

CLIMATOLOGICAL DATA FOR DECEMBER, 1913.

DISTRICT NO. 9, COLORADO VALLEY.

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GENERAL SUMMARY.

During December the pressure distribution in the West was out of the ordinary, in that the winter high area formed over Wyoming and adjacent regions instead of over the middle plateau. The effect of this change was reflected in the weather conditions. In the northern part of the district there was slight variability in temperature, and severe cold was persistent. In the southern part the month was marked by a continuation of the unsettled conditions that were a feature during November. A number of low pressure areas formed; a few moved eastward through New Mexico, while others after shifting positions filled up. All remained in the southwest long enough to cause much unsettled weather and several heavy snowfalls in the mountain districts and adjacent regions. Shortly after the beginning of the last decade very cold weather overspread western Colorado, eastern Arizona, and western New Mexico, bringing zero or lower temperatures to all high stations.

TEMPERATURE.

The monthly mean for the stations reporting was 32.5°, or 2.2° below the normal. The mean for December, 1912, was 29.5°. The highest monthly mean was 54.8° at Mohawk, Ariz., and the lowest, 3°, at Gunnison, Colo. During the first six days, and from the 19th to the end of the month, temperatures were below the normal in the greater part of the district. From the 7th to 18th a slight excess prevailed except in the extreme north, southwestern Colorado, and adjacent parts of Utah. The highest temperatures occurred generally in the first half of the month, and the lowest principally on the 20th, 22d, and 29th. In Arizona the lowest temperature occurred at about half of the stations during the first 5 days. Zero or lower temperatures occurred at all stations in western Wyoming and western Colorado, three-fourths of those in eastern Utah, half in New Mexico, and several in Arizona. The highest temperature, 80°, occurred at San Simon, Ariz., on the 16th, and the lowest, -36°, at Fraser, Colo., on the 22d.

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.....	11.1	-6.2	47	Willow Creek Cabin.	-30	Eden.
Western Colorado.....	17.6	-3.0	61	Fruita.....	-36	Fraser.
Eastern Utah.....	23.4	-1.8	61	Emery.....	-28	Manilla.
Western New Mexico.....	35.1	-2.2	70	Deming.....	-22	Dulce.
Arizona.....	42.8	-2.0	80	San Simon.....	-17	Flagstaff No. 1.
Southeastern Nevada.....	44.0	+5.1	69	Logan.....	19	Logan.

PRECIPITATION.

The average for the stations reporting was 1.16 inches, or 0.09 inch more than the normal. The average for December, 1912, was 0.66 inch. Precipitation was general during the first 5 days, and fairly so from the 14th to the end of the month, except for 2 or 3 days, when it was scattered. Precipitation of an inch or more in 24 hours occurred at 4 stations in Colorado, 2 in New Mexico, and 3 in Arizona. The greatest monthly amount was 3.91 inches at Gladstone, Colo., while none occurred at Aztec, Benson, Quartzsite, and Yuma, Ariz. The snowfall was generally heavy. Monthly amounts of 10 inches or more occurred at 47 stations in western Colorado, 11 in eastern Utah, 9 in western New Mexico, and 15 in Arizona. The maximum monthly fall was 59.5 inches at Gladstone, Colo. The average number of days with 0.01 inch or more precipitation was 4 each in western Wyoming and Arizona, 9 in western Colorado, 5 each in eastern Utah and western New Mexico, and 2 in southeastern Nevada. For the district as a whole the average was 6 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.
0.97	+0.21	1.58	+0.39	2.26	+0.97	1.28	-0.07	0.91	-0.11	1.37	+0.59	0.82	+0.01

MISCELLANEOUS.

The average amounts of sunshine in percentages, with departures from the normal, were:

Grand Junction, 63, 0; Durango, 53, -20; Phoenix, 76, -3; and Yuma, 81, +2.

The relative humidity reported was: Grand Junction, 78, +12; Durango, 71, -2; Phoenix, 62, +14; and Yuma, 50, +4 per cent.

SNOWFALL IN THE MOUNTAINS.

Western Wyoming.—The snowfall was unusually light at the higher elevations, but in the eastern part of the area the fall was greater than usual so early in winter. The snow is not well packed.

Western Colorado.—In the region drained by the Gunnison and San Juan there was a moderate excess, but over the upper Grand, Yampa, and White watersheds the snowfall was less than normal. The average depth on the ground at the end of December, as compared with the

corresponding date last year, was as follows: Grand watershed 17 inches, or +3; Gunnison, 21, or +9; Yampa and White 17, or +1; and San Juan 18, or +6 inches.

