Climatological Data for April, 1910.

DISTRICT No. 9, COLORADO VALLEY,

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The dominant characteristics of the weather conditions considered, April in the Colorado drainage area may be divided into two parts. The first, which includes the period up to the middle of the month was unsettled, with several sharp changes in temperature throughout the district. It was during this period that almost all the precipitation of the month was noted. The latter half of the month was generally clear, with much bright sunshine, only one sharp fall in temperature, and that not extensive, and no precipitation in Nevada or New Mexico, while only a few showers were noted in Utah and Wyoming. In Colorado on the 21st and the closing days precipitation was generally noted.

During the 1st and 2d a low-pressure area was in course of development in the middle Plateau region. By the morning of the 3d the depression had crossed the Continental Divide, the pressure rising rapidly meanwhile in the Pacific Northwest. Sharp falls in temperature, with local snow, attended the advance of the front of the high on the 3d. On the morning of the 4th freezing temperatures prevailed throughout the drainage basin of the Colorado, except in southern Arizona, and similar temperature conditions again prevailed on the morning of the 5th. From the 7th to the 11th temperatures were somewhat above the normal.

On the 11th another low pressure having an important bearing on the weather conditions of the district began to develop in Nevada. Unfortunately for agricultural and horticultural interests, its course was first southeastward. Its progress, impeded by conditions prevailing east of the Mississippi, was notably slow, while low temperatures continued to develop in the anticyclone in the northwest. By the morning of the 14th the low center had reached western Kansas, a position favorable to the advance of the anticyclone, which, on the morning of the 15th, brought hard freezing weather again to the entire drainage basin of the Colorado, except southern Arizona. The freeze was even severer in localities on the morning of the 16th. During the remainder of the month the low-pressure areas followed northerly tracks and temperatures, except on 2 days, were above the average, the excess being marked in Arizona from the 18th to 29th, and in the upper part of the district from the 23d to the 29th. In western Wyoming the maximum temperatures noted on the 27th and 28th are the highest of record for April.

While there was damage to fruit and gardens by the freezing temperatures of the 4th, 5th, 15th, 16th, 21st, and 22d, minimized in localities by smudging, the fact is generally overlooked, when frosts are reported, that in Colorado, New Mexico, Utah, and other mountainous districts, owing to the great range in altitude at which fruit is grown, not to mention the effect of exposure, fruits are never at the same stage of advancement; hence, while in one locality the loss may be serious, others within a few miles may entirely escape injury.

The mean temperature of the 124 stations reporting was 54.6°, or 2.4° above the normal. By subdivisions the means and departures were: Western Wyoming, 43.4°, +6.4°; western Colorado, 43.9°, +2.2°; eastern Utah, 50.1°, +3.4°; western New Mexico, 53.7°, +2.0°; Arizona, 63.8°, +2.0°. The highest monthly mean was 74.4° at Mesa, Ariz.; the lowest, 26.1° at Corona, Colo. The extremes were: 110° at Gila Bend, Mohawk Summit, Parker, and Casa Grande, Ariz., and —5° at Whitepine, Colo. In western Wyoming the maximum reached 82°; in the valleys of western Colorado readings in the 80's were general, and in eastern Utah and western New Mexico readings in the 90's were noted.

The average precipitation for the 172 stations reporting was 0.55 inch, or 0.27 inch below the normal. By watersheds the means and departures were: Green, 0.53, −0.54; Grand, 1.08, −0.54; San Juan, 0.94, −0.19; Little Colorado, 0.67, −0.17; Gila, 0.25, −0.17; lower Colorado, 0.21, −0.06. The greatest monthly amount was 2.74 inches at Corona, Colo., while none occurred at several stations in Utah, New Mexico, and Arizona. On an average there were 3 days with 0.01 inch or more of precipitation.

The sunshine was above the average. Grand Junction and Durango reported 79 per cent; Flagstaff, 84; Phoenix, 90; and Yuma, 93 per cent of the possible.

The mean relative humidity was slightly above the normal in central Arizona, and below the normal in the upper part of the district. The following values were reported: Grand Junction, 44; Durango, 48; Flagstaff, 52; Phoenix, 37, and Yuma, 35 per cent.

STREAM FLOW AS AFFECTED BY TEMPERATURE CONDITIONS.

Cold snaps at this time of the year have an appreciable effect on the flow in the streams of the upper watershed of the Colorado. Diurnal changes in temperature are clearly reflected, the small streams rising and falling at regular intervals. The variable distances from the sources of supply to the mouths of these feeders and the fact that they are situated here and there along the course tend to reduce in the trunk stream the fluctuations so marked in the tributaries. Although noticeable, they gradually disappear with increased distance from the headwaters.

With warm days and cold nights a heavy flow in the upper reaches is out of the question. When the nights are also warm the fluctuations are not so marked: it is at such times, however, that high water may be expected if the snow covering is considerable. During April, 1910, the volume discharged by the Grand and Green rivers, which join in southeastern Utah and form the Colorado, was considerably in excess of the volume discharged in the corresponding month last year, notwithstanding the much heavier snowfall of the winter of 1908-9. The increased flow of the current month is explained by the difference in temperature. April, 1910, averaged much above the normal, while April, 1909, was notably cold. During the first 10 days of April the flow was very steady and the amount about the average that obtained for the month of April, 1909. During the second and third decades there was a steady rise in the Grand and Green, with the maximum on the last day of the month. In the Colorado proper there was a moderately high stage at the beginning of the month, then a gradual decline, with the minimum about the middle of the month. A steady and fairly rapid rise then followed, with the maximum also on the 30th.

PROGRESS ON THE COLORADO RIVER PROJECT.

The engineer in charge of the Yuma Irrigation Project, Arizona-California, reports that filings and water-right applications have been made for all of the farm units, which were opened to entry on March 1, and that about 40 settlers are already engaged in preparing their land for agriculture. Throughout the month of April water was run through canals on the reservation for priming purposes, and practically every canal built has received more or less water. Water has been supplied to the experiment station farm, and to a few of the settlers, for the use of their stock. The Farmers' Pumping Plant and the scoop wheel have been in constant operation.

Work on the Colorado siphon is being pushed rapidly on both sides of the river. The total penetration on the Arizona shaft

is 115 feet to date, and the material at present is extremely hard sandstone. On the California side material very difficult to handle has been encountered. It consists of a layer of large boulders, about 10 feet in thickness, lying on a sandstone formation with considerable dip. Immediately above the boulders is quicksand. The shaft on this side has reached a depth of 80 feet. This siphon is one of the remarkable features of the Yuma Project. It will carry a large volume of water from the canal on the California side, under the Colorado River, to irrigate the lands on the Arizona side of the river. In this conduit, passing under the river, the siphon will have a diameter of 14 feet, and a total length of 1,000 feet. When completed, the water will pass under the river, under heavy pressure, and will develop considerable power to be utilized later for pumping water to higher lands.

The Reclamation Service has employed the services of 2 expert submarine divers, from San Pedro, Cal., to assist in the work of excavating the shafts on each side of the Colorado River, which are to constitute the intake and outlet of the inverted siphon under the river. The edges of the excavation have not been trimmed off sufficiently to allow the concrete shaft to sink to this level, the "clamshell" digger, which has been employed scooping sand out of the 70-foot depth of water in the shaft, not being sufficient for this purpose, working in a bowl-shaped cut. Blasting is necessary to round out the shaft, and the divers are employed to lay the blasts under the water. They are fulfilling this work gradually and successfully. Less than 50 feet of the Arizona shaft yet remains to be excavated, after which the work under the river will be begun. The project, as a whole, is about 80 per cent complete.

ROOSEVELT DAM COMPLETION.

It is expected that the great Roosevelt Dam, on the Salt River, 70 miles east of Phoenix, Ariz., will be completed in June of this year. The dam is 235 feet long on the bottom, and its base covers nearly an acre. A portion of the dam is already completed to its entire height, 280 feet. On top of the dam there will be a 20-foot roadway the entire length of 1,080 feet. The waters held back by the dam will be used to make fruitful more than 200,000 acres of land. The reservoir has a capacity of 1,284,000 acre-feet, making it the largest artificial body of water in the United States, if not in the world. All of the cement used in the dam and accessory structures is from the Government's cement mill, which has turned out to date approximately 350,000 barrels. The power used in the work is generated at the dam site by the Reclamation Service.

