4	+ 3.4	107	22	62	20	40	0.00	− 0.05	0.00	0	0	28	3	0	sw.	Agent, Southern Pacific Co.
McNeal	Cochise	4,490									0.00		0.00	0	0	23	5	3	sw.	C. E. Bolton.
Mesa	Maricopa	1,244	16	71.6	− 2.9	97	22	45	14†	45	0.00	− 0.06	0.00	0	0	27	4	0	sw.	C. L. Diehl.
Mohawk Summit	Yuma	538	11	81.8	− 0.1	108	22	58	2	41	0.00	− 0.03	0.00	0	0	30	0	1	w.	Agent, Southern Pacific Co.
Naco	Cochise	4,579	2								0.13		0.13	0	1	26	5	0	w.	Agent, E. P. & S. W. Co.
Natural Bridge	Gila	4,990	22								0.00	− 0.52	0.00	0	0	25	6	0	sw.	D. G. Goodfellow.
Oracle	Pinal	4,500	18	68.3	− 0.1	87	23	47	1†	34	0.00	− 0.36	0.00	0	0	24	6	1	sw.	W. H. Winters.
Osborn	Cochise	4,676	2								0.02		0.02	0	1	18	11	2	w.	Agent, E. P. & S. W. Co.
Paradise	do	3,940	5	61.6		89	23	31	16†	52	T.		T.	0	0	18	11	2	sw.	J. C. Hancock.

TABLE 1.—*Climatological data for May, 1911. 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.																				
Parker	Yuma	345	17	72.6	− 3.8	102	5†	42	1†	56	0.00	− 0.14	0.00	0	0	28	3	0	.....	M. A. Israel, M. D.
Payson	Gila	5,550	3	56.8	.....	83	4†	27	16	51	0.00	.....	0.00	0	0	26	5	0	sw.	M. McDonald.
Phoenix	Maricopa	1,108	16	74.1	− 0.7	99	23	49	16	40	0.00	− 0.03	0.00	0	0	23	8	0	e.	U. S. Weather Bureau.
Phoenix (1)	....do	1,092	22	72.0	− 1.8	100	22†	42	1†	50	0.00	− 0.06	0.00	0	0	23	7	1	w.	G. Acuff.
Phoenix (2)	....do	1,189	3	75.8	.....	101	23	45	16†	50	0.00	.....	0.00	0	0	27	2	2	sw.	Horne & Armstrong.
Pinal Ranch	Pinal	4,520	17	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.32	0.00	0	0	27	4	0	.....	Irion & Craig.
Pinto	Apache	5,660	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. C. F. Henning.
Prescott	Yavapai	5,320	45	53.8	− 4.9	80	4†	27	30	49	T.	− 0.51	T.	0	0	30	1	0	.....	J. W. Flinn, M. D.
Quartzite	Yuma	800	4	74.6	.....	102	21	45	12	53	0.00	.....	0.00	0	0	30	1	0	w.	W. E. Scott.
Redrock	Pinal	1,864	3	76.6	.....	102	8†	48	1	48	0.00	.....	0.00	0	0	15	16	0	sw.	W. J. Crowell.
Roosevelt	Gila	2,175	6	72.4	.....	96	23	43	14	50	0.00	.....	0.00	0	0	28	3	0	.....	U. S. Reclamation Service.
Saccaton	Pinal	1,280	4	73.2	.....	101	22†	43	16	51	0.00	.....	0.00	0	0	26	5	0	.....	E. W. Hudson.
St. Johns	Apache	5,650	8	60.0	.....	89	31	25	11	57	T.	.....	T.	0	0	18	10	3	sw.	A. Shreeve.
St. Michaels	....do	6,950	23	56.8	+ 3.4	81	31	26	16	48	T.	− 0.63	T.	0	0	23	4	4	sw.	Rev. A. Weber, O. F. M.
Salome	Yuma	1,875	4	64.8	.....	95	22	35	9†	48	0.00	.....	0.00	0	0	24	6	1	s.	Mrs. M. B. Swartz.
San Carlos	Gila	2,456	29	71.0	+ 0.7	98	8†	40	15	49	0.00	− 0.26	0.00	0	0	20	9	2	w.	F. S. Thomas.
