

## CLIMATOLOGICAL DATA FOR MARCH, 1913.

## DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, Section Director.

## GENERAL SUMMARY.

The cold weather of the past winter continued throughout nearly the entire first month of spring, and the precipitation for the district as a whole was below normal. In the Utah area the temperature remained persistently below the normal until near the close of the month, when it became suddenly and decidedly warmer, giving rise to floods from the melting snow at many places both in the Utah and Nevada areas. The effect of the cold weather was to delay farming operations, and plowing was not general, due to the moist condition of the ground. Grass had but little growth, and the ranges were deficient in feed at the end of the month. Fruit buds had not begun to swell, and the dormant condition of winter was evident till near the end of the month, when warmer weather set in all over the district and robins were frequently seen and the croaking of frogs became general. In the Utah area some fruit was winter-killed, but in general it was thought that the continued cold weather during the winter and March was beneficial to fruit, as it kept the buds back, thus minimizing the probability of losses that might occur during April and early May. In Nevada there were some reports of losses in stone fruits, but the pomaceous fruits were unharmed.

## TEMPERATURE.

For the district, as a whole, the temperature for the month of March averaged 35.0°, which is 2.9° below normal. The local mean temperatures ranged from 24.0° at Border, Wyo., to 42.8° at Lahontan, Nev. However, at the majority of stations the mean temperatures ranged between 30° and 38°. The lowest mean temperatures occurred in the Idaho and Wyoming areas and the highest in the western portions of the Utah and Nevada areas. The greatest deficiencies occurred in the northern portion of the Utah area and exceeded 4° in many instances. The greatest local deficiency was 8.5° at Corinne, Utah, where the monthly mean was 31.8°. The monthly mean temperatures in the Oregon area and for a few points in the Nevada area were in excess of the normal, but in all cases the excesses were small.

There was only one notable warm spell, and then only for a few days at the close of the month, when most of the highest temperatures occurred. As the month was quite uniformly cold, with the exception of the warm period noted above, the minimum temperatures for the month at the several stations occurred on various dates, although the greater number were recorded on the 15th and 26th.

The maximum temperatures in the respective States or parts of States were: 60° at Cokeville, Wyo., on the 22d; 69° at Weston, Idaho, on the 31st; 80° at Deseret, Fillmore, Ibex, Milford, and Oak City, Utah, on the 31st; 64° at Burns and Silver Lake, Oreg., on the 9th, and at Paisley, Oreg., on the 30th and 31st; 60° at Cathedral Park, Cal., on the 30th, and at Tahoe, Cal., on the 31st; and 79° at Fallon, Nev., on the 31st, and

at Lahontan, Nev., on the 30th. The lowest temperatures reported were: -11° at Cokeville, Wyo., on the 26th; -6° at Weston, Idaho, on the 26th; -18° at Thistle, Utah, on the 15th; -3° at Cliff, Oreg., on the 14th; 5° at Tahoe, Cal., on the 5th and other dates; and -15° at Geysers, Nev., on the 1st.

## PRECIPITATION.

The precipitation for the district as a whole averaged 0.94 inch, or 0.56 inch below normal. There were many places in the Utah area where abnormally large amounts were recorded, but the rainfall in the Utah area as a whole was below normal. Locally large amounts fell at a few places which, combined with the rapid melting of the snow, brought about by the warm weather at the close of the month, caused some floods. Of the Nevada area the section director writes that the precipitation was about 0.84 inch below normal, and that the only times smaller amounts have been reported since 1890 were in 1908 and 1910.

The greatest local amount for the month was 3.67 inches at Farmington, Utah, while almost equally large amounts were recorded at Richmond, Utah, and at Markleeville, Cal. Traces were reported at two stations.

## WEATHER.

The average number of rainy days was 6, clear days 12, partly cloudy days 9, and cloudy days 10.

## SNOWFALL.

In the Great Salt Lake watershed exceptionally heavy snows fell during March, and in the mountains the depth ranged from 8 to 144 inches. In almost all localities there was more snow than last year at the same time, and also more than the average. Except in the extreme northern portion of this watershed there were prospects for more than the average water supply.

In the Sevier Lake watershed about an average amount of snow fell, and the depth ranged from 6 to 72 inches in the mountains at the end of the month. There was more snow than last year and more than the average. More than half the correspondents report that the water supply will be greater than the average.

The precipitation in the Truckee Basin for March was about 42 per cent of the average amount for the past 4 years; for the Carson Basin a little more than the 4-year average; for the Walker Basin about the 4-year average; and for 6 stations in the Humboldt Basin 43 per cent of the normal.