The Secretary of the Interior has granted an extension of time for the completion of the 5 and 6 foot valves for the power equipment at the dam. As certain changes in the material were deemed advisable, the drawings were not fully approved until March 1, 1910, and the date for completion of the contract was accordingly set forward. Under this arrangement a portion of the contract will be filled in July, 1910, and the remainder in August, 1910.

MISCELLANEOUS.

Initial steps have been taken for two large projects which will do much for the Grand Valley in western Colorado. A deal has been closed for a 5,000-acre tract of land on Hunter's Mesa, near Rifle, and the construction of a reservoir and ditches to cost $500,000. All the land will be irrigated for fruit. Work will be started at once.

The Udlock Investment Company is to build a reservoir and power plant above Collbran, Colo., in the Plateau Valley. The water will be secured from the Middles and will supply Grand Junction and other points in the immediate vicinity. It is planned to build an electric road into Grand Junction from Plateau Valley, and to irrigate several thousand acres in the district. The entire project will cost $1,500,000.

The Mimbres Valley Irrigation Company has about completed its dam across the Mimbres River, north of Deming, N. Mex. This dam is for the purpose of holding flood waters during the rainy season, and later distribution through the ditches. There are 28 quarter sections of land under this ditch, and the company is confident that with the improved facilities there will be no shortage of water this year.

Irrigation by means of wells is receiving considerable attention in the vicinity of Deming, N. Mex. The recently completed well of Dr. P. K. Connaway, pumps 1,500 gallons a minute. Five large well-drilling outfits are now in active operation in the vicinity, and it is expected that there will be at least 50 new irrigation plants in operation in the Mimbres Valley before June 1. To obviate the difficulty attending the getting of the water to the top of the ground, when the individual engine is the source of power, arrangements are under way for the building of a 400-horsepower plant to take care of the various irrigating wells.