San Simon	Cochise	3,609	25	71.9	− 4.4	98	23	44	16	42	0.00	− 0.15	0.00	0	0	28	3	0	sw.	Agent, Southern Pacific Co.
Seligman	Yavapai	5,219	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lib., A., T & S. F. Ry. Co.
Sentinel	Maricopa	685	13	76.6	− 2.4	103	22	48	16	46	0.00	− T.	0.00	0	0	26	5	0	w.	Agent, Southern Pacific Co.
Showlow	Navajo	6,300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Z. Hall.
Silverbell	Pima	2,650	6	76.3	.....	97	7	50	15	37	0.00	.....	0.00	0	0	23	4	4	w.	Imperial Copper Co.
Snowflake	Navajo	5,644	4	56.1	.....	85	5	24	11	55	0.00	.....	0.00	0	0	19	11	1	sw.	W. J. Flake.
Springerville	Apache	6,862	.....	55.7	.....	82	8	24	16	55	0.00	.....	0.00	0	0	26	5	0	sw.	U. S. Forest Service.
Supai	Coconino	3,200	5	70.7	.....	94	4†	42	1†	45	0.00	.....	0.00	0	0	27	4	0	s.	A. H. Symons.
Tempe	Maricopa	1,165	7	71.8	.....	102	23	41	16	55	0.00	.....	0.00	0	0	23	7	1	sw.	F. H. Simmons.
Thatcher	Graham	2,800	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. H. Larson.
Tombstone	Cochise	4,550	15	70.4	− 2.5	96	31	46	1†	43	0.10	− 0.14	0.10	0	1	20	10	1	.....	F. N. Walcott.
Truxton	Mohave	3,997	2	61.0	.....	89	22	35	16	46	T.	.....	T.	0	0	27	3	1	s.	G. A. Dennis.
Tuba	Coconino	4,500	11	60.0	− 1.7	85	5†	34	20	49	0.00	− 0.19	0.00	0	0	20	10	1	sw.	C. R. Jefferis.
Tucson	Pima	2,390	31	72.7	− 0.4	97	23	43	21	51	0.00	− 0.13	0.00	0	0	15	16	0	sw.	University of Arizona.
Tucson (1)	....do	2,380	3	70.0	.....	98	4†	35	1	55	0.00	.....	0.00	0	0	22	8	1	w.	J. M. Robe.
Tucson (2)	....do	2,526	.....	70.6	.....	97	8†	42	1	49	0.00	.....	0.00	0	0	18	9	4	w.	U. S. Coast & Geod. Sur.
Vail	....do	3,421	12	77.2	+ 2.6	100	29	52	1†	46	0.00	− 0.02	0.00	0	0	28	3	0	sw.	Agent, Southern Pacific Co.
Walnut Grove	Yavapai	3,649	18	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.09	0.00	0	0	27	4	0	.....	J. O. Carter.
Wickenburg	Maricopa	2,072	12	70.2	+ 0.5	97	22†	40	14†	55	0.00	− 0.19	0.00	0	0	20	11	0	s.	Agent, S. F., P. & P. Ry.
Willcox	Cochise	4,164	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent, Southern Pacific Co.
Williams	Coconino	6,750	12	52.6	− 1.4	79	24	22	15	50	0.12	− 0.78	0.12	0	1	27	4	0	sw.	E. J. Nordyke.
Winslow	Navajo	4,853	7	60.4	.....	91	4	31	13	53	0.00	.....	0.00	0	0	27	4	0	.....	J. F. Bauer.
Yarnell	Yavapai	4,700	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. L. Bartholomew.
Yuma	Yuma	141	30	74.2	− 2.6	102	22	48	16	48	0.00	− 0.03	0.00	0	0	31	0	0	sw.	U. S. Weather Bureau.
Yuma (1)	....do	150	3	69.6	.....	99	22	41	16	54	0.00	.....	0 00	0	0	31	0	0	w.	A. L. Crane.
Nevada.																				
Caliente	Lincoln	4,407	1	58.4	.....	82	22†	33	14	46	0.02	.....	0.01	0	2	27	2	2	se.	Salt Lake Route.
Logan	Clark	1,700	4	68.2	.....	97	22	40	1	50	0.00	.....	0.00	0	0	11	17	3	s.	R. M. Filcher.