Eastern Utah.—The snowfall was above the average and greater than for the corresponding month last year. The snow is packed and the amount on the ground at the end of the month was greater than the average.

Western New Mexico.—There was an excess of precipitation during December. At the end of the month the

average depth at the headwaters of the San Francisco, Gila, and Mimbres was 22 inches; this is greater than the average a year ago.

Arizona.—At the end of the month the depth of snow at the headwaters of the Little Colorado and Salt Rivers was above the average. Over the upper drainage area of the Gila the depths were likewise above the average, but there was less than the average on the Verde watershed.

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

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), Sky, Prevailing wind direction, Observers. Rows are categorized by Wyoming, Colorado, and Utah.

TABLE 1.—*Klimatological data for December, 1913. District No. 9—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	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, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
Utah—Continued.																				
San Rafael	Emery	4,250	1															Jos. J. Nonguier.		
St. George	Washington	2,880	26	37.0	- 0.7	60	15	19	36	0.42	- 0.47	0.26		3	12	3	16	John Tobler.		
Scofield	Carbon	7,625	4	16.6		49	6	23	61	1.03		27.0		9	19	0	12	B. Newren.		
Springdale	Washington	3,500	5	36.4		56	7	18	24	29	-0.80	0.30	8.0	3	13	0	19	Mrs. Hattie F. Wood.		
Strawberry Tunnel	Wasatch	7,650	1	13.8		47	8	27	19	47	1.55	0.45	22.0	5	19	7	5	U. S. Reclamation Service.		
Teasdale	Weayne	7,000	4															Henry Cullum.		
Thompson	Grand	5,150	2	22.2 ^a		53	6	9	39	30	0.59	0.20	8.8	5	15 ^a	3 ^a	9 ^a	Mrs. A. M. Starmont.		
Tropic	Garfield	7,000	16	24.6	- 3.4	50	6 [†]	5	29	40	1.60	+ 1.01	16.0	5	13	4	14	E. P. Bolton.		
Trout Creek Ranger	Uinta	9,200	2															Forester.		
Vernal	do.	5,050	16															H. E. Dillman.		
Victor	Emery	5,250	1									1.05	0.33					F. F. Noyes.		
White Rocks	Uinta	6,200	1									1.30	0.30	13.0	4	7	7	E. C. Sims.		
Woodside	Emery	4,645	2															S. M. Miller.		
New Mexico.																				
Alma	Socorro	4,800	15	36.6	- 0.6	59	12 [†]	14	13 [†]	44	0.40	- 0.36	0.18	1.5	4	8	19	4	Max A. Balke.	
Aragon	do.		6	24.9		56	13 [†]	15	22	50	1.47		0.40	21.0	5	17	11	3	John R. Milligan.	
Astec	San Juan	5,590	13								1.27	+ 0.74	0.30	13.0	8	8	11	12	Dr. T. J. West.	
