

CLIMATOLOGICAL DATA FOR MARCH, 1913.

DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The storms of March in the Colorado Valley were not severe. One, however, proved to be important in that it crossed the Continental Divide, deepening meanwhile, and, together with the secondary depressions that formed in its wake, continued eastward, causing great loss of life and damage to property by winds and flood in the Great Central Valleys. Several days were taken up in the development of this storm in the Southwest, but after it had assumed definite form its progress eastward was rapid. Central in Nevada on the morning of Saturday, the 22d, 12 hours later it had reached eastern Utah, Sunday morning, central Colorado, and by Sunday night the low center overlay eastern Nebraska and Western Iowa. Secondary depressions formed in the eastern part of the Colorado Basin immediately after the passage of the primary storm, but owing to advancing high pressure over the northern half of the plains region their progress eastward was slow and well to the south, thus prolonging the period of heavy rainfall in the central valley.

The month was cold, and over much of the central and southern parts of the Colorado Basin it was the coldest March in 10 or 12 years. In localities in southwestern Colorado and western New Mexico the minimum temperatures of the month were the lowest of record for March. Heavy frost in the central and southeastern parts of Arizona during the last decade damaged truck gardens, apricots, and some of the early varieties of peaches and plums. The precipitation was local in character, and, although it occurred somewhere in the district every day but one, the total for the different drainage areas, except the San Juan, fell short of the average for March. In general there was an excess of sunshine.

TEMPERATURE.

The mean temperature for the stations reporting was 39.7°, or 4.2° below the normal. The mean for March, 1912, was 41.5°. The highest monthly mean was 61.2° at Sentinel and Yuma, Ariz., and the lowest, 9.8°, at Corona, Colo. The first two days were much colder than the normal, especially in the southern half of the district. From the 4th to 10th mean temperatures were generally somewhat above the normal. A severe and general cold spell set in on the 12th, and, except for a day or two here and there, lasted till the 28th; on the 25th and 26th the average deficiency of temperature was 17°. The last two days were considerably warmer than the normal and the highest temperatures for the month occurred generally on those days. Readings of 80° or higher were noted on those dates at the majority of the stations in Arizona, about half of the stations in western New Mexico, and at several in eastern Utah. There was less uniformity in the occurrence of the lowest tempera-

ture at the different stations; they occurred principally on the 1st, 15th, 25th, and 26th. Zero temperature or lower occurred in the different areas, except southeastern Nevada. The highest temperature, 95°, occurred at Parker, Ariz., on the 30th and 31st, and the lowest -25°, at Pagosa Springs, Colo., on the 1st.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	Departure from normal.	Highest.	Station.	Lowest.	Station.
Western Wyoming.....	25.3	-3.0	65	Green River.....	-21	Daniel.
Western Colorado.....	29.0	-4.4	78	Falisesades.....	-25	Pagosa Springs.
Eastern Utah.....	35.6	-4.5	87	St. George.....	-16	Scotfield.
Western New Mexico.....	38.2	-5.2	86	Fratt.....	-19	Dulce.
Arizona.....	49.2	-4.0	95	Parker.....	-17	Lakeside.
Southeastern Nevada.....	52.0	+2.5	91	Logan.....	25	Logan.

PRECIPITATION.

The average for the 204 stations reporting was 0.55 inch, or 0.38 inch below the normal. The average for March, 1912, was 2.91 inches. Precipitation was almost general on the 12th and 13th, 24th and 25th, and it occurred at many stations in western Colorado, western Wyoming, and eastern Utah from the 19th to the 23d. At only 2 stations was the 24-hour fall as much as 1.00 inch. The greatest monthly amount was 6.59 inches at Corona, Colo., while none occurred at 4 stations in eastern Utah, 3 in western New Mexico, and 12 in Arizona. Monthly snowfalls of 10 inches or more occurred at 1 station in western Wyoming, 24 in western Colorado, 5 in western New Mexico, and 4 in Arizona. The greatest monthly fall, 43.6 inches, occurred at Gladstone, Colo. The average number of days with 0.01 inch or more precipitation was 4 in western Wyoming, 7 in western Colorado, 3 in eastern Utah, 4 in western New Mexico, 2 in Arizona, and 1 in southeastern Nevada. For the district as a whole the average was 3 days.

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

WATERSHED.