West of Lake Tahoe, at the 6,000-foot level, March 31, the snow was about 2 feet deep; at an elevation of 6,500, about 4 feet; at 7,000 feet, about 4 to 5 feet; at 7,500, from 5 feet to 8 feet, and in places drifts 15 feet to 20 feet.

It has been found by sampling the deep snow that it will average about 40 per cent water, and drifts 14 feet deep go as high as 45 per cent.

TABLE 1.—Climatological data for March, 1913. District No. 10, Great Basin.

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 cloudy days.		
<b>Wyoming.</b>																						
Border.....	Lincoln	6,085	11	24.0	- 1.3	56	31	- 10	15†	38	1.63	+ 0.26	0.57	21.9	9	10	7	14	w.	S. W. Condron.		
Cokeville.....	do	6,204	3	27.4	.....	60	22	- 11	26	54	0.81	.....	0.30	10.0	7	15	6	10	w.	E. J. Tuckett.		
Evanston.....	Uinta	6,860	17	24.9	- 3.9	57	31	- 10	14	35	0.65	- 0.88	0.17	5.5	6	13	10	8	w.	Frank Tucker.		
<b>Idaho.</b>																						
Geneva.....	Bear Lake	6,171	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.92	14.0	5	12	13	6	.....	F. W. Boehme.		
Grace.....	Bannock	5,400	6	30.8	.....	67	31	- 5	26	37	0.95	.....	0.20	10.0	11	9	2	20	se.	E. W. Joy.		
Paris.....	Bear Lake	5,946	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Norton.		
Weston.....	Franklin	4,460	14	33.1	- 3.7	69	31	- 6	26	33	1.46	- 0.38	0.35	16.0	11	7	5	19	s.	Wm. T. Chatterton.		
<b>Utah.</b>																						
Alpine.....	Utah	4,900	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.10	- 1.11	0.30	11.0	5	8	6	17	.....	T. F. Carlisle.
Beaver.....	Beaver	6,000	9	30.6	.....	73	31	- 1	15†	46	0.41	.....	0.20	.....	4	17	8	6	n.	M. J. Shelton.		
Black Rock.....	Millard	4,872	9	35.6	.....	78	31	1	26	53	0.36	.....	0.14	4.0	3	16	5	10	.....	W. D. Livingston.		
Buttville.....	Sevier	6,800	2	29.3	.....	67	30	3	1†	40	0.67	.....	0.34	.....	5	.....	.....	.....	.....	F. R. Curtis.		
Castle Rock.....	Summit	6,244	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	18.5	15	6	7	18	sw.	David Moore.		
Cedar City.....	Iron	5,750	8	37.6	.....	73	30	3	26	33	0.84	.....	0.36	5.0	5	14	2	15	sw.	Parley Dalley.		
Center.....	Tooele	4,250	2	33.8	.....	72	31	- 2	15	36	1.30	.....	0.30	13.0	8	8	16	7	n.	L. C. Peterson.		
Clarkston.....	Cache	5,930	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.35	.....	3	8	10	13	.....	W. J. Griffiths.		
Corinne.....	Boxelder	4,240	43	31.8	- 3.5	57	11	9	26	35	0.70	- 0.70	0.20	5.0	6	5	6	20	nw.	A. C. Murphy.		
Deseret.....	Millard	4,541	18	36.2	- 4.6	80	31	6	26	52	0.19	- 0.78	0.07	4.0	5	10	6	15	s.	S. W. Weston.		
Elberta.....	Utah	4,650	11	35.1	- 6.4	74	31	9	26	1†	36	0.65	- 0.91	0.38	5.5	9	14	7	10	s.	D. C. Walkey.	
Enterprise.....	Washington	5,750	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Day.		
Erekson.....	Tooele	4,850	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.95	.....	.....	.....	.....	.....	.....	N. W. Erekson.		
Fairfield.....	Utah	4,806	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.40	.....	.....	.....	.....	.....	.....	Ether Carson.		
Farmington.....	Davis	4,267	12	37.8	- 3.1	66	31	10	26	30	3.67	+ 1.28	0.70	28.2	10	15	8	8	n.	Charles Boylin.		
Fillmore.....	Millard	5,100	21	39.5	- 2.1	80	31	8	26	38	1.11	- 0.88	0.35	.....	9	9	.....	.....	.....	J. J. Starley.		
Garland.....	Boxelder	4,248	1	36.4	.....	69	31	10	24†	42	1.12	.....	0.48	8.2	9	9	.....	.....	.....	Heber C. Cutler.		
Garrison.....	Millard	4,850	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. M. Smith.		
Government Creek.....	Tooele	5,277	12	34.5	- 4.2	72	31	- 1	26	38	1.51	- 0.70	0.33	10.0	8	17	4	10	s.	Walter James.		