Bergers Ranch	McKinley	8,000	1																Herman Berger.	
Blackrock	do.	6,500	4																Patrick Des Georges.	
Bloomfield	San Juan	5,500	18	25.3	- 1.8	49	8	12	29	34	1.03	+ 0.41	0.35	8.9	10	10	13	8	Fred Le Clere.	
Cambray	Luna	4,215	14								0.90	+ 0.37	0.50	0	2	25	0	6	Agent So. Pac. R. R.	
Cliff	Grant	4,470	13	40.4	+ 0.3	65	14	21	12	37	1.95	+ 0.81	0.58	5	5	13	4	14	W. C. Belden.	
Columbus	Luna	4,054	4								1.15		0.85	0	2	11	4	16	Agent E. P. & S. W. R. R.	
Crystal	San Juan	7,400																	J. A. Molohan.	
Daming	Luna	4,333	36	44.9	+ 3.9	70	3 [†]	20	13 [†]	48	0.98	+ 0.35	0.98	0	1	30	0	1	Agent So. Pac. R. R.	
Dulce	Rio Arriba	6,767	16	12.1	-10.3	40	3	22	20	42	2.11	+ 0.67	0.55	31.0	11	20	6	5	E. O. Green.	
Fort Bayard	Grant	6,152	44	35.0	- 4.0	57	14	7	22	36	1.15	+ 0.32	0.69	13.4	7	18	6	7	U. S. General Hospital.	
Fruitland	San Juan	4,800	19	27.0	- 1.9	46	18	5	30	36	1.20	+ 0.79	0.50	9.8	7	12	8	11	Cyril J. Collyer.	
Gage	Luna	4,480	13	40.0		59	30	20	28	37	2.05	+ 1.33	1.10	0	2	26	5	0	Agent So. Pac. R. R.	
Gila Planting Station	Grant	6,475	2	33.9		57	14	4	22	38	1.51		0.66	20.0	7	16	10	5	U. S. Forest Service.	
G. O. S. Ranch	do.	8,000	1	29.4		54	14	8	21	44	1.67		0.50	20.5	7	11	14	6	Victor Culbertson.	
Hachita	do.	4,604	4								0.83		0.41	0	4	21	5	5	Agent E. P. & S. W. R. R.	
Haynes	Rio Arriba	6,600	2																Mrs. O. L. Wingate.	
Hermans	Luna	4,451	4								1.23		0.78	0	2	21	0	10	Agent E. P. & S. W. R. R.	
Lordsburg	Grant	4,245	31	39.0	- 3.4	58	31	20	22 [†]	34	0.42	- 0.26	0.27	0.2	3	19	4	8	J. H. McClure.	
Luna	Socorro	7,300	12																C. B. Martin.	
Mimbres	Grant	5,007	8								1.60		0.80	14.0	2	19	9	3	Charles Dennis.	
Pinos Altos (near)	do.	7,253	2								2.16		1.00	25.1	5	14	12	5	O. L. Scott.	
Pratt	do.	4,415	4								0.90		0.60	0	2	25	2	4	Agent E. P. & S. W. R. R.	
Putnam	San Juan	6,200	1																C. F. Spader.	
Redrock	Grant	4,150	8								1.01		0.40	0	4	20	5	6	Robt. H. Woods.	
Rodeo	do.	4,118	4								0.95		0.74	0	2	22	2	7	Agent E. P. & S. W. R. R.	
Silver City	do.	5,937	2	32.4		56	14	5	22	34	1.73		0.92	16.2	6	20	8	3	E. M. Brumback.	
Arizona.																				
Allaire Ranch	Cochise	4,184	17								0.92	- 0.17	0.50	T.	4	15	8	8	ne.	Thomas Allaire.
Alpine	Apache	8,500	4																U. S. Forest Service.	
Ashfork	Yavapai	5,229	2										0.53	0.5	3	15	9	7	Do.	
Aztec	Yuma	492	15	54.5 ^a	+ 0.5	75	2	32	24	40 ^a	1.00	- 0.65	0.00	0.0	0	22	0	9	Agent Southern Pacific Ry.	