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, 1911. 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																																
Daniel	Green		T.	T.						T.					T.	.12	T.	T.		.20							.50	T.					0.82
Eden	do		.04							T.	.01				T.	.01		T.	.04	T.			T.				.03	.04		T.			0.17
Green River	do			T.	T.					T.	.04				T.			T.	.01	T.							T.						0.05
Pinedale	do																		T.								.02	T.					0.02
Willow Ck. Cabin	do																																
Colorado.																																	
Ashcroft	Grand	.01					.08		.10		.08	.01		.05	.28	.24				.65	.05	.20					.02			.05		.02	1.84
Breckenridge	do		T.	T.							.06				T.	.16				.58	.22											T.	1.02
Buford	White						.06				.15								T.	T.													0.21
Cascade	San Juan						.10	.08	.09					.22	.49	.01				.04						.03							.26	1.32
Cedaredge	Gunnison																																0.00
Chromo	San Juan						T.	.50	T.	.08		T.	T.	T.	T.					T.					T.	T.			T.			.20	0.78
Cochetopa	Gunnison						.05	T.		T.					.07	.12				.04	.02												0.30
Collbran	Grand						T.				T.				.01																	T.	0.01
Columbine	Yampa		.09				.06						.30			.21			.03	.28		.24							.05				1.26
Columbine Ranch	Gunnison						.17							.20																			0.37
Corona‖	Grand	.19		.47								.11								.98	.19	.20											2.14
Cortez	San Juan																																
Craig	Yampa		.02								.36										.01												0.39
Crawford (near)	Gunnison						.18				T.				.05						.02											.05	0.30
Crested Butte	do						.06	T.	T.		.35		T.	.05	.20	.22				.50	T.						T.			T.		.09	1.47
Delta	do						T.																										T.
Dillon	Grand	T.	T.	T.						T.							T.		T.	.21	T.	.12	T.								T.	T.	0.33
Durango	San Juan						.06	.03	.03					T.	.46											T.						.01	0.59
Eureka	do						.33	.22	T.					.14	.11	T.										.11							0.91
Fraser‖	Grand	T.	T.	T.	T.						.03				T.			.05	.10	.02									.10				0.30
Fruita	do						T.		T.	T.	T.				T.				T.	.09												T.	0.09
Gladstone	San Juan						.03	.02	.04						.15	.04				.19	.30				T.	.01						.16	0.94
Glenwood Springs (near).	Grand											T.																					T.
Grand Junction	do						T.				T.				T.				T.	.03						T.						T.	0.03
Grandlake	do										T.									T.	T.												T.
Grand Valley	do						T.	T.		T.		T.							T.	T.	T.						T.						T.
Gunnison	Gunnison							.15			T.				T.					.13												T.	0.28
Horsefly	do					T.	T.				T.		T.	T.	.12																		0.12
Ironton	do						.14	.06	.04		.02		.05	.04	.36					.48	.39					.03	.01					.14	1.76
Lake City	do						.04	.06			T.				.17	T.				.22	.02						.11					.10	0.72
Lay	Yampa						.01	T.			.24			T.						.15	T.											T.	0.40
Mancos	San Juan						T.	T.					T.																			T.	T.
Marble	Grand																																
Marshall Pass	Gunnison							T.								T.				T.				T.				T.				T.	T.