TABLE 1.—*Climatological data for April, 1910. District No. 9, Colorado Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .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.																				
Daniel	Uinta	6,740	11	41.0	+ 7.9	78	26	11	4	50	0.10	− 0.66	0.10	1.0	1	22	8	0	nw.	J. M. Van Dervort.
Dixon	Carbon																			Chas. Spillman.
Eden	Sweetwater	6,577	2	42.8		80	27	12	4	51	0.22		0.09	1.0	3	12	12	6	w.	Eden Valley L. and I. Co.
Green River	....do	6,083	5	49.0	+ 5.0	82	27	18	4	48	0.10	− 0.41	0.07	1.5	3	18	3	9	w.	Geo. H. Maxon.
Kendall	Fremont	7,630																		Art. Doyle.
Pinedale	....do	7,167	4	40.6		75	27	13	3†	49	0.02		0.02	0.0	1	19	9	2	nw.	U. S. Forest Service.
Rambler	Carbon	9,232									1.92		0.80	27.4	6	16	9	5	w.	J. C. Fothergill.
Colorado.																				
Ashcroft	Pitkin	9,482	8	35.9		70	27	− 1	16	45	2.61		1.20	28.0	8					Dan McArthur.
Breckenridge	Summit	9,536	20	33.9	+ 3.7	65	28	0	16	45	0.98	− 2.08	0.44	15.0	5	3	22	5	nw.	Mrs. J. G. Thompson.
Cascade§	San Juan	8,900	4								0.69		0.53	1.5	4	20	2	8	e.	San Juan P. and W. Co.
Chromo	Archuleta	7,500	4																	Lawrence Nolan.
Cochetopa	Saguache	9,088									1.05		0.55	8.0	5	10	18	2	w.	Bessie McDonough.
Collbran	Mesa	6,000	17	48.0		77	27	19	16	35	0.97	− 0.52	0.31	0.0	5	15	9	6	sw.	A. A. Wood.
Columbine	Routt	8,766									1.42		0.49	13.0	5	14	14	2	sw.	Mrs. M. A. Caron.
Columbine Ranch	Delta	6,925									0.47		0.22	1.8	3	18	5	7	s.	Geo. W. Wade.
Corona	Grand	11,660	3	26.1		51	28	− 1	4	29	2.74		0.61	32.4	12	13	8	9	w.	U. S. Weather Bureau.
Crawford (near)	Montrose	6,600		46.0		76	27	17	4	36	0.55		0.28	2.0	4	16	4	10		C. W. Roe.
Crested Butte	Gunnison	8,867		35.6		69	28	4	2	45	1.88		0.47	4.0	7	18	8	4	w.	Charles L. Ross.
De Beque	Mesa	4,935		53.4		87[a]	25†	23	5	56	0.20		0.10	T.	4	19	6	5		C. M. Paine.
Delta	Delta	4,965	19	52.7	+ 1.9	89	27	19	5	52	0.26	− 0.29	0.20	0.0	2	17	10	3		E. M. Getts.
Dillon	Summit	8,800	1								0.28		0.12	4.3	3	15	7	8	n.	Harry T. Hamilton.
Dolores	Montezuma	6,500	1																	Geo. R. Simmons, jr.
Durango	La Plata	6,534	17	47.7	+ 1.2	78	27	19	16	42	0.55	− 0.71	0.20	T.	6	9	16	5	nw.	U. S. Weather Bureau.
Eagle	Eagle	6,598	5	42.8[b]		73[a]	26	15[c]	16	46[b]	0.52		0.40	2.0	2	22[b]	4[b]	2[b]		J. M. Witteman.
Eureka§	San Juan	10,000	3								1.19		0.31	14.0	6					San Juan P. & W. Co.
Fraser	Grand			34.6		67	28†	8	4	50	0.70		0.30	8.1	4	11	10	9	n.	L. D. C. Gaskill.
Fruita	Mesa	4,510	11	53.0	+ 1.9	86	27	19	16	51	0.20	− 0.58	0.11	T.	4	18	4	8	sw.	J. B. Willsea.
Gladstone §	San Juan	10,400	3								1.69		0.83	16.4	5	3	21	6	ne.	San Juan P. & W. Co.
Glenwood Springs (near)	Garfield	5,823	12																	E. A. O'Neil.
Grand Junction	Mesa	4,608	19	55.2	+ 2.0	85	27	26	16	42	0.32	− 0.44	0.16	0.1	5	15	8	7	nw.	U. S. Weather Bureau.
Grandlake	Grand	8,153	2																	Mrs. Belle Kauffman.
Grand Valley	Garfield	5,089	18	51.2	+ 2.2	85	26	18	16	54	0.42	− 0.79	0.14	T.	7	12	12	6		David Evans.
Gunnison	Gunnison	7,670	17	43.2	+ 3.8	76	29	8	15	50	0.65	− 0.14	0.48	2.0	5	10	13	7	sw.	Clarence Adams.
Hayden	Routt	6,337	1																	C. W. Harkness.
Hesperus	La Plata	8,870	11																	John S. Spear.
Horsefly	Montrose	8,700									1.41		0.40	11.5	7	20	8	2	sw.	L. J. Finch.
Ironton	Ouray	10,000									2.17		0.67	25.7	7	10	14	6	sw.	P. H. Foley.
Kremmling (near)	Grand	7,337	2	42.8		73	27	15	5	48	1.15		0.33	0.5	8	9	13	8		H. A. Howe.
Lake City	Hinsdale	8,686	5	40.8		71	27	9	15†	36	1.51		0.57	16.2	7	10	10	10	s.	J. F. Maurer.
Lay	Routt	6,190	16	44.2	+ 2.3	78	28	12	16	53	0.95	− 0.19	0.50	5.0	3	19	4	7	sw.	A. G. Wallihan.
Leal	Grand	8,750									1.20		0.40	11.0	4	10	15	5		L. J. Wade.
Lujane	Montrose	6,620	4	49.6		79	27	20	4†	38	1.16		0.35	1.5	5	17	8	5	sw.	U. S. Reclamation Service.
Mancos	Montezuma	6,960	11	46.0	+ 1.7	76	27	10	15	45	1.87	− 0.23	1.36	8.4	5	15	13	2	nw.	B. M. Krumpanitzky.
Marble	Gunnison	7,951	1	42.3		76	27	10	5	45	1.35		0.35	11.5	9	14	11	5	e.	Homer Harrington.
Marshall Pass	Saguache	10,846	7								0.80		0.28	18.0	4	20	7	3	w.	William D. Lillard.
Meeker	Rio Blanco	6,182	18	45.8	+ 2.1	80	27	12	16	48	1.08	− 0.48	0.55	2.0	6	14	14	2	sw.	T. Baker.
Montrose (near)	Montrose	5,811	21	47.9	+ 0.6	79	26†	18	5	45	0.60	− 0.39	0.54	0.0	2	13	14	3		R. Butterfield.
Nast	Pitkin	7,953		40.0		67	27†	11	5†	32	1.28		0.70	11.7	5	13	12	5	w.	Arthur Hanthorn.
Pagoda	Routt	6,500	19	46.0	+ 4.2	82	26	14	4†	50	1.03	− 0.94	0.40	6.0	4	16	6	8		Shaw Brothers.
Pagosa Springs	Archuleta	7,108	3	43.0		76	27†	10	15	51	0.82		0.39	1.0	5	9	15	6	sw.	E. T. Walker.
Paonia	Delta	5,694	15	52.4		84	27	21	16	39	0.57	− 0.42	0.15	T.	5	11	15	4	sw.	J. M. Underwood.
Parshall	Grand		1								0.99		0.33	12.0	4					F. A. Field.
Pitkin	Gunnison	9,500	1								0.45		0.17	6.7	4	13[a]	11[a]	5[a]		Mrs. Maggie Cammann.
Rangely	Rio Blanco	5,050	11	48.3	+ 1.6	85	27	18	16	48	0.38	− 0.17	0.23	T.	4	9	15	6	w.	Mrs. C. P. Hill.
Redcliff	Eagle	8,695	15								2.05	+ 0.24	0.62	15.7	7	12	8	10		Dorothea Greiner.
Rico	Dolores	8,824	8								1.18		0.49	10.1	10	14	11	5	sw.	Clinton B. Smith.
River Portal	Montrose	6,570	4	47.4[b]		79[b]	26	16[b]	4	41[b]	1.42		0.42	3.1	7	17	6	7		U. S. Reclamation Service
Sapinero	Gunnison	8,125	8	39.5		70	27	7	5	41	2.33		0.65	20.4	12	15	6	9	w.	W.F. Irving.
Shoshone	Garfield	6,110		51.4		82	25†	24	4†	46	0.75		0.31	2.0	7	11	9	10		Central Colo. Power Co.
Silt	....do	5,441	13																	W. S. Park.
Silverton (1)	San Juan	9,285	6	37.4		69	27	5	15	44	1.72		0.70	17.5	10	21	4	5	sw.	A. P. Root, jr.
Silverton (near) §	....do	9,400	3	34.4		64	27	3	15	40	0.60		0.30	7.0	3	13	11	6	sw.	San Juan P. & W. Co.
Spruce Lodge	Grand	9,600	2								1.93		0.53	23.0	10					H. J. Wills.
Steamboat Springs	Routt	6,683	7	43.6		76	26†	16	16	53	1.21		0.70	0.0	2	24	2	4		M. E. Houston.
Tacoma §	La Plata	7,300	3	43.7		72	24†	18	4†	39	1.04		0.35	0.0	7	17	5	8		San Juan P. & W. Co
Terminal Dam §	....do	8,300	3								0.79		0.44	8.2	7	17	4	9	s.	Do.
Uncompahgre Plateau	Montrose	8,400									0.46		0.20	7.0	4	10	19	1	sw.	Martin Esser.
Whitepine	Gunnison	9,500	10	33.7		63	28	− 5	4	42	0.90		0.50	10.0	3	11	12	7	s.	C. E. Macy.
Yampa	Routt	8,000	1								0.40		0.17	4.5	6	13	8	9	n.	Percy A. Hughes.
Utah.																				
Baker	San Juan	7,560	1								1.42		1.30	1.2	2	20	2	8	s.	Maude A. Palmer.
Basin	Grand	9,500	1								1.64		0.35	16.0	12	11	13	6	w.	E. H. Wolf.
Castle Dale	Emery	5,500	11	51.2[a]		85[a]	24†	21[a]	4	48[a]	0.00		0.00	0.0	0	19[a]	10[a]	0[a]		James Jeffs.
Emery	....do	6,260	10	50.6		82	26	19	3	41	0.00		0.00	0.0	0	8	2	20	n.	H. C. Wickman,
Escalante	Garfield	5,700	10	51.5		83	24	21	15	45	0.43		0.43	0.0	1	18	0	12		Geo. H. Barney.
Fort Duchesne	Uinta	5,000	22	51.4	+ 3.2	86	27	17	4	54	0.10	− 0.48	0.10	0.0	1	16	10	4	w.	B. F. Mudd.
Grayson	San Juan	5,750	6	50.8		80	25†	21	16	40	0.60		0.50	0.0	2	19	2	9	s.	Joseph A. Lyman.
Green River	Emery	4,080	13	57.7	+ 3.7	95	26	23	16	53	0.00	− 0.77	0.00	0.0	0	24	6	0	sw.	B. F. Miller.
Hanksville	Wayne										0.08		0.07	0.0	2	22	3	5	sw.	F. G. Weber.
Hite	Garfield	3,000	11	60.4		91	25†	33	4	43	0.12		0.10	0.0	3	18	12	0	s.	John P. Hite.
La Sal	San Juan	7,000	10	47.2[a]		76[a]	27	14[a]	4	35[a]	0.37		0.26	T.	3	12	8	10		Gertrude W. Carpenter.
Loa	Wayne	7,000	18	41.8	+ 1.2	72	27	7	4	40	0.00	− 0.64	0.00	0.0	0					Michael Hansen.
Mill Canyon	Washington	8,400																		J. A. Gardner.
Moab	Grand	4,000	21																	Henry Crouse.
Monticello	San Juan		2																	D. B. Perkins.
Orderville	Kane										0.64		0.02	0.0	2					F. A. Porter.
Price	Carbon	5,557																		C. A. Guiwits.
Ranch	Kane	6,700	9	46.2		78	24	15	4	47	0.44		0.20	0.0	3	21	9	0	n.	J. W. Seaman.
Saint George	Washington	2,880	29	61.1	+ 3.9	94	19†	30	5	57	T.	− 0.38	T.	0.0	0	16	13	1		Joseph T. Atkin.
Scofield	Carbon	7,625	2	37.4		58	1	20	7†	35	0.00		0.00	0.0	0	31	0	0		O. E. Jorgensen.
Springdale	Washington		3																	Wm. W. Flanigan.
Strawberry	Wasatch		4	43.5		72	26	11	4	37	1.06		0.65	10.5	5	11	12	7		U. S. Reclamation Service.
Sunnyside	Carbon	5,280	2								0.14		0.05	0.5	4					Henry Cullum.
Teasdale	Wayne	7,000	2																	Josiah Shurts.
Theodore	Wasatch	5,507	5	50.0		83	27	18	15	48	0.03		0.03	T.	1	9	15	6	w.	M. M. Smith.
Tropic	Garfield	7,000	13	49.6[k]		84[k]	25	23[k]	4	41[k]										E. P. Bolton.