Benson	Cochise	3,523	32	41.0	- 5.4	62	1	20	6	32	0.00	- 0.50	0.00	0.0	0	19	1	11	Do.	
Bernardino	do.	4,493	1								1.10		0.55	0.0	4	17	9	5	Operator E. P. & S. W. R. R.	
Bisbee	do.	5,350	23	42.3	- 2.8	65	1	26	22	37	0.54	- 0.51	0.39	1.0	4	23	2	6	Albert W. Owens.	
Blue	Greenlee	6,500	6								1.15		0.45	10.7	3	12	16	8	Do.	
Bonita	Graham	4,916	39								1.30	+ 0.14	0.75	0.0	3	14	11	6	w.	My A. Jones.
Bowie	Cochise	3,756	37	43.8	- 2.7	65	13 [†]	22	34	40	0.62	- 0.45	0.56	T.	2	18	13	0	w.	Agent Southern Pacific Ry.
Buckeye	Maricopa	980	21	49.0	- 1.6	72	7	27	5 [†]	39	0.14	- 0.68	0.14	0.0	1	30	1	0	ne.	H. E. Kell.
Canille	Santa Cruz	5,225	4								0.92		0.48	T.	5	6	21	4	sw.	Robert A. Rodgers.
Carrs Ranch	Gila	5,410	1								2.58		0.91	16.0	9	9	16	6	nw.	J. C. Carr.
Casa Grande	Pinal	1,396	32								0.71	0.00	0.64	0.0	2	19	7	5	sw.	Agent Southern Pacific Ry.
Casa Grande Ruin	do.	1,422	5	50.0		73	14	29	6	38	0.16		0.11	0.0	2	14	10	7	w.	Frank Pinkley.
Cavecreek (near)	Maricopa	1,452	6	50.3		74	13 [†]	30	24	37	0.08		0.07	0.0	2	19	11	1	sw.	John B. Lammers.
Chandler	do.	1,213	18	49.3	- 1.4	72	11	29	24	40	0.59	- 0.31	0.36	0.0	2	24	7	0	ne.	F. V. N. Dana.
Chin Lee	Apache	6,090	5	25.8		44	17	1	22	34	0.45		0.15	4.0	7	3	18	10	n.	Rev. L. Ostermann, O. F. M.
Chlarsons Mill	Graham	8,000	6								2.65		0.84	21.7	7	7	7	0	ne.	Hiram R. Chlarsen.
Clifton	Greenlee	3,584	22	43.4		63	17	27	22 [†]	28	1.38	+ 0.32	0.55	T.	5	25	3	3	Do.	Arizona & New Mexico Ry.
Cline	Gila	2,300	13	45.6	- 0.1	69	11 [†]	28	12 [†]	38	0.72	+ 0.89	0.21	0	5	12	16	3	sw.	W. M. Clanton.
Cochise	Cochise	4,219	15	41.2	- 2.4	63	14	24	22	34	0.80	+ 0.10	0.45	0.2	4	19	11	1	nw.	Experiment Station Farm.
Columbia	Yavapai	1,900	13	48.2	- 2.9	70	16	31	5	31	0.70	- 0.88	0.30	0.0	4	19	3	9	s.	M. F. Nolan.
Cornville	do.	3,300	1	41.8		63	10 [†]	23	12 [†]	39	0.56		0.40	1.5	3	11	15	5	s.	N. F. Girdner.
Courtland	Cochise	4,543	4								1.20		1.00	T.	2	3	8	20	s.	Agent E. P. & S. W. R. R.
Don Luis	do.	5,025	1								T.		T.	0	11	13	7	sw.	Do.	
Dos Cabezos	do.	5,250	5	47.4 ^a		68	13	28	1	32 ^a	1.09		0.42	0.0	4	15	11	5	w.	Neil Erickson.
Douglas	do.	3,930	10	45.4	+ 0.2	72	14	25	6	43	1.05	+ 0.20	0.85	T.	3	17	11	3	sw.	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	22	46.6	- 0.5	69	11 [†]	27	6	39	1.47	+ 0.18	0.75	0.0	8	8	14	9	se.	George F. Cook.
Edgin (near)	Santa Cruz	4,706	1								1.04		0.36	1.5	4	13	14	4	se.	Leonard W. Klens.
Fairbank	Cochise	3,862	4								1.08</									