Meeker (near)	White							T.			.22									.03													0.25
Montrose	Gunnison																			.04													0.04
Nast	Grand										T.					.32					T.	T.											0.32
Pagoda	Yampa										.02				T.				T.	.01	T.												0.03
Pagosa Springs	San Juan							.10	.09				T.	T.	T.						.02					T.			T.	T.		.08	0.29
Palisades	Grand													T.	.02																	T.	0.02
Paonia	Gunnison						.03	T.							.02					.07												T.	0.12
Parshall	Grand														.06						.25					.07							0.38
Pitkin	Gunnison						.13	.12	.12	.10	.10			.11		.27				.19							.40						1.54
Pyramid	Yampa		T.	T.			.01				.10								T.	.67		.70					T.						1.48
Rangely	White																																
Redcliff	Grand	T.					.20				T.	T.	.17						T.	.40		.16	T.		T.							T.	0.93
Rico	Dolores						.15	.08	.02	T.	.10		T.		.01					T.													0.36
River Portal	Gunnison						.03	.08			T.				.01					.05													0.17
Sapinero (near)	do						.03	T.			.03			T.	.09					.21	.02					T.	T.					T.	0.38
Shoshone	Grand	T.					.11				.06				.12					.01							.06						0.36
Silverton (near)	San Juan						.15	.14	.06		T.			.17	.28	.05				.06							.15					.04	1.10
Spruce Lodge	Grand	.03		.10							.10				.03	.12				.50	.23	.06							.02				1.19
Steamboat Springs	Yampa										.19									.26	.20												0.65
Tacoma	San Juan							T.					T.	.20	.34					T.						.03				T.			0.57
Terminal Dam	do						.05	.08						.07	.05	T.				T.						.05	T.						0.30
Terrill's Ranch	Grand						T.												.01		.08												0.09
Uncompahgre Plateau.	Gunnison						T.	T.												T.												.12	0.12
Yampa (near)	Yampa						.03				T.					.14				.03	T.												0.20
Utah.																																	
Aneth	San Juan																																0.00
Castle Dale	Green																																0.00
Dragon	do	.02									.12	.01		.05	T.						.07						T.						0.27
Duchesne	do	T.													T.			T.		T.							T.	T.					T.
Elkhorn	do																																0.00
Emery	Colorado																																0.00
Escalante	do													.02																			0.02
Fort Duchesne	Green																																0.00
Fruitland	do																			T.							.01						0.01
Grayson	San Juan																																
Green River	Green																																0.00
Hanksville	Colorado																																
Hite	do																																0.00
Kanab	do																																
La Sal	Grand										T.			T.						T.													T.
Loa	Colorado																																
Manila	Green	.03								.17	.03								.05														0.28
Mexican Hat	San Juan																																
Moab	Grand													T.						T.													T.
Monticello	San Juan																																0.00
Orderville	Colorado													.08	.16																		0.24
Pine Valley	do														.40																		0.40
Price	Green																																0.00
Ranch	Colorado													.04	.12	.08																	0.24
St. George	do														T.																		T.
Scofield	Green													T.						.60							.06						0.66
Springdale	Colorado														.25																		0.25
Sunnyside	Green															.50				.60					T.								1.10
Teasdale	Colorado															.01			.01														0.02
Thompsons	Green							T.								T.				T.												T.	T.
Tropic	Colorado															T.																	T.

TABLE 2.—*Daily precipitation for May, 1911. 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.																																	
Trout Creek Ranger	Green																																
Vernal	do																															T.	T.
Woodside	do																																0.00
New Mexico.																																	
Alma	Gila							.40																									0.40
Aragon	do					T.																											T.
Aztec	San Juan						T.	T.						T.																			T.
Black Rock	Little Colo																																
Bloomfield	San Juan						T.	.02																								T.	0.02
Cambray	Mimbres																																0.00
Cliff	Gila																																
Columbus	do																																0.00
Deming	Mimbres																																0.00
Dulce	San Juan							.17				T.	T.	T.	.05											T.	.05					.18	0.45
Fort Bayard	Mimbres								T.																	T.						T.	T.
Fort Wingate	Little Colo																																
Fruitland	San Juan						T.	T.																									T.
Gage	Mimbres																																0.00
Gila Planting Station	do							T.	T.																							T.	T.
Hachita	Gila							T.																									T.
Haynes	San Juan												.25														T.					.01	0.26
Hermanes	Gila																																0.00
Lordsburg	do																																0.00
Luna	do																																0.00
Mimbres	Mimbres																																0.00
Pinos Altos	Gila																																
Pratt	do																																0.00
Putnam	San Juan																																
Redrock	Gila							.34																									0.34
Rodeo	do					T.																											T.
Arizona.																																	
Allaire's ranch	Sonora					T.																											T.