Green.		Grand.		San Juan.		Little Colorado.		Gila.		Mimbres.		Colorado proper.	
Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.
0.45	-0.55	0.91	-0.65	1.34	+0.31	0.86	-0.50	0.29	-0.67	0.39	-0.38	0.29	-0.76

MISCELLANEOUS.

The average amount of sunshine, in percentages, with departures from the normal, was as follows: Grand Junction, 72, +8; Durango, 69, -1; Phoenix, 88, +10; and Yuma, 93, +8.

The relative humidity reported was: Grand Junction, 50; Durango, 60; Phoenix, 45; and Yuma, 37 per cent.

SNOWFALL IN THE MOUNTAINS.

Western Wyoming.—The snowfall was considerably less than average, but it is well packed. There is the normal amount of snow at high altitudes; at lower elevations it is less than usual, but there will be sufficient water for irrigation purposes.

Western Colorado.—Except in the basin of the San Juan, the snowfall of the month was less than the normal. High temperatures during the closing days caused practically all snow to disappear from southern exposures of moderate elevation. At the end of March the average depth on the Grand watershed, average elevation 8,600 feet, was 29 inches, or 14 inches less than at the close of March a year ago; for the Gunnison, average elevation 8,800 feet, the average depth was 32 inches, or 4 inches less than at the same date last year; for the White and Yampa, average elevation 8,000 feet, the average depth

was 24 inches, or 16 inches less than reported at the corresponding date last year; while the average depth reported on the San Juan, average elevation 7,800 feet, was 15 inches, or 3 inches less than that reported at the corresponding date last year.

Eastern Utah.—The snowfall during March was less than the normal. While the depth at the end of the month was less than a year ago and less than the average, the run-off will be nearly normal.

Western New Mexico.—The favorable conditions that set in during February continued during March on the San Juan watershed and in the Northwest, especially over the Zuni Mountains. A good early supply of water is indicated. On the drainage of the San Francisco, Gila, and Mimbres conditions also continued favorable. Heavy snow fell over the higher mountains, and cold weather has held melting in check.

Arizona.—Although the snowfall of the month was inconsiderable, the steady cold prevented rapid melting, and the depths at the end of the month were much above the average. The snow is deeply drifted in canyons and gulches and on the shady side of high mountains, and is hard packed and frozen. The run-off was not enough to cause more than slight stages in any of the principal streams. Water for irrigation and other purposes promises to be abundant for the coming season.