TABLE 1.—*Climatological data for December, 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, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			Number of cloudy days.
Arizona—Continued.																				
Keams Canyon.....	Navajo.....	6,600	9															Fred A. Bartram.		
Kingman.....	Mohave.....	3,326	10	43.6	- 0.4	64	11	24	5	33	T.	- 0.78	T.	T.	0	18	5	8	Agent A. T. & S. F. Ry.	
Lakeide.....	Navajo.....	6,500	15	23.0		59	12	11	28	54	1.90	+ 0.36	0.60	23.0	5	12	10	9	Jesse H. Rogers.	
Lewis Springs.....	Cochise.....	4,029	4								0.90		0.70	0.0	15	7	9	ne.	Agent E. P. & S. W. R. R.	
Lowell Observatory.....	Cocconino.....	7,180	2								0.88		0.17	16.0	13				Vesto M. Slipher.	
McNeal.....	Cochise.....	4,150	3								1.09		0.69	0.0	23	6	3	nw.	George J. Jones.	
Maricopa.....	Pinal.....	1,188	37	49.0	- 3.5	72	11†	29	3	42	0.60	- 0.20	0.45	0.0	27	4	0		Agent Southern Pacific Ry.	
Marionette.....	Maricopa.....	1,150	1	47.2		66	11†	27	6	36	0.62		0.40	0.0	8	19	4	w.	Theodore Katzenstein.	
Mocasin.....	Mohave.....	4,500	1	32.0		55	6	4	27	38	0.26		0.15	3.0	2	11	12	8	nw.	J. G. Maxwell.
Mohawk.....	Yuma.....	538	13	54.8	- 1.8	78	8	33	29	36	0.02	- 0.46	0.02	0.0	1	22	5	4	Agent Southern Pacific Ry.	
Naco.....	Cochise.....	4,579	4								0.18		0.18	T.	1	21	0	10	Agent E. P. & S. W. R. R.	
Natural Bridge.....	Gila.....	4,990	24								1.69	- 0.21	0.38	6.0	7	13	6	6	Agent F. P. & S. W. R. R.	
Nogales.....	Santa Cruz.....	3,830	7	44.6		70	13	23	5†	42	0.26		0.12	T.	5	21	4	6	D. G. Goodfellow.	
Nutrioso.....	Apache.....	8,000	3								1.78		0.45	20.7	12	16	3	12	Bonsall Noon.	
Oracle.....	Pinal.....	4,502	19	42.4	- 3.9	64	13	23	22	29†	1.76	+ 0.56	0.90	7.5	5	17	3	11	U. S. Forest Service.	
Osborn.....	Cochise.....	4,676	4								0.77		0.65	0.0	2	20	0		J. W. Lawson.	
Paradise.....	Pinal.....	5,436	7	35.0		66	11	12	22	47	1.79		0.90	6.0	4	15	8	8	Agent E. P. & S. W. R. R.	
Parker.....	Yuma.....	345	17	48.9	- 1.3	74	13†	26	6†	44	T.	- 0.44	T.	0.0	0	22	5	4	J. C. Hancock.	
Payson.....	Gila.....	5,550	5	38.4		65	12	14	2	44	1.53		0.43	8.0	6	14	0	17	Mart McDonald.	
Pearce (near).....	Cochise.....	4,400	1	41.5		63	14	25	9†	35	1.05		0.61	T.	4	17	9	5	Clarence H. Wilson.	
Phoenix.....	Maricopa.....	1,108	19	50.7	- 1.2	71	14	30	2	33	0.27	- 0.32	0.18	0.0	6	15	8	8	U. S. Weather Bureau.	
Phoenix (1).....	do.....	1,062	23	48.3	- 1.7	72	11†	27	5†	42	0.50	- 0.24	0.27	0.0	2	14	16	1	David Aepfl.	
Phoenix (2).....	do.....	1,189	5	50.7		73	11†	29	6	38	0.22		0.17	0.0	3	18	11	2	Salt River Valley Nurseries.	
Pinal Ranch.....	Pinal.....	4,520	19								1.63	- 0.62	0.69	6.0	6				Irion & Craig.	
Pinedale.....	Navajo.....	6,500	1								1.02		0.22	19.0	3	8	9	14	E. Thomas, Jr.	
Pinto.....	Apache.....	5,690	9								1.28		0.40	16.0	10	19	0	12	Celia F. Henning.	
Prescott.....	Yavapai.....	5,320	46	33.4	- 3.2	59	31	9	3	37	0.43	- 1.11	0.13	6	13	8	10		Dr. J. W. Flinn.	
Prescott Dry Farm.....	do.....	5,008	1	36.3		65	17	13	3	38	0.52		0.16	2.9	5	12	11	8	L. L. Bates.	
Quartzsite.....	Yuma.....	800	6	46.7		74	31	25	29	39	0.00		0.00	0.0	0	15	14	2	nw.	W. E. Scott.
Redrock.....	Pinal.....	1,864	4								1.57		0.59	0.0	4	26	0	5	Agent Southern Pacific Ry.	
Rice.....	Gila.....	2,540	30	45.2	- 3.1	69	31	22	13	43	1.47	+ 0.53	0.63	T.	7	31	3	7	Arthur Pritchard.	