Alpine	Gila																																
Aztec	do																																0.00
Benson	San Pedro																																0.00
Bisbee	do					.02																			T.								0.02
Bonita	Desert																																
Bowie	Gila																																0.00
Buckeye	do																																0.00
Camp Verde	Verde																																
Canille	San Pedro					.02																											0.02
Casa Grande	Gila																																0.00
Casa Grande Ruins	do																																0.00
Cavecreek	Verde																																
Chin Lee	San Juan						T.	.01						T.																			0.01
Chiarson's Mill	Gila																																0.00
Clifton	do																																
Cline	Salt																																
Cochise	Desert																																0.00
Columbia	Agua Fria																																0.00
Congress	Hassayampa																																
Courtland	White																																0.00
Dos Cabezos	Desert																								.10								0.10
Douglas	Sonora																																0.00
Dudleyville	Gila																																0.00
Fairbank	San Pedro						.02	.10																									0.12
Flagstaff	Little Colo														.08																		0.08
Flagstaff (1)	do														.09																		0.09
Flagstaff (2)	do														T.																		T.
Florence	Gila																																0.00
Fort Apache	Salt																																0.00
Fort Huachuca	San Pedro					T.	T.																										T.
Fort Mohave	Colorado																																
Gila Bend	Gila																																0.00
Globe	Salt																																0.00
Grand Canyon	Colorado														.14																		0.14
Grand Canyon (1)	do																																
Granite Reef Dam	Salt																																0.00
Greer	Little Colo																																
Heber	do																																
Hereford	Gila					.25																											0.25
Holbrook	Little Colo																																0.00
Indian Oasis	Desert																																
Intake	Salt																																0.00
Jerome	Verde														.06																		0.06
Keams Canyon	Little Colo																																0.00
Kingman	Colorado														.31																		0.31
Lewis Springs	San Pedro					T.	.10																										0.10
Maricopa	Gila																																0.00
McNeal	Desert																																0.00
Mesa	Salt																																0.00
Mohawk Summit	Gila																																0.00
Naco	San Pedro							.13																									0.13
Natural Bridge	Verde																																0.00
Oracle	San Pedro																																0.00
Osborn	do					.02																											0.02
Paradise	Desert						T.	T.																									T.
Parker	Colorado																																0.00
Payson	Verde																																0.00
Phoenix	Salt																																0.00
Phoenix (1)	do																																0.00
Phoenix (2)	do																																0.00
Pinal Ranch	Gila																																0.00
Pinto	Little Colo																																
Prescott	Hassayampa														T.																		T.
Quartzsite	Colorado																																0.00
Redrock	Santa Cruz																																0.00

TABLE 2.—*Daily precipitation for May, 1911. 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.																																	
Roosevelt	Salt																																0.00
Sacaton	Gila																																0.00
St. Johns	Little Colo						T.																										T.
St. Michaels	do						T.	T.																									T.
Salome	Colorado																																0.00
San Carlos	Gila																																0.00
San Simon	do																																0.00
Seligman	Verde																																
Sentinel	Gila																																0.00
Showlow	Little Colo																																
Silverbell	Santa Cruz																																0.00
Snowflake	Little Colo																																0.00
Springerville	do																																0.00
Supai	Colorado																																0.00
Tempe	Salt																																0.00
Thatcher	Gila																																
Tombstone	San Pedro					.10																											0.10
Truxton	Colorado														T.																		T.
Tuba	Little Colo																																0.00
Tucson	Santa Cruz																																0.00
Tucson (1)	do																																0.00
Tucson (2)	do																																0.00
Vail	do																																0.00
Walnut Grove	Hassayampa																																0.00
Wickenburg	do																																0.00
Willcox	Desert																																
Williams	Colorado														.12																		0.12
Winslow	Little Colo																																0.00
Yarnell	Hassayampa																																
Yuma	Colorado																																0.00
Yuma (1)	do																																0.00
Nevada.																																	