TABLE I.—Climatological data for March, 1913. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				Prevalving wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.				Number of cloudy days.	
																	No. of days.	No. of days.				
<i>Wyoming.</i>																						
Battle Mountain	Carbon	7,300	1																	U. S. Forest Service.		
Big Piney	Lincoln																			Ira Dodge.		
Danfel	do	6,740	14	19.6	- 3.0	53	31	- 21	25	50	0.32	- 0.93	0.24	4.0	2	16	6	6	0	J. M. VanDervort.		
Eden	Sweetwater	6,577	4	24.8		59	31	- 17	15	45	0.45		0.34	6.0	2	10	13	0		Eden Val. Land & Irrig. Co.		
Green River	do	6,083	8	33.3		65	31	- 5	21	29	0.29		0.13	2.9	4	11	12	0		Geo. H. Maxom.		
Pinedale	Fremont	7,167	7	21.0		51	31	- 20*	26	52*	0.14		0.10	1.7	2	12*	13*	4*		U. S. Forest Service.		
Wamsutter	Sweetwater			27.9		64*	30	- 6	25	40	0.56		0.22	7.8	4	11	12	0		T. C. Sherman.		
Willow Creek Cabin	Fremont	7,500	4								1.32		0.23	26.0	9	5*	2*	6*		U. S. Forest Service.		
<i>Colorado.</i>																						
Ashcroft	Pitkin	9,483	11	18.6	- 6.9	46	10	- 13	15	45										Dan McArthur.		
Breckenridge	Summit	9,536	24																		Albert S. McCullough.	
Buford	Rio Blanca		2																		Mrs. H. Genier.	
Cascade	San Juan	8,900	6								2.74										San Juan Water & Power Co.	
Cadaredge	Delta	6,175	15	35.0	- 3.7	69	31	- 7	15	32	0.05	- 1.51	0.05	0	1	15	12	4			Harry A. Cobbett.	
Cochetopa	Saguache	9,088	4																		Miss Bessie McDonough.	
Collbran	Mesa	6,000	20	32.0	- 6.4	67	31	- 1	15	32	0.65	- 1.18	0.23	10.5	9	13	10	8	sw		A. A. Wood.	
Columbine	Routt	8,766	3								0.42			0.05	34.0	14	10	8	13	sw		Mrs. M. A. Caron.
Columbine Ranch	Delta	6,925	3								1.73			0.70	19.0	5	14	3	14	sw		George W. Wade.
Corona	Grand	11,660	6	9.8		35	17	- 15	27	37	6.59			1.10	24						U. S. Weather Bureau.	
Cortez	Montezuma	6,100	2	33.4		71	31	- 5	1	44	0.21			0.06	3.5	4	20	6	3	sw		W. G. Clucas.
Crawford (near)	Montrose	6,600	3	30.2		60	31	- 0	15	34	0.34			0.08	9.5	8	17	9	5	sw		C. W. Roe.
Crested Butte	Gunnison	8,867	3	18.0		52	31	- 16	27	54	2.18			0.45	28.0	8	9	9	13	sw		Charles L. Ross.
Dillon	Delta	4,965	23	37.2	- 4.4	70	30	- 9	15	42	0.04	- 0.69	0.02	2.0	2	19	7	5			E. M. Getts.	
Durango	Summit	8,800	3	18.6		53	18	- 16	16†	56	0.10			0.03	6.0	5	19	2	10	nl		F. S. Phillips.
Eureka	La Plata	6,534	18	31.8	- 5.7	69	31	- 4	4	14†	37	+ 0.99	1.30	17.8	9	12	10	9	rw		U. S. Weather Bureau.	
Fraser	San Juan	10,000	6								1.24			0.40	13.0	7	11	13	7	sw		San Juan Water & Power Co.
Fruita	Grand	8,560	4	16.2		49	31	- 18	25	51	0.75			0.20	7.5	8	2				L. D. C. Gaskill.	
Glade Park	Mesa	4,510	14	38.5	- 4.4	74	30	- 14	1	45	0.25	- 0.84	0.06	2.2	6	13	13	24	se		J. B. Wilkes.	
Gladstone	do	7,000	6								0.46			0.18	6.0	6	17	13	1	sw		A. F. Terrill.
Glenwood Sp'gs (near)	San Juan	10,400	6								3.33			0.52	43.6	15	9	3	19	sw		San Juan Water & Power Co.
Grand Junction	Garfield	5,823	15	32.0	- 7.1	58	17	- 2	2	42	0.35	- 0.96	0.12	3.0	3	16	3	12	w		E. A. O'Neil.	
Grandlake	Mesa	4,602	22	40.7	- 2.8	76	31	- 18	15	37	0.37	- 0.34	0.20	2.2	5	12	10	9	se		U. S. Weather Bureau.	
Grand Valley	Grand	8,153	5								0.63			0.20	9.0	4	9	14	8	w		Mrs. Belle Kauffman.
Gunnison	Garfield	5,089	21	39.2	- 0.7	75	31	- 9	13	51	1.32	- 0.08	0.52	2.0	5	12	10	9	sw		David Evans.	