Roosevelt.....	do.....	2,175	9	46.3		62	6†	29	5†	33	1.40		0.52	0.0	7	14	4	13	w.	U. S. Reclamation Service.
Sacaton.....	Pinal.....	1,280	6	50.2		76	7	23	2	42	0.81		0.54	0.0	3	16	7	8	w.	E. W. Hudson.
St. Johns.....	Apache.....	5,650	9	28.6		52	18	4	28	34	1.25		0.30	17.0	7	15	0	16	sw.	Alexander Shreeve.
St. Michaels.....	do.....	6,950	26	24.2	- 2.1	48	14	13	22	40	1.74	+ 0.63	0.40	18.0	9	14	12	5	nw.	Rev. Anselm Weber, O. F. M.
Salome.....	Yuma.....	1,875	6	48.3		73	12	28	6	42	0.42		0.39	0.0	3	20	6	5	nw.	August Nord.
San Simon.....	Cochise.....	3,069	27	51.0	- 4.0	80	16	23	18†	46†	1.10	+ 0.54	0.90	0.0	2	24	4	3	Agent Southern Pacific Ry.	
Seligman.....	Yavapai.....	5,219	8	36.6		60	10†	17	24†	41	0.13		0.10	1.1	3	15	10	6	ne.	Librarian A. T. & S. F. Ry.
Sentinel.....	Maricopa.....	685	15	51.2	- 2.4	70	10†	32	29	31	T.	- 0.32	T.	0.0	0	13	12	1	Agent Southern Pacific Ry.	
Silverbell.....	Pima.....	2,664	8	52.0		69	13	35	31	22	1.53		0.59	0.0	6	20	4	7	Imperial Copper Co.	
Snowflake.....	Navajo.....	5,644	6	33.4		53	15	10	22	35	0.75		0.30	4.0	9	9	1	21	n.	William J. Flake.
Springerville.....	Apache.....	6,862	3	28.1		60	14	9	28	48	0.76		0.30	7.8	5	22	6	3	sw.	U. S. Forest Service.
Supai.....	Cocconino.....	3,200	7																Laura B. Symons.	
Tempe.....	Maricopa.....	1,165	9	49.6		71	10†	29	5	37	0.41		0.15	0.0	5	13	11	7	nw.	F. H. Simmons.
Thatcher.....	Graham.....	2,800	10	44.2	- 3.9	67	12	23	12†	44	1.25	+ 0.21	0.50	0.0	4	12	14	5	n.	J. H. Larson.
Thomas.....	Cocconino.....	5,200	1								1.81		0.39	18.4	11	13	6	12	n.	L. H. Thomas.
Tombstone.....	Cochise.....	4,550	18	44.2	- 0.2	65	12†	27	21	32	0.81	+ 0.06	0.49	0.0	3	24	6	1	n.	F. N. Wolcott.
Truxton.....	Mohave.....	3,997	3	40.5		67	7	21	21†	36	0.12		0.10	1.0	2	24	2	3	n.	Truxton Canyon Ind. School.
Tuba.....	Cocconino.....	4,500	13	32.2	+ 0.8	51	6	15	22†	28	0.42	- 0.23	0.12	0.9	11	14	13	4	n.	Ira E. Bell.
Tucson.....	Pima.....	2,390	33	48.8	- 2.5	74	13	28	5†	35	0.89	0.00	0.27	0.0	6	15	10	6	e.	University of Arizona.
Tucson (1).....	do.....	2,380	5	48.8		74	13	25	6	45	0.81		0.33	0.0	6	17	12	2	nw.	Rev. James F. Record.
Tucson (2).....	do.....	2,526	4	48.2		72	13†	27	6	41	1.35		0.44	0.0	7	20	5	6	w.	U. S. Coast & Geodetic Sur.
Vall.....	do.....	3,421	14								1.17	+ 0.64	1.17	0.0	1	22	7	2	Agent Southern Pacific Ry.	
Walnut Grove.....	Yavapai.....	3,649	20								0.91	- 0.68	0.38	0.0	8				J. O. Carter.	
Wickenburg.....	Maricopa.....	2,072	15	45.6	- 1.0	70	11	25	5†	39	0.25	- 1.23	0.10	0.0	4	21	0	10	Agent S. F. P. & P. Ry.	
Willcox.....	Cochise.....	4,164	32	40.2	- 2.7	65	15	20	13	38	1.29	+ 0.60	0.90	0.2	4	15	5	11	s.	Agent Southern Pacific Ry.
Williams.....	Cocconino.....	6,750	13	31.2	- 2.9	54	10†	3	2	37	1.90	+ 0.44	1.47	6.9	3	16	10	5	sw.	E. J. Nordyke.
Yuma.....	Yuma.....	141	33	53.7	- 2.0	74	7	29	5	38	0.00	- 0.45	0.00	0.0	0	26	3	2	n.	U. S. Weather Bureau.
Yumas (1).....	do.....	150	6	51.6		77	7†	23	5	48	T.		T.	0.0	0	23	6	2	n.	C. J. Wood.
Nevada.																				
Callente.....	Lincoln.....	4,407	3																Salt Lake Route.	
Las Vegas.....	Clark.....	2,033	11	44.4	+ 6.1	67	15	25	19†	37	0.07	- 0.17	0.07	0	1	18	4	9	s.	C. P. Squires.
Logan.....	do.....	1,355	6	43.6		69	8	19	21	43	0.19		0.18	0	2	20	6	5	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 3.—Daily precipitation for December, 1913. District No. 9—Continued.