Caliente	Colorado																									.01	.01						0.02
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, 1911. 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	49	25	58	25	63	32	68	38	65	15	60	26	55	25	68	30	68	52	77	46	76	37	81	35	76	30	70	35
2	54	27	60	37	69	34	74	47	70	18	61	27	57	27	72	32	70	36	82	48	81	42	85	44	79	35	74	38
3	58	28	66	34	71	34	79	46	72	22	69	26	65	27	75	30	76	39	85	51	85	41	86	43	82	36	78	41
4	64	29	86	30	75	36	82	48	74	20	76	31	74	29	76	38	83	39	89	50	90	42	92	41	87	34	80	41
5	78	28	80	40	76	38	87	54	73	19	83	33	77	29	79	39	86	38	92	51	92	43	88	47	92	44	83	47
6	63	33	74	43	70	44	79	59	75	25	70	39	68	38	78	39	81	36	86	70	92	68	84	48	82	55	78	47
7	63	20	76	40	70	40	80	50	77	20	76	28	73	29	75	35	80	34	89	55	92	44	88	41	84	52	86	46
8	70	32	75	23	75	41	84	64	70	24	75	43	74	39	70	30	82	32	89	67	87	62	86	50	85	49	83	42
9	56	30	68	36	72	38	81	56	68	28	75	35	71	38	74	31	78	38	87	62	86	59	82	51	82	44	81	41
10	43	29	49	29	59	35	60	40	58	31	60	26	61	28	73	39	64	32	70	48	66	41	76	40	64	36	80	41
11	60	16	64	21	66	26	69	39	63	14	60	22	60	17	75	31	71	25	86	44	76	33	83	34	78	24	78	42
12	65	20	74	25	74	40	80	44	60	26	75	25	60	21	76	35	80	36	88	49	88	36	86	34	85	38	81	46
13	64	28	71	50	66	50	76	58	65	37	68	48	65	44	74	39	75	45	85	56	87	40	82	50	79	48	83	47
14	62	26	74	43	71	41	79	54	67	30	73	32	72	29	73	35	72	41	86	48	85	45	78	50	83	45	80	41
15	54	32	61	41	64	34	69	44	69	25	65	34	68	32	75	33	80	38	68	49	70	51	71	38	86	40	80	42
16	56	33	67	34	67	30	72	41	71	21	69	40	68	24	70	30	74	36	79	47	79	40	80	39	81	27	76	40
17	54	34	65	39	73	32	80	51	70	20	73	28	73	25	71	45	74	32	83	53	81	52	78	50	84	36	82	38
18	53	30	61	33	74	33	82	48	74	38	71	30	67	31	75	38	75	33	88	62	85	47	85	52	83	35	83	43
19	43	18	45	28	61	40	56	39	64	.....	55	27	41	31	71	32	68	29	79	52	84	48	75	54	71	36	80	50
20	53	24	60	24	59	33	64	37	59	.....	56	30	52	30	70	33	75	27	74	47	85	38	80	43	71	28	80	46
21	62	25	68	24	68	30	72	40	61	.....	65	22	62	28	73	35	74	28	82	47	79	35	86	39	79	28	78	35
22	65	28	74	30	74	34	80	45	64	.....	72	25	71	25	75	33	81	33	88	50	88	36	93	41	86	32	80	40
23	68	30	79	41	76	38	86	56	71	.....	78	40	77	34	72	30	85	42	92	54	89	54	89	51	89	39	84	45
24	68	34	73	55	74	41	78	62	70	.....	70	42	68	37	75	36	78	51	87	67	84	64	88	70	82	48	88	50
25	67	34	75	43	72	48	83	64	74	.....	77	38	76	28	70	31	80	41	89	58	86	52	84	61	84	54	82	50
26	50	30	59	32	63	38	69	50	76	.....	68	44	68	40	75	32	72	41	74	46	72	51	77	43	76	43	79	52
27	47	24	56	31	68	32	71	43	65	.....	65	29	65	26	71	35	69	31	80	51	77	40	85	42	82	31	77	45
28	67	23	68	24	75	35	83	45	70	.....	74	22	73	22	72	32	79	32	86	50	87	40	78	40	85	35	83	42
29	63	26	74	42	75	46	83	52	71	.....	72	38	74	28	73	35	82	42	89	60	89	48	85	51	88	35	82	46
30	71	28	80	29	77	42	85	54	72	.....	78	29	78	26	70	30	85	37	89	53	91	48	86	44	89	46	86	49
31	75	34	81	48	74	54	88	62	76	.....	82	34	79	31	72	35	87	47	.....	.....	88	62	84	43	83	63	89	54
Mns.	60.2	27.7	68.4	34.6	70.0	37.7	76.7	49.4	69.0	24.1[m]	70.0	32.0	67.5	29.6	73.2	34.1	76.6	36.9	83.9[a]	53.0[a]	83.8	46.4	83.3	45.5	81.8	39.5	80.8	43.9

Date.	Arizona.																						Nevada.	
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson.		Yuma.		Logan.	