Hayden	Gunnison	7,670	20	23.2	- 4.0	61	31	- 15	2	45	0.46	- 0.20	0.22	7.8	6	19	12	0	sw		Clarence Adams.	
Hesperus (near)	Routt	6,337	...	27.1		59	31	- 7	15	38	0.97			0.43	10.5	7	13	9	sw		A. W. Friederich.	
Horsely	La Plata	7,610	1								1.83			0.80	27.0	6	16	3	12	sw		G. F. Snyder.
Ironton	Montrose	8,700	3								1.72			0.50	11.2	6	11*	7*	12*	nl		Lawrence J. Finch.
Lake City	Ourray	10,000	3								0.60			0.25	11.0	6	13	7	11	ne		Mrs. Amanda E. Foley.
Lay	Hinsdale	8,686	8	24.2		57	31	- 8	15	41	0.69			0.25	11.0	6	13	7	11	nl		A. F. Maurel.
Manitou	Moffat	6,190	19	28.0	- 3.6	64	31	- 11	25	43	0.78	- 0.71	0.25	9.5	5	12	3	16	n		G. G. Wallihan.	
Manitou	Montezuma	6,960	14	30.7	- 7.4	66	31	- 7	14	40	1.68	- 0.58	0.65	15.1	5	15	2	2	sw		B. M. Krupanitzky.	
Marble	Gunnison	7,951	4	26.2		57	31	- 7	25	46	1.39			0.42	20.0	7	20	4	e		F. B. Morse.	
Marshall Pass	Saguache	10,846	10								1.50	- 0.72	0.26	18.0	8	13	6	12	sw		Wm. L. Williams.	
Meeker (near)	Rio Blanca	6,182	21	31.4	- 3.2	66	31	- 5	14	40	0.11	- 1.48	0.06	4.0	3	14	5	12	sw		T. Baker.	
Montrose	Montrose	5,811	24	37.1	- 3.0	73	31	- 9	15	39	0.19	- 0.63	0.08	1.1	4	21	6	4	sw		U. S. Reclamation Service.	
Nast	Pitkin	7,953	3	21.4		52	31	- 15	15	51	0.66			0.15	8.5	6	13	10	8	w		Arthur Hawthorn.
Pagos Springs	Archuleta	7,108	6	24.0		59	30	- 25	1	61	1.53			0.27	17.6	12	15	9	7	sw		E. T. Walker.
Palsades	Mesa	4,729	2	40.4		78	31	- 13	1	43	T			T	T	0	12	13	6	sw		E. F. Updegraff.
Paonia	Delta	5,694	18	36.4	- 4.4	72	31	- 9	15	37	0.52	- 0.93	0.23	5.5	4	10	16	5	sw		J. M. Underwood.	
Pitkin	Gunnison	9,500	4								1.10			0.37	14.0	5	18	3	10	s		Mrs. Maggie Cammann.
Pyramid	Rio Blanca		2																		E. E. Egly.	
Redcliff	Eagle	8,695	20								2.07	- 0.23	0.37	24.8	11	15	3	13	sw		Dorothea Greiner.	
Redvale	Montrose	6,800	11	33.1		68	31	- 1	15	33	0.35			0.23	2.0	2	15	11	5	sw		Dr. E. S. C. Foster.
Rico	Dolores	8,824	11																		Clinton B. Smith.	
Rifle	Garfield	5,437	2	36.2		72	31	- 10	15	39	0.21			0.07	3.1	5	10	5	16	sw		Herman Eiche.
River Portal	Montrose	6,570	7	32.8		70	31	- 5	15	41	0.30			0.11	2.8	6	18	3	10	sw		U. S. Reclamation Service.
Sapinero (near)	Gunnison	8,125	10	24.2	- 5.9	57	31	- 3	27	40	1.97	+ 0.03	0.37	20.6	10	18	4	9	w		W. F. Irving.	
Shoshone	Garfield	6,110	3	35.4		65	31	- 8	15	38	0.54			0.14	3.6	11	10	11			Central Colorado Power Co.	
Silverton (near)	San Juan	9,400	6	19.8		56	31	- 11	16†	49	0.90			0.17	16.5	10	11	4	16	sw		San Juan Water & Power Co.
Spruce Lodge	Grand	9,600	5								1.01			0.23	11.5	9	12	7	12	nl		H. J. Wills.
Steamboat Springs	Routt	6,683	10	25.4	- 1.9	61	31	- 17	25	54	1.47	- 0.27	0.43	12.5	6	18	6	7	sw		Herbert B. Gee.	
Tacoma	La Plata	7,300	6								1.10			0.83	18.2	6	12	10	9	sw		San Juan Water & Power Co.
Telluride	San Miguel	8,756	1	25.4		58	31	- 0	25	41	1.54			0.39	17.6	10	17	7	7	e		David S. Painter.
Terminal Dam	La Plata	8,300	6								1.67			1.00	20.5	7	14	7	10	w		San Juan Water & Power Co.
Yampa (near)	Routt	8,000	4								0.51			0.13	1.5	7	14	8	9	n		W. A. Charis.
<i>Utah.</i>																						
Aneth	San Juan	4,800	9	41.8		79	31	- 18	15	43	0.68			0.58	4	16	10	5	sw		H. R. Antes.	
Bluff	do	4,200	1	38.1		74	31	- 22	23	42	0.58			0.52	3	19	1	11			H. H. Redd.	
Boneta	Wasatch	6,750	1								0.80			0.20	8.0	6					Oscar Wilkins.	
Canaan	Washington										0.27			0.10	4						J. M. Lauritzen.	