TABLE 1.—*Climatological data for April, 1910. District No. 9*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Utah—Cont'd.																				
Vernal	Uinta	5,050	15	52.0	+ 3.3	85	27	19	14†	51	0.00	− 0.78	0.00	0.0	0	22	5	3	.....	Joab Collier.
New Mexico.																				
Alma	Socorro	5,500	11	56.0	+ 1.7	92	27†	21	2	55	0.86	+ 0.29	0.60	0.0	3	12	14	4	nw.	M. A. Balke.
Aragon	...do	5,856	3	40.5[d]	.....	73	19†	11[e]	5	52[e]	0.71	.....	0.30	0.0	3	15	12	3	sw.	John R. Milligan.
Blackrock	McKinley	6,500	2	49.6	.....	79	28	17	4	43	0.65	.....	0.23	0.2	7	14	14	2	w.	Wm. J. Oliver.
Bloomfield	San Juan	5,500	15	52.4	+ 2.4	90	28	16	5	53	0.53	− 0.32	0.33	T.	3	16	12	2	sw.	Fred Le Clerc.
Cambray	Luna	4,215	11	.....	.....	.....	.....	.....	.....	.....	0.40	+ 0.14	0.40	0.0	1	18	12	0	w.	Southern Pacific Co.
Columbus	...do	4,054	.....	.....	.....	92	27	34	2	47	0.09	.....	0.08	0.0	2	20	0	10	w.	El Paso & Southwest. R.R
Deming	...do	4,333	33	58.9	.....	94	29	35	1†	51	0.02	− 0.15	0.02	0.0	1	10	10	10	w.	Southern Pacific Co.
Dulce	Rio Arriba	6,767	12	47.2[a]	+ 4.0	80[a]	27	15[a]	5	54[a]	0.56	− 0.31	0.21	T.	5	11	10	9	w.	John M. Commons.
Fort Bayard	Grant	6,152	35	57.8	+ 4.5	86	24†	30	1†	36	0.55	+ 0.19	0.50	T.	3	27	3	0	w.	U. S. Gen'l. Hospital.
Fort Wingate	McKinley	6,997	46	50.2	+ 1.6	78	27†	12	4†	54	1.66	+ 0.67	1.00	4.0	4	15	6	9	sw.	Post Hospital.
Fruitland	San Juan	4,800	17	53.0	+ 1.6	87	27†	16	5	50	1.04	+ 0.61	0.90	T.	4	16	9	5	nw.	Cyril James Collyer.
Gage	Luna	4,486	3	59.8	.....	94	27†	31	16	48	0.04	− 0.24	0.04	0.0	1	26	5	5	w.	Southern Pacific Co.
Gila (near)	Grant	4,470	11	57.4	− 0.1	93	27	20	3	55	0.84	+ 0.47	0.60	0.0	4	.....	.....	.....	.....	Miss Cozella Clark.
Hachita	...do	4,504	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0.0	0	21	7	2	sw.	El Paso & Southwest. R. R.
Haynes	Rio Arriba	6,600	.....	.....	.....	.....	.....	.....	.....	.....	1.02	.....	0.25	1.0	7	23	4	3	nw.	Dr. John Roger Haynes.
Hermanes	Luna	4,451	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	20	10	0	w.	El Paso & Southwest. R. R.
Lordsburg	Grant	4,245	10	61.4	− 0.1	93	28	30	16	50	0.02	− 0.13	0.02	0.0	1	23	3	4	sw.	Southern Pacific Co.
Luna (near)	Socorro	7,300	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. Martin.
Manuelito	McKinley	6,252	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. H. F. Irick.
Mimbres	Grant	5,007	5	.....	.....	.....	.....	.....	.....	.....	0.58	.....	0.46	0.0	3	18	12	0	sw.	Chas. Dennis.
Pratt	...do	4,415	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	26	0	4	sw.	El Paso & Southwest. R. R.
Putnam	San Juan	6,200	.....	.....	.....	.....	.....	.....	.....	.....	0.92	.....	0.41	0.0	6	21	9	0	sw.	Richard Wetherill.
Redrock	Grant	4,150	5	.....	.....	.....	.....	.....	.....	.....	0.72	.....	0.56	0.0	3	17	13	0	.....	Robert N. Woods.
Rodeo	...do	4,118	.....	.....	.....	.....	.....	.....	.....	.....	0.10	.....	0.10	0.0	1	25	5	0	.....	El Paso & Southwest. R. R.
Rosa	Rio Arriba	6,000	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. A. Candelaria.
Arizona.																				
Allaires Ranch	Cochise	4,184	14	.....	.....	.....	.....	.....	.....	.....	0.05	− 0.21	0.03	0.0	2	25	2	3	w.	Thos. Allaire.
Arizona Canal Dam	Maricopa	1,372	15	71.3	+ 3.4	101	19	48	15	43	0.14	− 0.26	0.14	0.0	1	14	12	4	s.	U. S. Reclamation Service.
Aztec	Yuma	492	12	65.8	+ 6.4	106	24	37	1	66	0.69	+ 0.48	0.49	0.0	2	25	2	3	w.	Southern Pacific Co.
Benson	Cochise	3,523	28	63.5	− 1.0	95	28	34	17	56	T.	− 0.14	T.	0.0	0	14	7	9	e.	Southern Pacific Co.
Bisbee	...do	5,500	20	59.6	+ 0.4	84	25†	34	16	33	0.07	− 0.37	0.05	0.0	2	20	8	2	e.	Rev. J. G. Pritchard.
Bonita	Graham	4,916	.....	.....	.....	.....	.....	.....	.....	.....	0.30	− 0.03	0.25	0.0	2	25	1	1	w.	A. Johnson & Co.
Bowie	Cochise	3,756	33	62.8	+ 1.3	96	27	36	1†	49	0.10	− 0.08	0.05	0.0	2	25	0	5	w.	Southern Pacific Co.
Buckeye	Maricopa	980	17	67.6	+ 1.7	103	19	37	5	61	0.12	− 0.14	0.12	0.0	1	26	3	1	sw.	H. E. Kell.
Canille	Santa Cruz	5,225	1	.....	.....	.....	.....	.....	.....	.....	0.45	.....	0.30	0.0	2	14	13	3	sw.	R. A. Rodgers.
Casa Grande	Pinal	1,396	28	73.1	+ 3.1	110	27	40	1	48	T.	− 0.15	T.	0.0	0	26	2	2	w.	Southern Pacific Co.
Cave Creek	Maricopa	1,520	3	66.8	.....	100	25	38	13†	53	0.15	.....	0.15	0.0	1	21	7	2	.....	E. A. Howard
Chin Lee	Apache	6,090	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fr. L. Ostermann, O. F.M.
Chiarsons Mill	Graham	8,000	3	54.2	.....	85	26†	25	16	41	1.44	.....	0.47	3.5	6	18	10	2	.....	H. R. Chiarson.
Clifton	Graham	3,584	19	66.8	.....	92	19†	40	16	47	0.51	+ 0.08	0.38	0.0	4	22	7	1	.....	P. Reisinger.
Cline	Gila	2,300	10	63.1	+ 1.6	95	25†	35	5	58	0.08	− 0.43	0.04	0.0	2	15	12	3	sw.	W. M. Clanton.
Cochise	Cochise	4,219	11	58.4	+ 3.4	91	23†	25	1	57	0.25	+ 0.04	0.25	0.0	1	27	1	2	se.	Southern Pacific Co.
Columbia	Yavapai	1,900	11	69.2	.....	100	25	42	13	47	0.15	.....	0.15	0.0	1	11	15	4	se.	M. J. Nolan.
Congress	...do	3,688	14	67.4	+ 3.0	93	25	42	13	29	0.19	− 0.48	0.14	0.0	2	21	6	3	sw.	Congress Mine.
Courtland	Cochise	4,543	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	19	11	0	sw.	El Paso & Southwest. R. R.
Dos Cabezos	...do	5,250	2	57.7	.....	90	27†	30	2†	49	0.68	.....	0.57	0.0	2	21	6	3	w.	N. Erickson.
Douglas	...do	3,930	7	63.1	.....	97	28	30	2†	55	0.02	.....	0.02	0.0	1	23	5	2	sw.	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. F. Cook.
Fairbank	Cochise	3,862	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	20	0	10	.....	El Paso & Southwest. R. R.
Flagstaff (1)	Coconino	6,907	18	44.6	+ 2.4	76	26	20	1	44	0.52	− 1.11	0.33	3.3	5	13	10	7	sw.	U. S. Weather Bureau.
Florence	Pinal	1,504	11	71.3	+ 3.9	104	19	46	29	50	0.00	− 0.40	0.00	0.0	0	19	4	7	w.	Pacific & Eastern R. R.
Fort Apache	Navajo	5,200	39	53.8	+ 1.8	86	26	23	16	49	0.77	+ 0.02	0.34	0.0	4	24	2	4	e.	Post Hospital.
Fort Huachuca	Cochise	5,100	25	63.8	+ 4.1	90	25†	37	16	39	T.	− 0.27	T.	0.0	0	29	0	1	se.	Post Hospital.
Fort Mohave	Mohave	604	39	72.2	+ 1.2	105	25	43	1†	53	0.06	− 0.20	0.06	0.0	1	22	7	1	.....	A. F. Duclos.
Gilabend	Maricopa	737	19	73.8	+ 3.2	110	25	43	1†	52	T.	− 0.15	T.	0.0	0	24	6	0	sw.	Southern Pacific Co.
Globe	Gila	3,525	9	63.6	.....	92	26†	37	5	45	0.19	.....	0.08	0.0	4	18	11	1	nw.	Dr. B. G. Fox.
Grand Canyon	Coconino	6,866	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Grand Canyon Ry.
Greer	Apache	9,200	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. M. Butler.
Hereford	Cochise	4,180	1	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0.0	0	18	11	1	.....	El Paso & Southwest. R. R.
Holbrook	Navajo	5,069	21	52.8	− 0.5	86	18†	22	4	52	0.55	+ 0.01	0.45	0.0	3	24	2	4	.....	T. Larson.
Intake	Gila	2,230	3	.....	.....	.....	.....	.....	.....	.....	0.12	.....	0.06	0.0	3	25	5	0	w.	A. J. Robinson.
Jerome	Yavapai	4,743	13	61.0	+ 2.3	86	25	35	4†	30	0.43	− 0.59	0.25	0.0	3	17	8	5	w.	Dr. L. A. Hawkins.
Keams Canyon	Navajo	.....	6	49.8	.....	88	30	15	4	55	1.50	.....	0.70	0.0	3	17	13	0	se.	L. R. Ballard.
Kingman	Mohave	3,326	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. R. Gooding.
Lewis Springs	Cochise	4,029	1	.....	.....	.....	.....	.....	.....	.....	0.01	.....	0.01	0.0	1	19	9	2	se.	El Paso & Southwest. R. R.
Maricopa	Pinal	1,186	33	72.8	+ 1.9	109	19	41	13	56	0.11	− 0.07	0.11	0.0	1	22	8	0	.....	Southern Pacific Co.
Mesa	Maricopa	1,244	14	74.4	+ 7.7	106	18	41	12	59	0.05	− 0.36	0.03	0.0	2	18	10	2	sw.	C. L. Diehl.
Mohawk Summit	Yuma	538	9	75.2	.....	110	2[illegible]	42	12	45	0.04	.....	0.04	0.0	1	28	0	2	e.	Southern Pacific Co.
Naco	Cochise	4,579	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	29	1	0	sw.	El Paso & Southwest. R. R.
Natural Bridge	Gila	4,990	21	.....	.....	.....	.....	.....	.....	.....	0.71	− 0.25	0.45	T.	2	16	12	2	sw.	D. G. Goodfellow.
Nogales	Santa Cruz	3,830	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wallace & Summerhayes.
Oracle	Pinal	4,500	18	60.2	+ 0.4	81	8†	34	4	42	0.38	− 0.17	0.38	0.0	1	21	8	1	.....	W. H. Winters.
Osborn	Cochise	4,676	1	.....	.....	.....	.....	.....	.....	.....	0.03	.....	0.03	0.0	1	24	2	4	nw.	El Paso & Southwest. R. R.
Paradise	Cochise	3,940	4	55.0	.....	88	28	24	16	47	T.	.....	T.	0.0	0	14	9	7	sw.	J. C. Hancock.
Parker	Yuma	345	13	74.0	+ 3.8	110	24†	40	16	58	0.22	+ 0.11	0.21	0.0	2	22	6	2	sw.	Dr. H. V. King.
Payson	Gila	5,500	1	55.2	.....	87	18†	26	5	54	0.75	.....	0.43	1.5	3	16	8	6	sw.	M. McDonald.
Phoenix (1)	Maricopa	1,108	15	76.0	+ 3.4	100	19	44	13	44	0.29	− 0.14	0.29	0.0	2	20	10	0	e.	U. S. Weather Bureau.
Pinal Ranch	Pinal	4,520	15	.....	.....	.....	.....	.....	.....	.....	0.50	− 0.41	0.40	0.0	3	24	3	3	.....	Irion & Craig.
Pinto	Apache	5,660	5	.....	.....	.....	.....	.....	.....	.....	0.12	.....	0.05	0.0	3	20	4	6	sw.	Mrs. C. F. Henning.
Prescott	Yavapai	5,320	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. W. Flinn.
Quartzsite	Yuma	800	2	71.6	.....	105	25	42	1†	53	0.38	.....	0.36	0.0	2	26	4	0	n.	W. E. Scott.
Redrock	Pinal	1,856	2	72.5	.....	103	25	44	17	50	0.20	.....	0.20	0.0	1	11	17	2	sw.	W. J. Crowell.
Roosevelt	Gila	2,175	6	70.2	.....	97	25†	46	13	40	0.28	.....	0.28	0.0	1	22	6	2	.....	W. A. Schoenfeld.
Sacaton	Pinal	.....	2	70.2	.....	106	19	39	16	56	T.	.....	T.	0.0	0	23	7	0	.....	M. F. Gilman.
Saint Johns	Apache	5,650	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Shreeve.
Saint Michaels	...do	6,950	22	47.2	+ 1.1	79	27†	18	5†	44	0.38	− 0.30	0.32	T.	2	19	4	7	sw.	Rev. A. Weber, O. F. M.
Salome	Yuma	1,875	3	56.6	.....	97	27	35	6	48	0.72	.....	0.43	0.0	2	17	10	3	n.	Mrs. M. B. Swartz.
San Carlos	Gila	2,456	28	63.4	+ 1.0	98	26†	34	14†	56	0.09	− 0.29	0.09	0.0	1	18	10	2	w.	F. S. Thomas.
San Simon	Cochise	3,609	26	64.0	− 0.4	95	19†	32	15	55	0.03	− 0.07	0.02	0.0	2	21	8	1	w.	Southern Pacific Co.
Seligman	Yavapai	5,219	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. W. Dougherty.
Sentinel	Maricopa	685	11	73.2	+ 2.5	104	19†	47	1†	53	0.20	+ 0.02	0.20	0.0	1	18	9	3	.....	Southern Pacific Co.
Showlow	Navajo	6,300	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. Woolford.
Silverbell	Pima	2,650	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Imperial Copper Co.
Supai	Coconino	3,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Coe.
Tempe	Maricopa	1,165	6	69.4	.....	101	19	42	16	48	0.01	.....	0.01	0.0	1	29	1	0	w.	F. H. Simmons