	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	70	46	65	24	73	32	64	26	91	42	88	51	68	32	70	29	85	41	84	44	92	50	85	40
2	76	46	65	31	73	32	65	33	92	53	87	55	70	36	70	32	88	42	88	45	92	52	89	44
3	78	48	68	30	76	32	69	32	95	55	91	54	72	35	73	44	91	45	91	44	93	54	92	48
4	82	51	72	30	81	35	71	33	99	56	95	55	80	34	78	35	96	50	96	47	97	57	95	52
5	79	55	73	32	81	37	73	34	102	57	92	60	71	41	78	37	97	51	96	55	96	55	93	49
6	78	50	68	40	78	48	67	41	91	48	90	64	64	41	79	50	94	59	95	60	91	60	87	49
7	81	55	71	32	80	46	79	36	100	49	96	62	73	40	79	48	97	56	96	57	94	54	91	46
8	82	58	69	39	82	45	68	41	97	55	90	62	75	48	78	40	98	54	96	57	96	58	92	46
9	79	62	65	42	80	40	64	44	99	43	90	59	73	42	74	51	92	53	93	59	94	58	88	54
10	78	57	61	29	81	36	62	32	91	42	88	55	72	38	71	44	89	49	87	54	91	55	82	43
11	78	50	67	22	80	35	68	24	93	49	90	52	72	29	73	28	93	45	93	46	94	55	90	42
12	76	62	68	29	73	32	70	30	95	54	90	57	74	37	73	34	89	53	88	60	93	54	91	42
13	78	54	66	38	77	46	66	34	95	54	91	63	72	42	73	50	95	57	92	58	94	56	89	47
14	72	53	60	33	76	38	66	35	81	46	84	60	62	42	72	46	89	50	93	57	78	57	82	45
15	72	48	55	29	68	36	60	30	81	44	76	52	60	37	75	38	86	40	81	47	79	53	79	48
16	78	48	60	22	75	30	66	23	89	53	84	49	71	29	72	26	89	44	89	44	90	48	84	42
17	80	48	67	31	79	33	70	30	93	52	89	53	71	36	75	33	88	47	94	44	91	51	86	58
18	78	50	69	40	77	35	70	42	90	52	93	58	72	36	73	42	91	42	92	58	93	54	92	47
19	77	56	63	41	77	40	71	41	88	55	91	61	72	45	71	50	89	51	90	59	95	59	89	47
20	72	52	61	33	70	40	74	35	96	49	88	56	70	39	68	38	86	54	86	55	95	62	90	45
21	76	46	68	25	76	32	74	27	101	51	92	59	74	30	68	30	89	45	90	43	101	65	93	45
22	81	51	74	28	80	35	70	29	102	52	97	58	75	31	78	30	96	47	96	45	102	54	97	50
23	84	54	71	37	81	41	74	38	100	65	99	60	80	36	77	36	98	49	97	55	99	58	96	53
24	82	56	69	41	80	44	76	44	96	58	96	63	76	42	79	38	95	57	95	62	95	65	90	57
25	80	56	66	38	79	43	72	39	88	45	92	61	74	30	78	42	94	54	93	61	87	59	84	54
26	77	56	64	30	72	43	68	32	93	45	83	56	75	31	73	37	85	55	86	58	89	50	82	42
27	78	50	68	24	75	34	68	26	94	55	90	52	74	30	72	29	89	44	90	50	93	49	90	42
28	78	51	67	29	79	40	65	30	95	55	93	56	73	28	78	38	94	51	92	50	93	53	92	42
29	78	55	68	35	79	41	70	36	95	55	93	62	74	30	78	38	94	58	93	62	93	56	91	53
30	84	58	70	31	78	40	72	30	95	52	93	65	76	27	80	42	93	57	94	67	90	56	91	47
31	86	62	68	34	86	46	68	33	92	55	90	59	73	29	81	50	95	55	96	59	90	63	87	46
Means	78.3	53.0	66.8	32.2	77.5	38.3	69.0	33.5	93.8	51.5	90.4	57.8	72.2	35.3	74.7	38.9	91.7	50.2	91.7	53.7	92.6	55.8	89.0	47.3

a, b, c, etc., indicate respectively, 1, 2, 3, etc., days missing from the record.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.