TABLE 1.—Climatological data for March, 1913. District No. 9—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Prevailing wind direction, and Observers. Includes sections for Utah, New Mexico, and Arizona.

TABLE 1.—Climatological data for March, 1913. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			Number of overcast days.
<i>Arizona—Continued.</i>																				
Kingman	Mohave	3,326	8	50.0		85	31	21	26	42	0.02		0.02	0	1	22	0	9	sw.	Agent A., T. & S. F. Ry.
Lakeside	Navajo	6,500	16	30.6		74	31	17	1	50	1.11	-0.81	0.72	0	4	12	9	10	sw.	Prof. Joseph Peterson.
Lewis Springs	Cochise	4,029	4								T.		T.	0	0	19	6		Agent E. F. & S. W. R. R.	
Lowell Observatory	Cocconino	7,180	2								1.68		0.68	16.8	4	4			Vesto M. Slipper.	
McNeal	Cochise	4,150	2								0.03		0.03	0	1	19	2	3	sw.	Gladys Taylor.
Maricopa	Pinal	1,186	36	56.0	-5.9	90	30†	27	16	56	T.	-0.46	T.	0	0	24	3	4	Agent Southern Pac. Ry.	
Mocasin	Mohave	4,500																	J. G. Maxwell.	
Mohawk Summit	Yuma	538	13	57.8	-6.8	87	6†	38	27	37	0.00	-0.26	0.00	0	0	27	1	7	Agent Southern Pac. Ry.	
Naco	Cochise	4,579	2								0.00		0.00	0	0	27	4	0	Agent E. F. & S. W. R. R.	
Natural Bridge	Gila	4,990	2								0.97		0.45	2.0	3	18	7	6	sw.	D. G. Goodfellow.
Oracle	Pinal	4,500	21	49.1	-4.8	81	31	21	3†	43	0.60	-1.03	0.60	3.5	0	26	3	4	sw.	J. W. Lawson.
Osborn	Cochise	4,676	4								0.00		0.00	0	0	20	2	0	Agent E. F. & S. W. R. R.	
Paradise	do	5,436	3	43.1		78	30†	8	1	51	0.59		0.47	1.0	2	10	15	6	sw.	J. C. Hancock.
Parker	Yuma	5,345	17	58.6	-4.0	95	30†	28	19†	50	0.00	-0.27	0.00	0	0	29	2	0	sw.	M. A. Isreal, M. D.
Payson	Gila	5,550	18	42.6		81	30†	1	1	51	0.54		0.28	3.0	0	15	11	5	sw.	Mar McDonald.
Phoenix	Maricopa	1,108	18	56.7	-3.8	86	31	34	1	39	0.07		0.07	0	1	20	5	6	sw.	U. S. Weather Bureau.
Phoenix (1)	do	1,092	23	55.0	-4.2	88	31	28	27	47*	0.05	-0.59	0.05	0	1	24	5	2	sw.	Geo. Acuff.
Phoenix (2)	do	1,189	4	58.0		91	31	32	1	45	T.		T.	0	0	23	7	1	sw.	Salt Riv. Val. Nurseries.
Pinal Ranch	Pinal	4,520	19								0.33	-2.07	0.17	3.0	0	17	3	0	sw.	Iron & Craig.
Pinedale	Navajo	6,500									0.24		0.05	2.0	5	10	18	3	sw.	E. Thomas, Jr.
Pinto	Apache	5,620	9								0.25		0.25	5.0	1	17	2	12	sw.	Celia F. Henning.
Prescott	Yavapai	5,320	46	38.2	-5.7	78	31	2	1	46	0.17	-1.54	0.10	1.7	2	26	3	2	sw.	Dr. J. W. Flinn.
Prescott Dry Farm	do	5,008	1			80	31	17	15†	45	0.20		0.20	2.0	1	16	14	1	sw.	L. L. Bates.
Quartzsite	Yuma	800	5	54.9		90	30	26	27	55	0.25		0.25	0	1	20	11	0	nw.	W. E. Scott.
Redrock	Pinal	1,804	4																	A. B. Lee.
Rice	Gila	2,665	30	51.6	-3.9	88	31	18	26	53	0.20	-0.94	0.16	0	2	22	6	3	sw.	Arthur Pritchard.
Roosevelt	do	2,175	8	55.8		80	11†	32	27	47	0.21		0.16	0	2	15	15	1	sw.	U. S. Reclamation Service.