TABLE 1.—*Climatological data for April, 1910. District No. 9*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	
Arizona—Cont'd.																				
Thatcher	Graham	2,800	7	60.0	.....	95	28	28	2	56	0.20	.....	0.10	0.0	3	15	15	0	w.	Prof. J. H. Larson.
Tombstone	Cochise	4,550	11	63.2	+ 1.4	92	27†	35	15	40	0.14	− 0.10	0.14	0.0	1	21	8	1	.....	F. N. Walcott.
Truxton	Mohave	4,197	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. B. Atkinson.
Tuba	Coconino	4,500	12	53.8	.....	85	25†	25	4	50	0.42	− 0.10	0.30	0.0	3	11	14	5	ne.	G. H. Kraus.
Tucson	Pima	2,390	30	66.8	+ 1.3	100	27	35	16	53	0.08	− 0.25	0.07	0.0	2	10	18	2	nw.	University of Arizona.
Vail	....do	3,421	11	67.4	− 0.6	99	26	36	16	47	0.61	− 0.35	0.01	0.0	1	19	10	1	nw.	Southern Pacific Co.
Walnut Grove	Yavapai	3,649	13	.....	.....	.....	.....	.....	.....	.....	0.27	− 0.24	0.27	0.0	1	16	13	1	.....	J. O. Carter.
Wickenburg	Maricopa	2,072	....	65.1	+ 3.6	100	25	36	15	51	0.03	− 0.36	0.03	0.0	1	26	1	3	.....	Santa Fe, Presc't & Phoenix
Willcox	Cochise	4,164	28	58.1	− 2.1	92	26	32	4	55	0.10	− 0.04	0.10	0.0	1	16	11	3	s.	Southern Pacific Co.
Williams	Coconino	6,750	8	49.2	+ 1.1	83	26	19	4†	50	0.82	− 0.15	0.70	5.0	2	16	13	1	.....	E. J. Nordyke.
Winslow	Navajo	4,853	5	57.4	.....	94	27	22	4	55	0.20	.....	0.20	0.0	1	27	0	3	.....	J. F. Bauer.
Yarnell	Yavapai	4,700	12	.....	.....	.....	.....	.....	.....	.....	0.02	− 0.98	0.02	0.0	1	8	12	10	s.	E. L. Bartholomew.
Yuma	Yuma	141	29	73.3	+ 3.2	106	24	47	2	50	T.	− 0.10	T.	0.0	0	26	2	2	w.	U. S. Weather Bureau.
Nevada.																				
Las Vegas	Clark	.....	....	63.9	.....	99	24†	29	2†	57	T.	.....	T.	0.0	0	16	12	2	nw.	Salt Lake Route.
Logan	....do	.....	....	66.2	.....	100	26	35	5	53	0.07	.....	0.06	0.0	2	12	15	3	s.	Ray M. Filcher.