Stations.	Waterhed.	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.																																				
Strawberry Tunnel.	Green	.15																		.35				.40			.20						.45	1.55		
Teasdale.	Colorado																																	.08	0.59	
Thompsons.	Green	T.																		T.	.08	.18			T.	.15	.20							.08	1.60	
Tropic.	Colorado	.50	.10	T.	T.															T.	.50															
Troutcreek Ranger.	Green																																			
Vernal.	do																																			
Victor.	do																			.30	.33							.27	.25					1.05		
White Rocks.	do	T.																		.05	.10	.30	.30	.30	T.									1.30		
Woodside.	do																																			
New Mexico.																																				
Alma.	Gila	T.			.15											.18	T.		T.			T.	.05		.02									.28	0.40	
Aragon.	do	.08			.40																		.35	.36											.28	1.47
Aztec.	San Juan	.17		T.	.21												.08	T.	T.	.18					.30		*	.80	T.			.08	T.	1.27		
Bergers Ranch.	Little Colo.																																			
Blackrock.	do																																			
Bloomfield.	San Juan	.07	T.	.08	.35																															1.03
Cambray.	Mimbres																.40	.50		T.	T.	.10														0.90
Cliff.	Gila	T.			.16	.41											.58	.40																		1.95
Columbus.	Mimbres																.85	.30																		1.15
Crystal.	San Juan																																			
Daming.	Mimbres																.98																			0.98
Dulce.	San Juan	.26		*	.55												.07	.14	.14	.35				.16			.14					.05			2.11	
Farmington.	do																																			
Fort Bayard.	Mimbres			*	.13	.05											*	.28					*	.69											1.15	
Fruitland.	San Juan	T.		*	.50	.06												.24	T.																1.20	
Gage.	Mimbres																1.10	.49	.05	T.			*	.85		.08									2.05	
Gila Plant'g Station.	do			*	.25												.20	.38	T.				*	.50	.15	.15									1.51	
G. O. S. Ranch.	Gila			.16	.13	.25											.20	.38	T.					.50	.15	.15									1.67	
Hachita.	do	.02																.41	.32																0.83	
Haynes.	San Juan																																			
Hermans.	Mimbres																.45	.78																		1.23
Lordsburg.	Gila			.10														.27						.05											0.42	
Luna.	do																																			
Mimbres.	Mimbres																	.80																		1.60
Pinos Altos (near).	Gila	T.		.21	.30													.40						1.00		.25									2.15	
Pratt.	do																.60	.30																	0.90	
Putnam.	San Juan																																			
Redrock.	Gila			.28														.15	.18																1.01	
Rodeo.	do																	.74	.21																0.95	
Silver City.	Mimbres				.32													.33	.11				*	.92		.05									1.73	
Arizona.																																				
Allaires Ranch .	Desert		.22														.50	.12					.08		T.										0.92	
Alpine.	Gila																																			
Ashfork.	Verde	T.	T.	T.														.53	.12					T.											1.05	
Aztec.	Gila																																		0.00	
Benson.	San Pedro																																		0.00	
Bernardino.	Sonora			.14														.55	.25					.16											1.10	
Bisbee.	San Pedro	T.	T.	T.	.05													.38	.06					.05											0.54	
Blue.	Gila	T.	.13			T.	T.																T.	T.	.45	T.									1.15	
Bonita.	do																																		1.30	
Bowie.	do				.06																														0.62	
Buckeye .	do																																		0.14	
Canille.	San Pedro	T.	.12	T.	.15	T.																													0.92	
Carrs Ranch.	Salt	.40	.20	.04	.50													.91	.03						.30	.10									2.58	
Casa Grande .	Gila								.07																.64										0.71	
Casa Grande Ruin.	do	T.	T.		.11																														0.16	
Cavecreek (near).	Salt	.01																																	0.08	
Chandler.	do	T.																																	0.59	
Chin Lee.	L. Colorado	.12	.05	T.	.15																														0.45	
Chlarsons Mill.	Gila	.20	.07	.11	.47																															