Sacaton	Pinal	1,280	5	56.3		90	31	27	16	47	0.00		0.00	0	0	0	0	0	sw.	E. W. Hudson.
St. Johns	Apache	5,650	6	36.4		99	22	4	20	58	0.55		0.30	5.5	2	19	1	11	sw.	Alexander Shreeve.
St. Michaels	do	6,950	25	39.2	+0.4	70	31	6	1	44	0.94		0.48	6.2	3	16	13	2	sw.	Rev. Anselm Weber, O. F. M.
Salome	Yuma	1,875	6																	M. B. Swartz.
San Simon	Cochise	3,609	30	46.7	-9.5	88	31	9	15	56			0.20	4.0	1	24	2	5	sw.	Agent Southern Pac. Ry.
Seligman	Yavapai	5,219	7	40.2		90	31	13	1	44*	0.20		0.20	4.0	1	23	3	5	n.	Lib. A., T. & S. F. Ry.
Sentinel	Maricopa	685	15	61.2	-3.8	89	31	32	4	45	0.00	-0.16	0.00	0	0	28	3	0	sw.	Agent Southern Pac. Ry.
Silverbell	Pima	2,650	8			90	31				0.02		0.02	T.	1	25	0	6	sw.	Imperial Copper Co.
Snowflake	Navajo	5,644	6	37.4		79	30	4	25	58	T.		T.	0	0	13	9	9	sw.	William J. Flake.
Springerville	Apache	6,862	1	37.3		78	19	4	26	55	0.10		0.10	0.8	1	20	4	7	sw.	U. S. Forest Service.
Supai	Cocconino	3,200	5	51.9		87	31	28	26	38	0.41		0.20	0	3	1	1	1	sw.	Laura B. Symons.
Tempe	Maricopa	1,165	9	56.0		89	31	23	2	47	0.09		0.09	0	1	19	11	1	nw.	F. H. Simmons.
Thatcher	Graham	2,500	10	51.9d	-3.1	93	31	23	16	58d	0.26	-0.60	0.10	0	0	15	15	1	w.	J. H. Larson.
Tombstone	Cochise	4,550	14	52.6	-1.8	86	31	26	14	38	0.08	-0.77	0.04	0	2	22	9	0	sw.	F. N. Walcott.
Truxton	Mohave	3,997	4	47.2		83	31	20	26	44	0.30		0.15	1.5	2	12	16	3	sw.	Truxton Cany. Indian Sch'l.
Tuba	Cocconino	4,500	17	42.2	-4.7	80	31	18	1†	41	0.31	-0.10	0.10	5.0	7	13	15	3	sw.	Ira Bell.
Tucson	Pima	2,390	41	53.9	-4.9	90	31	26	26	49	0.12	-0.54	0.12	0	1	10	18	3	nw.	University of Arizona.
Tucson (1)	do	2,386	5	52.8		90	31	21	26	56	0.15		0.15	0	1	24	6	1	nw.	Rev. James F. Record.
Tucson (2)	do	2,526	2	54.6		90	31	26	26	48	0.20		0.20	0	1	21	7	3	w.	U. S. Coast & Geod. Sur.
Vail	do	3,421	14	52.8		76	30	22	25	40	0.00	-0.43	0.00	0	0	17	0	14	e.	Agent Southern Pac. Ry.
Walnut Grove	Yavapai	3,649	22								0.12	-1.22	0.07	0	3				sw.	J. O. Carter.
Wickenburg	Maricopa	2,072	15	54.0	-2.0	88	31	26	1†	52	T.	-0.66	T.	0	0	21	6	4	nw.	Agent S. F. P. & P. Ry.
Willcox	Cochise	4,164	30	48.3	-4.5	74	22	20	16	48	0.85	+0.06	0.85	0	1	21	7	3	sw.	Agent Southern Pac. Ry.
Williams	Cocconino	6,750	11	35.0	-5.2	72	31	0	1	45	0.40	-1.53	0.25	4.0	2	19	12	0	sw.	E. J. Nordyke.
Winslow	Navajo	4,853	5																	Winslow High Schools.
Yuma	do	141	33	61.2	-3.3	94	30	36	3	48	T.	-0.35	T.	0	0	30	1	0	n.	U. S. Weather Bureau.
Yuma (1)	do	150	6	55.6		90	30	26	16	54	T.		T.	0	0	27	3	1	nw.	C. J. Wood.
<i>Nevada.</i>																				
Caliente	Lincoln	4,407	3			81	30				0.30		0.30	3.0	1	24	3	4	sw.	Salt Lake Route.
Las Vegas	Clark	2,033	11	52.0	+2.5	88	31	26	27	47	0.01	-0.24	0.01	0	1	21	10	0	s.	C. P. Squires.
Logan	do	1,355	6	52.0		91	31	25	26	47	0.00		0.00	0	0	27	4	0	n.	Orin W. Jarvis.