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

TABLE 2.—*Daily precipitation for April, 1910. District No. 9, Colorado Valley.*

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Daniel	Green											T.		T.	T.															T.	.10		0.10
Dixon	Snake																																
Eden	Green			T.							T.			.09	.08	T.						.05											0.22
Green River	...do			T.									T.	T.	.02	.07															.01		0.10
Kendall	...do																																
Pinedale	...do													.02																			0.02
Rambler	Snake			T.	.43		T.				T.		T.	.03	.30	.08					T.									.28	.80		1.92
Willow Creek Cabin	Green																																
Colorado.																																	
Ashcroft	Grand			.25	.05			T.			T.		.15	1.20	.54	.10						.20									.12		2.61
Breckenridge	...do			.07	T.			T.	T.		T.	T.	.40	T.	.25	.19						T.									.07		0.98
Cascade	San Juan			.04			T.		.04	.08					.53																		0.69
Chromo	...do																																
Cochetopa	Gunnison			.06								T.		.38	.55	.04						.02											1.05
Collbran	Grand			.22			T.				T.		T.	.15	.13							.31									.16		0.97
Columbine	Yampa			.49	.32									T.	.24							.12									.25		1.42
Columbine Ranch	Gunnison			.08										.22	T.							.17											0.47
Corona‖	Grand				.61	.26		.14				.01	.01	.10	.33	.49	.15					.30	.13								.21		2.74
Crawford	Gunnison				.12							.12		.28								.03											0.55
Crested Butte	...do			.40				.35						.47	.40	T.						.11								.10	.05		1.88
De Beque	Grand			.16			.07					.01		.02																			0.20
Delta	Gunnison						T.				T.		.06	.20	T.																		0.26
Dillon	Grand			.05						T.	T.	T.						.11	T.	.12		T.									T.		0.28
Dolores	Dolores																																
Durango	San Juan	T.		T.			T.	.04	.15	.09	.08	.01		.18																			0.55
Eagle	Grand			.12								T.																			.40		0.52
Eureka	San Juan	T.	.21	T.			T.			T.	T.	.24	.31	.25	.08	T.				.10							T.				T.		1.19
Fraser‖	Grand				T.			T.			T.	T.		T.	.20	T.	T.					.30	.10								.10		0.70
Fruita	...do			.11			.01						T.	.05	T.	T.						.03								T.	T.		0.20
Gladstone	San Juan							T.	T.	T.	T.	.02	.13	.32	.83	T.						.39	T.				T.				T.		1.69
Glenwood Springs	Grand																																
Grand Junction	...do			.16			.04	T.					T.	.02	T.						.02	.08								T.	T.		0.32
Grandlake	...do																																
Grand Valley	...do			.06			.03	.01			T.	T.	T.	.10	.01							.14									.07		0.42
Gunnison	Gunnison			.03								.02		.48	.08													T.			.04		0.65
Horsefly	...do			.29			.18				.07	.11		.20	.40	T.						.16											1.41
Ironton	...do			.67								.07	.03	.25	.63	.29						.23											2.17
Kremmling	Grand			.05	T.			T.			.04		.03	.30	.25							.33								.01	.14		1.15
Lake City	Gunnison			.14	.04							.01	.17	.52	.57	T.						.06											1.51
Lay	Yampa			.50	.20								T.		T.							.25									T.		0.95
Leal	Grand			.10							T.			.40								.40									.30		1.20
Lujane	Gunnison			.10								.05		.35	.35							.31											1.16
Mancos	San Juan			.05				.38	T.	.03		.05		1.36	T.																		1.87
Marble	Grand			.20	.05							.02		.35	.30	.10						.22								.06	.05		1.35
Marshall Pass	Gunnison			.12					T.				T.	.28	.23	.17						T.											0.80
Meeker	White			.20								.02		.01	.01							.55								*	.29		1.08
Montrose	Gunnison													.54	.06																		0.20
Nast	Grand			.19	T.			T.						.48	.22	T.						.21									.18		1.68
Pagoda	Yampa				.25						.08	T.		T.	T.							.40								.30			1.03
Pagosa Springs	San Juan			T.			T.	T.	.10	.08		T.	T.	.39	.18	.07																	0.82
Paonia	Gunnison			.11					.12	T.				.14	.15							.05											0.57
Parshall	Grand			.33										.33							.30										.03		0.99
Pitkin	Gunnison			T.					.05				.10	.13	.17																		0.45
Rangely	White			.03						T.	T.		.02	.23	T.	T.						.10								T.			0.38
Redcliff	Grand			T.	.31	T.					.10			T.	.40	.30						.28					.04	T.	*	.62			2.05
Rico	Dolores			.07	.06		T.	.07	.08	.09		.08	.03	.19	.49	.02						T.											1.18
River Portal	Gunnison			.30			.02			.01			.42	.40	.13						.14												1.42
Sapinero	...do			.55	.16			T.	T.	.01	.01	.02	.01	.65	.59	.01						.30								.01	.01		2.33
Shoshone	Grand			.22	T.		.05				.01		.01		.02							.31									.13		0.75
Silverton (1)	San Juan			.16	.05			.02	.02	.02			.02	.45	.70	.10						.18											1.72
Silverton (near)	...do			.20				T.		T.	T.	T.	*	.30	.10							T.											0.60
Spruce Lodge	Grand			.06	.06	.02					.09	.15	.12		.53	.10						.44									.36		1.93
Steamboat Springs	Yampa													.51																	.70		1.21
Tacoma	San Juan			T.				T.	.02	.15	.29	.03	.05	.35	.15																		1.04
Terminal Dam	...do							T.	.05	.05	.02	.02	.01	.20	.44																		0.79
Uncompahgre Plateau	Gunnison			.14				T.					T.	.07	.20	.05						T.											0.46
Whitepine	...do			.20										.20	.50																		0.90
Yampa	Yampa			.04							.03				.04	.06						.06									.17		0.40
Utah.																																	
Baker	Colorado			.12									1.30	T.	T.															T.			1.42
Basin	Grand			.30	.08		.25			.35	.10	.03	.02	.15	.11	.03						.10									.12		1.64
Castle Dale	Green																																0.00
Emery	Colorado																																0.00
Escalante	...do													.43																			0.43
Fort Duchesne	Green											.10	T.	T.		T.																	0.10
Grayson	San Juan							T.		.10				.50																			0.60
Green River	Green																																0.00
Hanksville	Colorado																	.07				.01											0.08
Hite	...do						T.		.01	T.			.01	.10	T.																		0.12
La Sal	Grand						T.	T.	T.	.26	T.		T.	.05	T.															.06	T.		0.37
Loa	Colorado																																0.00
Mill Canyon	...do																																
Moab	Grand																																
Monticello	...do																																
Orderville	Colorado						.02			.02		T.	T.	T.																			0.04
Price	Green																																
Ranch	Colorado						.20			.13	T.		.11																				0.44
St. George	...do												T.																				T.
Scofield	Green																																0.00
Springdale	Colorado																																
Strawberry	Green			.65	.10							T.	.01		.15							.15											1.06
Sunnyside	...do									.02			.05	.02	.05	T.																	0.14
Theodore	...do			T.							.03	T.		T.																	T.		0.03
Tropic	Colorado																																
Vernal	Green																																0.00
New Mexico.																																	
Alma	Gila						T.			.60			T.	.14		.12																	0.86
Aragon	...do						T.	.24	.17	.30	T.																						0.71
Blackrock	Little Colorado				.02		.14	.23			.02	.20	.02		.02																		0.65
Bloomfield	San Juan	T.							.15	.05				.33	T.	T.																	0.53
Cambray	Mimbres								.40																								0.40
Columbus	Gila							T.	.01	.08																							0.09
Deming	Mimbres								*	.02																							0.02
Dulce	San Juan				T.			.14	.04	.12				.21	.05																		0.56