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

Stations.	Waterhed.	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.																																				
Mocasin	Colorado		.11																																0.26	
Mohawk	Gila																				T.	.02												0.02		
Naco	San Pedro				T.											.18						T.												0.18		
Natural Bridge	Verde	.38	.18		.25											.25	.20					T.												1.69		
Nogales	Santa Cruz	T.	.05	T.											.01	.07	.01					.12												0.26		
Nufioso	L. Colorado	.06	.07	.22	.01											.01	.23	.50				.05	.45					.02	.04	.12		T.	1.78			
Oracle	San Pedro			.06	.40											.35	.06					.90												1.76		
Osborn	do															.12	.65					.12												0.77		
Paradise	Desert				.18											.90	.47					.24												1.79		
Parker	Colorado																								T.									T.		
Payson	Verde	.43		T.	.30											.10	.15	.30							.25	T.	T.							1.53		
Pearce (near)	Desert			T.	.06											.61	.24						.14											1.05		
Phoenix	Salt	.02	T.													.05	.01					.07	.11		.01									0.27		
Phoenix (1)	do															.27	T.	T.				.23												0.50		
Phoenix (2)	do															.03							.17		.02										0.22	
Phoenix (3)	do															.25																			0.25	
Pinal Ranch	Gila	.10	.17	.07												.44	.16					.69												1.63		
Pinedale	Little Colo	.22	.21	.21												.15	.05	.01					.04									.13		1.02		
Pinto	do	.05	.03	.05	.10											.05	.05	.10	T.			.40	.30				T.	.15	T.				1.28			
Prescott	Verde	.08	.11	.08	T.											T.	.13	.02	.01			T.					T.	T.						0.43		
Prescott Dry Farm	do	.09	.15	.05	T.											.16	.07					T.	T.		T.		T.	T.						0.52		
Quartzsite	Colorado																																		0.00	
Redrock	Santa Cruz			.35	.37											.26		.59																	1.57	
Rice	Gila	.03	.08	.05	.17											.48		.05					.63	T.										1.47		
Roosevelt	Salt	.11	.10	.02	.10											.50							.52		.05									1.40		
Sacaton	Gila	T.														.08	.19						.54											0.81		
St. Johns	Little Colo		.12		.08											.26	.15	.20					.15		.25		.30							1.25		
St. Michaels	do	.08	.20	.16	T.											.26	T.		T.	.20	.40	.14			.20	T.	T.					T.	T.	1.74		
Salome	Desert	T.	.02	.01												.39																			0.42	
San Simon	Gila															.20	.90																		1.10	
Seligman	Verde	.10		T.												.02						T.				.01									0.13	
Sentinel	Gila																					T.													T.	
Silverbell	Santa Cruz		T.	.01	.38											.08	.48						.59	.01										1.53		
Snowflake	Little Colo	.30	.20													.05	.03	.02					.04	.03			.02	.06							0.75	
Springerville	do	T.	.01	.08																			.16		.21			.30							0.76	
Supal	Colorado																																			
Tempe	Salt	.15			T.											T.	.05	.05					.14	T.	.02										0.41	
Thatcher	Gila				.44											.50							.30			.01									1.25	
Thomas	Verde	.36	.05	.05	.30											.32	.07					.13	.06	.04	.39		.04								1.81	
Tombstone	San Pedro															.49	.24					.08													0.81	
Truxton	Desert	.10	.02																																0.12	
Tuba	Little Colo	.01	.01	.10	.12											.05		.02				.02	.05		.01		T.	.02	.01					0.42		
Tucson	Santa Cruz		.03	.12	.15											.23	.09						.27												0.89	
Tucson (1)	do		.09	.01	.10											.26	.02							.33											0.81	
Tucson (2)	do		.01	.24	.06	.22										T.	.38	.02					.44		T.										1.35	
Vail	do															1.17																			1.17	
Walnut Grove	Hasayampa	.05	*	.20	.10											*	.38								*	.18									0.91	
Wickenburg	do	.10														.07	.08																		0.25	
Willcox	Desert				.02											.90	.12							.25											1.29	
Williams	Colorado	L.47		T.	T.											.10	T.					T.			.10		.23							1.90		
Yuma	do																																		0.00	
Yuma (1)	do																																		T.	
Nevada.																																				
Caliente	Colorado																																		0.07	
Las Vegas	do																																			0.07
Logan	do	.01																																		0.19

* 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 December, 1913. District No. 9.

Table with columns for Wyoming, Colorado, Utah, and New Mexico. Each state has multiple stations with Max and Min temperature columns. Rows represent days from 1 to 31, plus monthly means.

Table for Arizona and Logan, Nev. Columns include Douglas, Flagstaff, Fort Apache, Grand Canyon, Parker, Phoenix, Prescott, St. Michaels, Tucson, Yuma, and Logan, Nev. Rows represent days from 1 to 31, plus monthly means.

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