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

TABLE 2.—Daily precipitation for March, 1913. District No. 9—Continued.

Stations.	Watershed.	Day of month.																														Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31			
<i>Utah—Continued.</i>																																				
San Rafael	Green																																	0.00		
St. George	Colorado											.13	.04																					0.34		
Scofield	Green												.09	.07							.05	.14	.09	.04									0.48			
Springdale	Colorado																																			
Strawberry Tunnel (east)	Green																																			
Teasdale	Colorado											.05	.05	T.							T.	T.	T.	T.									0.20			
Thompsons	Green						T.					.08	T.								T.													0.26		
Tropic	Colorado						T.						.40	T.							T.													0.40		
Trout Creek Ranger	Green																																			
Vernal	do.											.25	.07									.14												0.46		
Victor	do.																																		0.00	
White Rocks	do.								.35			.13	.07									T.	.02	T.			T.							0.57		
Woodside	do.						.07					.16																							0.23	
<i>New Mexico.</i>																																				
Alma	Gila									T.		.51	.15																					0.66		
Aragon	do.											.30	.30																						0.60	
Aztec	San Juan						.07					.03	.40	.28																					1.08	
Bergers Ranch	Little Colo.	.23										.40	.48	.50									.26											3.65		
Blackrock	do.	T.					.26	.07				T.	T.		T.							.15												0.48		
Bloomfield	San Juan																																			
Cambray	Mimbres							.02																											0.02	
Cliff	Gila									T.			.34																						0.34	
Columbus	Mimbres												T.																						T.	
Deming	do.							.20					.20																						0.20	
Dulce	San Juan						.20					*	.70										.50				*	*		.30				1.70		
Fort Bayard	Mimbres						.10	.01				.06	.05	.05	T.												T.	T.						0.27		
Fruitland	San Juan																																			
Gage	Mimbres											.04	.09		.25	.32	.09	.07					.12				T.	.03	T.					1.01		
Gila Planting Station	do.																																			
G. O. S. Ranch	Gila											.07	T.		.06	.16																			0.29	
Hachita	do.											.07	T.		.05	.05	.10						.06	.03			.02	T.	.02	.04	.03	.10		0.50		
Haynes	San Juan													.23	.04																				0.45	
Hermans	Mimbres	.18											.06		.43	.02																			0.51	
Lordsburg	Gila											.25	.40	T.																					0.75	
Luna	do.											.21	.10																						0.63	
Mimbres	Mimbres							.29				.21	.40	T.				.03																	1.56	
Pinos Altos (near)	Gila							.56				.05	.16	.56														*	.13	.10				0.15		
Pratt	do.							.15				T.	T.																						T.	
Putnam	San Juan											.05	T.		.20	.10																			0.35	
Redrock	Gila							.05	T.				T.		.20	.10																			T.	
Rodeo	do.								T.						T.																					T.
Silver City	Mimbres							.08				.20	.20	T.	.03																				0.56	
<i>Arizona.</i>																																				
Allaires Ranch II	Sonora						.24					.31		T.																					0.55	
Alpine	Gila																										.05	.30	.15						0.50	
Ashfork	Verde																											.05	.05							0.05
Aztec	Gila																																			0.00
Benson	San Pedro													.33																						0.33
Bisbee	do.													T.																						T.
Blue	Gila							.05						T.	.35		.23																			1.01
Bonita	do.																																			T.
Bowie	do.													T.	.20	T.																				0.25
Buckeye II	do.																																			0.00
Canille	San Pedro							.02					.10																							0.12
Casa Grande	Gila												.07																							0.07
Casa Grande Ruins	do.												.12																							0.12
Chandler	Salt												.12																							0.00
Chin Lee	Little Colo.																																			0.00
Charlsons Mill	Gila												.38			.05																				0.43
Clifton	do.											.22	.10																							0.32
Cline	Salt																																			
Cochise	Desert										.10				.50																					0.60
Columbia	Agua Fria																																			0.15
Courtland	White														T.																					T.
Dos Cabezos	Desert											.06			.30	.44																				0.80
Douglas	Sonora							.18	.02					T.	.30																					0.20
Dudleyville	Gila														.33	.02																				0.42
Elgin	San Pedro														.25																					0.25
Fairbank	do.														T.																					0.05
Flagstaff	Little Colo.							.05																												1.09
Flagstaff (1)	do.														.28	T.	.03					.02	.02	.07			.19									

TABLE 2.—Daily precipitation for March, 1913. District No. 9—Continued.