TABLE 2.—*Daily precipitation for April, 1910. District No. 9*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
New Mexico—Cont'd.																																	
Fort Bayard	Mimbres					T.			.50	.03			T.	.02																			0.55
Fort Wingate	Little Colorado			.36					1.00	.10	.20					T.																	1.66
Fruitland	San Juan							.02	.10	.02				.90	T.																		1.04
Gage	Mimbres									.04																							0.04
Gila (near)	Gila						.04		.06	.60					T.	.14																	0.84
Hachita	...do							T.		T.																							T.
Haynes	San Juan				.10			.18	.13	.25	T.			.12	.18	.06																	1.02
Hermanes	Gila																																0.00
Lordsburg	...do						.02																										0.02
Luna (near)	...do																																.....
Manuelito	Little Colorado																																.....
Mimbres	Mimbres								.08	.46				.04																			0.58
Pratt	Gila																																0.00
Putnam	San Juan				.01			.09	.01	.41				.04	.36																		0.92
Redrock	Gila						.12			.56		.04																					0.72
Rodeo	...do						T.	T.	.10																								0.10
Rosa	San Juan																																.....
Arizona.																																	
Allaires Ranch	Sonora	T.					.02		.03																								0.05
Arizona Canal Dam	Salt												.14																				0.14
Aztec	Gila												.20	.49																			0.69
Benson	San Pedro						T.						T.	T.																			T.
Bisbee	...do						T.	T.	.02	.05			T.	T.																			0.07
Bonita	Mimbres						.25							.05																			0.30
Bowie	Gila						.05	.05																									0.10
Buckeye	...do												.12																				0.12
Canille	San Pedro						.30	T.	T.	T.			T.	.15																			0.45
Casa Grande	Gila													T.																			T.
Cave Creek	Verde												.15																				0.15
Chin Lee	San Juan																																.....
Chlarsons Mill	Gila					.15	.47	.10	.33				.07	.32																			1.44
Clifton	...do						.07		.38	.04			T.	.02																			0.51
Cline	Salt												.04	.04																			0.08
Cochise	Desert						.25																										0.25
Columbia	Agua Fria							T.					.15	T.																			0.15
Congress	Hassayampa						T.	T.					.14	.05																			0.19
Courtland	White																																0.00
Dos Cabezos	Desert						.11		.57																								0.68
Douglas	Sonora						T.	.02		T.																							0.02
Dudleyville	Gila																																.....
Fairbank	San Pedro																																0.00
Flagstaff (1)	Little Colorado						.05	T.	.02	.01			.11	.33	T.																		0.52
Florence	Gila																																0.00
Fort Apache	Salt						.18		T.				.15	.34	.10	T.																	0.77
Fort Huachuca	San Pedro						T.	T.							T.																		T.
Fort Mohave	Colorado												.06	T.																			0.06
Gilabend	Gila													T.																			T.
Globe	Salt						.03			.08			.04	.04																			0.19
Grand Canyon	Colorado																																.....
Greer	Little Colorado																																.....
Hereford	San Pedro																																.....
Holbrook	Little Colorado							.05		.05			.45																				0.55
Intake	Salt						.01			.06			.05																				0.12
Jerome	Verde						T.		T.				.25	.15	.03																		0.43
Keams Canyon	Little Colorado						T.		.40	.70			T.	.40																			1.50
Kingman	Colorado																																.....
Lewis Springs	San Pedro						T.	.01																									0.01
Maricopa	Gila												.11																				0.11
Mesa	Salt						.03		T.				.02																				0.05
Mohawk Summit	Gila												.04																				0.04
Naco	San Pedro																																0.00
Natural Bridge	Verde												.45	.26																			0.71
Nogales	Santa Cruz																																.....
Oracle	San Pedro												.38																				0.38
Osborn	...do						T.	.03																									0.03
Paradise	Desert							T.		T.				T.																			T.
Parker	Colorado												.21	.01																			0.22
Payson	Verde						.10	T.	T.				.43	.22	T.																		0.75
Phoenix (1)	Salt						T.	T.					.27	.02																			0.29
Pinal Ranch	...do							T.	.06				.46	.04																			0.50
Pinto	Little Colorado			T.				.03		T.			.05	.04																			0.12
Prescott	Hassayampa																																.....
Quartzsite	Colorado												.36	.02																			0.38
Redrock	Santa Cruz						T.						.20																				0.20
Roosevelt	Salt						T.			T.			.28	T.																			0.28
Sacaton	Gila													T.																			T.
St. Johns	Little Colorado																																.....
St. Michaels	...do			T.			T.	T.	T.	.32	T.		T.	.06	T.	T.																	0.38
Salome	Colorado								T.	T.			.29	.43																			0.72
San Carlos	Gila						.09	T.	T.																								0.09
San Simon	...do						.01	.02																									0.03
Seligman	Verde																																.....
Sentinel	Gila														.20																		0.20
Showlow	Little Colorado																																.....
Silverbell	Santa Cruz																																.....
Supai	Colorado																																.....
Tempe	Salt												.01																				0.01
Thatcher	Gila			.10	T.		.05	T.	T.	T.		T.	.05																				0.20
Tombstone	San Pedro								.14																								0.14
Truxton	Little Colorado																																.....
Tuba	...do						.03			T.			T.	.30	.09																		0.4_2
Tucson	Santa Cruz						.01					T.	T.	.07																			0.0_8
Vail	...do													.01																			0.0_1
Walnut Grove	Hassayampa						T.	T.					.27																				0.2_7
Wickenburg	...do												.03																				0.0_3
Willcox	Desert						.10																										0.1_0
Williams	Colorado						.12		.70				T.																				0.8_2
Winslow	Little Colorado						T.							.20																			0.2_0
Yarnell	Hassayampa					.02	T.	T.																									0.0_2
Yuma	Colorado												T.																				T.
Nevada.																																	
Las Vegas	Colorado					T.										T.																	T.
Logan	...do												.06	.01																			0.07

TABLE 3.—*Maximum and minimum temperatures at selected stations, April, 1910. 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 (Experiment station).		Fort Bayard.		Fort Wingate.	
	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...	55	25	65	24	61	27	67	35	50	27	65	22	59	18	59	20	67	24	75	37	.....	.....	78	32	62	30	66	28
2...	48	30	64	35	62	26	70	35	54	22	65	24	60	23	53	25	70	30	71	40	.....	.....	78	38	67	37	66	18
3...	41	13	56	28	55	24	59	32	45	24	61	25	54	23	64	19	60	33	54	37	.....	.....	70	45	65	35	63	39
4...	47	11	50	18	50	24	52	28	46	25	42	22	54	18	59	32	55	17	58	33	.....	.....	67	32	67	38	62	12
5...	51	18	63	24	59	22	62	32	48	25	57	19	55	20	56	31	62	22	62	35	.....	.....	76	30	68	39	54	36
6...	53	17	61	24	51	30	53	37	56	25	58	24	57	20	63	32	66	27	64	43	.....	.....	67	49	65	38	54	33
7...	57	23	63	26	58	37	68	35	47	28	61	28	57	20	66	32	67	29	71	45	.....	.....	79	36	66	35	59	34
8...	58	24	71	25	60	36	74	42	60	25	67	24	65	22	67	34	71	28	65	44	.....	.....	84	39	64	37	53	35
9...	63	23	71	30	53	36	66	42	60	25	64	30	66	21	68	32	71	31	69	47	.....	.....	80	47	63	35	49	36
10...	59	25	69	31	59	31	69	46	60	25	64	28	62	36	62	30	74	33	77	47	.....	.....	83	39	71	40	58	41
11...	63	23	70	31	62	34	70	45	64	27	61	27	66	36	65	34	70	34	79	45	.....	.....	76	34	72	45	63	35
12...	60	25	68	33	66	41	66	50	65	25	63	29	64	29	58	40	64	43	74	53	.....	.....	72	45	68	35	67	40
13...	51	33	62	33	48	37	64	44	60	32	59	31	57	32	55	29	68	33	73	49	.....	.....	77	48	68	32	60	34
14...	41	23	47	25	45	32	49	36	57	29	49	23	40	26	45	35	59	33	57	44	.....	.....	67	41	62	30	64	31
15...	41	13	49	23	45	25	48	31	35	8	42	22	36	22	65	22	50	29	61	39	.....	.....	66	40	65	33	65	22
16...	50	19	67	26	61	19	61	26	42	16	60	12	59	16	62	31	74	20	72	36	.....	.....	79	31	68	35	65	26
17...	59	26	70	26	69	27	73	31	47	27	66	21	62	23	69	34	78	28	82	40	.....	.....	87	35	73	39	66	12
18...	62	22	74	26	71	34	77	41	61	28	68	21	65	21	71	34	76	30	85	43	.....	.....	90	37	79	45	65	31
19...	71	22	74	33	73	35	79	46	67	27	75	35	74	21	73	35	81	30	86	45	.....	.....	94	37	79	47	75	34
20...	70	26	77	40	73	35	82	49	71	23	74	33	72	27	74	38	82	35	87	44	.....	.....	86	49	82	50	76	42
21...	60	23	65	37	60	35	62	44	69	34	65	35	66	32	76	39	65	44	84	46	.....	.....	82	39	83	47	75	34
22...	64	22	70	34	69	29	73	39	70	20	68	26	61	22	78	35	75	29	83	42	.....	.....	87	38	81	48	76	32
23...	65	15	76	30	75	35	76	40	68	23	68	29	64	25	73	36	78	32	84	45	.....	.....	93	40	82	49	75	31
24...	70	20	78	36	73	38	81	46	74	24	73	36	72	24	75	32	80	31	89	49	.....	.....	93	41	86	54	76	37
25...	76	31	80	33	74	38	83	48	72	26	76	31	74	25	78	40	83	33	91	50	.....	.....	94	41	86	52	76	39
26...	78	35	81	33	70	37	83	52	75	42	75	32	76	26	82	41	84	37	91	51	.....	.....	93	42	82	53	72	34
27...	74	27	82	39	78	39	85	55	74	34	80	32	76	26	81	46	86	38	87	50	.....	.....	93	56	83	54	78	52
28...	70	30	78	44	76	38	84	53	74	28	76	35	76	28	72	40	81	38	88	51	.....	.....	86	53	85	52	78	43
29...	51	25	69	35	69	36	72	50	76	29	65	34	63	32	75	42	75	42	82	58	.....	.....	83	50	84	53	78	48
30...	58	23	58	26	67	33	70	43	72	33	58	29	53	32	78	40	65	34	82	50	.....	.....	83	40	83	47	75	35
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	58.9	23.1	67.6	30.3	63.1	32.3	69.3	41.1	60.6	25.9	64.2	27.3	62.2	24.9	67.6	33.7	71.2	31.6	76.1	44.6	.....	.....	81.4	40.8	73.6	42.1	67.0	33.5

Date.	Arizona.																								Logan, Nev.	
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson.		Yuma.			
	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	65	39	56	20	69	27	.....	.....	93	41	81	49	.....	.....	59	20	78	40	80	49	90	49	82	37
2	68	42	56	24	69	29	.....	.....	91	44	82	48	.....	.....	62	27	82	38	82	42	90	47	83	41
3	66	48	51	30	68	30	.....	.....	87	52	80	51	.....	.....	61	22	79	36	80	49	83	48	80	43
4	65	41	48	24	65	35	.....	.....	86	52	76	52	.....	.....	45	20	76	41	77	44	82	54	71	39
5	68	43	58	21	70	25	.....	.....	82	42	81	48	.....	.....	62	18	79	35	82	39	83	53	79	35
6	65	48	46	31	63	41	.....	.....	86	60	77	58	.....	.....	60	35	73	55	82	55	83	58	76	35
7	65	43	57	26	66	36	.....	.....	93	49	81	51	.....	.....	54	34	79	46	80	46	88	52	82	45
8	67	43	55	29	71	33	.....	.....	94	49	84	52	.....	.....	55	33	82	41	84	44	90	54	88	45
9	68	43	58	30	69	42	.....	.....	95	52	85	60	.....	.....	56	34	82	41	83	55	90	53	85	53
10	72	46	62	29	73	34	.....	.....	94	55	86	56	.....	.....	65	31	85	41	86	41	91	51	87	50
11	73	48	58	28	79	35	.....	.....	97	55	81	55	.....	.....	65	32	86	41	86	51	76	55	80	53
12	66	46	49	25	63	35	.....	.....	75	51	64	48	.....	.....	65	36	75	43	68	46	64	49	80	48
13	55	36	42	25	44	31	.....	.....	83	52	66	44	.....	.....	47	30	59	46	69	45	81	47	81	45
14	69	41	50	29	62	36	.....	.....	87	56	77	48	.....	.....	45	29	68	34	81	41	87	50	79	41
15	62	38	46	27	55	28	.....	.....	79	59	73	48	.....	.....	45	18	77	35	73	46	80	57	72	44
16	61	34	59	29	66	23	.....	.....	91	40	77	45	.....	.....	57	23	76	41	77	35	86	49	82	37
17	75	42	66	22	76	28	.....	.....	103	45	89	48	.....	.....	66	25	90	34	91	38	97	47	92	43
18	79	49	70	26	81	32	.....	.....	107	50	96	54	.....	.....	70	29	94	39	94	43	102	53	96	44
19	82	50	74	30	82	37	.....	.....	105	56	100	56	.....	.....	74	30	97	43	94	45	103	54	97	51
20	83	51	69	31	83	42	.....	.....	99	58	92	60	.....	.....	73	34	95	45	94	49	97	54	91	47
21	79	51	63	27	73	36	.....	.....	92	59	92	58	.....	.....	62	32	90	44	90	45	97	64	85	43
22	70	52	69	35	79	34	.....	.....	104	49	93	65	.....	.....	67	29	87	46	89	53	102	68	92	44
23	75	51	71	29	82	35	.....	.....	108	55	97	60	.....	.....	73	32	93	41	95	55	105	63	95	50
24	79	52	75	35	80	41	.....	.....	110	54	98	59	.....	.....	75	32	94	44	96	52	106	63	97	49
25	84	51	75	33	85	42	.....	.....	110	54	99	61	.....	.....	74	33	97	43	99	56	102	61	98	48
26	83	58	76	37	86	43	.....	.....	109	63	97	64	.....	.....	76	39	98	47	98	54	103	58	100	47
27	83	56	72	34	85	41	.....	.....	105	67	95	62	.....	.....	79	41	98	46	100	53	102	61	98	58
28	84	58	69	32	84	42	.....	.....	100	60	92	63	.....	.....	79	38	97	47	97	54	96	59	90	56
29	80	56	62	35	75	40	.....	.....	96	62	85	61	.....	.....	75	39	88	49	92	53	91	66	88	49
30	78	49	64	26	76	35	.....	.....	96	52	89	55	.....	.....	70	37	89	37	90	45	92	60	87	43
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	72.3	46.8	60.7	28.6	72.6	34.9	.....	.....	94.9	53.1	85.5	54.6	.....	.....	63.9	30.4	84.8	42.0	86.3	47.4	91.3	55.2	86.4	46.1