Stations.	Watershed.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
<i>Arizona—Contd.</i>																																	
Mohawk Summit..	Gila.....																																0.00
Naco.....	San Pedro..																																0.00
Natural Bridge..	Verde.....											.45	.12													.40						0.97	
Oracle.....	San Pedro..											.60																				0.60	
Osborn.....	do.....																															0.00	
Paradise.....	Desert.....								T.	12		T.		.47	T.																	0.59	
Parker.....	Colorado..																															0.00	
Payson.....	Gila.....										T.	.28	.03								T.	T.			.15	.08						0.54	
Phoenix.....	Salt.....											.07												T.								0.07	
Phoenix (1).....	do.....											.05												T.								0.05	
Phoenix (2).....	do.....																							T.								T.	
Pinal Ranch II..	Gila.....											.16	.17																			0.33	
Pinedale.....	Little Colo.										T.	.10	.03	.05											.01	.05						0.24	
Pinto.....	do.....								T.	T.		T.													T.	.25						0.25	
Prescott.....	Hassayampa											.10													.07	T.						0.17	
Prescott Dry Farm	Verde.....											.20																				0.20	
Quartzsite.....	Colorado..																									.25						0.25	
Redrock.....	Santa Cruz.																																
Rice.....	Gila.....											.04	.16	T.																		0.20	
Roosevelt.....	Salt.....											.16	.02															.03				0.21	
Sacaton.....	Gila.....																															0.00	
St. Johns.....	Little Colo.										T.	T.	.25															.30				0.55	
St. Michaels.....	do.....							T.	T.		T.	T.	T.								T.	.48		T.	.29	.17						0.94	
Salome.....	Colorado..																																
San Simon.....	Gila.....																																
Seligman.....	Verde.....											.20																				0.20	
Santinel.....	Gila.....																															0.00	
Silverbell.....	Santa Cruz.											.02																				0.02	
Snowflake.....	Little Colo.										T.	T.	T.	T.											T.	T.						T.	
Springerville.....	do.....										T.	T.	T.	T.											T.	T.	.10	T.				0.10	
Supai.....	Colorado..												.12													.09	.20					0.41	
Tempe.....	Salt.....											.09																				0.09	
Thatcher.....	Gila.....											.10	.09	.07																		0.26	
Tombstone.....	San Pedro..																																
Truxton.....	Colorado..											.15																				0.30	
Tuba.....	Little Colo.											.07	.03														.10	.01				0.31	
Tucson.....	Santa Cruz.											.12																				0.12	
Tucson (1).....	do.....											.15																				0.15	
Tucson (2).....	do.....											.20																				0.20	
Vail.....	do.....	T.																														0.00	
Walnut Grove.....	Hassayampa											.07																				0.12	
Wickenburg.....	do.....																															T.	
Wilcox.....	Desert.....											.85																				0.85	
Williams.....	Colorado..											.25															.15					0.40	
Winslow.....	Little Colo.																																
Yuma.....	Colorado..																															T.	
Yuma (1).....	do.....																															T.	
<i>Nevada.</i>																																	
Caliente.....	Colorado..												.30																			0.30	
Las Vegas.....	do.....											T.																				0.01	
Logan.....	do.....																															0.00	

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

TABLE 3.—Maximum and minimum temperatures for March, 1913. District No. 9, Colorado Valley.

Table with columns for Wyoming (Daniel, Green River), Colorado (Durango, Grand Junction, Gunnison, Meeker, Steamboat Springs), Utah (Emery, Hite, Moab, St. George, Vernal), and New Mexico (Bloomfield, Fort Bayard). Rows represent dates from 1 to 31, with Max. and Min. temperatures for each location. Includes a 'Mns.' row at the bottom.

Table for Arizona with columns for Bisbee, Flagstaff, Fort Apache, Grand Canyon, Parker, Phoenix, Prescott, St. Michaels, Tucson, Yuma, and Logan, Nev. Rows represent dates from 1 to 31, with Max. and Min. temperatures for each location. Includes a 'Mns.' row at the bottom.

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