Granger.....	Salt Lake	4,560	1	34.2*	.....	72	31	5	15	25	2.30	.....	0.37	21.5	7	7	.....	.....	.....	Geo. E. Greene.		
Grantsville.....	Tooele	4,220	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.37	5.4	7	4	22	5	nw.	Monto Barrus.		
Grouse Creek.....	Boxelder	5,148	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.18	4.1	2	6	2	23	n.	Phillip Paskett.		
Heber.....	Wasatch	5,593	20	30.0	- 4.7	60	31	- 8	15	42	1.09	- 1.20	0.20	14.0	7	12	13	6	s.	John Crook.		
Henefer.....	Summit	5,301	13	32.4	- 3.5	71	31	- 7	15	43	2.00	- 0.43	0.60	19.5	11	9	7	15	w.	William Brewer.		
Hooper.....	Weber	4,436	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Jones, jr.		
Ibapah (near).....	Tooele	7,500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Lawton.		
Ibex.....	Millard	5,250	2	40.6	.....	80	31	8	26	40	0.19	.....	0.08	.....	3	7	6	18	s.	John F. Watson.		
Iosepa.....	Tooele	4,356	2	38.8	.....	76	31	15	20	35	0.87	.....	0.50	.....	3	3	12	16	s.	Geo. K. Hubbell.		
Joy.....	Juab	5,000	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. M. Laird.		
Junction.....	Piute	6,000	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.84	.....	.....	.....	.....	.....	.....	Joseph Jensen.		
Kanosh.....	Millard	5,250	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.47	.....	5	5	.....	.....	.....	Geo. Crane.		
Kelton.....	Boxelder	4,230	33	33.3	- 6.7	65	30†	3	16	50	0.30	- 0.21	0.30	3.0	1	12	19	0	se.	F. W. Klock.		
Lemay.....	do	4,221	2	40.6	.....	67	31	20	20	32	0.25	.....	0.25	0	1	19	3	9	.....	Agent S. P. Co.		
Levan.....	Juab	5,010	23	34.0	- 3.1	72	31	6	15†	37	1.06	- 1.03	0.24	10.6	8	13	6	12	sw.	William Brown.		
Logan.....	Cache	4,507	22	33.8	- 1.9	67	31	9	15	27	3.09	+ 1.13	0.77	28.0	14	.....	.....	.....	.....	Utah Exp. Station.		
Low.....	Tooele	4,602	2	40.2	.....	75	31	14	26	35	0.45	.....	0.40	4.5	2	12	14	5	.....	Agent W. P. Ry. Co.		
Lucin.....	Boxelder	4,504	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Harrington.		
Lund.....	Iron	5,086	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Job F. Hall.		
Mantle.....	Sanpete	5,575	18	36.0	- 1.8	77	31	7	27	44	0.84	- 0.71	0.33	.....	7	7	6	18	.....	J. M. Anderson.		
Maple Creek.....	Utah	4,890	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.42	.....	.....	.....	.....	.....	.....	Lewis W. Gillilan.		
Marion.....	Summit	6,400	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.63	27.3	9	10	8	13	.....	Jas. Woolstenhulme.		
Marysville.....	Piute	6,180	13	34.0	- 4.2	75	31	- 2	1	48	0.63	- 0.71	0.15	12.3	10	7	8	16	n.	John W. Henry.		
Meadowville.....	Rich	6,200	12	27.9	- 1.8	61	30	- 7	26	33	0.80	- 1.04	0.60	25.0	6	13	6	12	.....	J. S. Moffat.		
Midlake.....	Boxelder	4,235	2	37.4	.....	60	31	21	20†	15	0.90	.....	0.30	8.0	5	15	8	8	e. ne.	Agent S. P. Co.		
Midvale.....	Salt Lake	4,365	1	37.8	.....	76	31	6	14	31	2.01	.....	0.60	.....	10	10	16	5	s.	M. J. Joy.		
Millford.....	Beaver	4,962	5	38.0	.....	80	31	10	1	55	0.35	.....	0.15	3.5	3	22	0	9	sw.	Agent Salt Lake Route.		
Mills.....	Juab	4,911	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.36	.....	.....	.....	.....	.....	.....	Geo. McCune.		
Millville.....	Cache	4,848	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.24	+ 0.18	0.67	13	5	17	9	s.	Fred Yeates.	
Minersville.....	Beaver	5,070	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	- 1.23	0.14	3.0	7	11	13	7	sw.	Geo. Roberts, sr.	
Modena.....	Iron	5,479	12	35.3	- 3.8	72	31	8	26	39	0.15	- 1.15	0.10	2.0	3	17	10	4	w.	U. S. Weather Bureau.		
Morgan.....	Morgan	5,068	8	33.4	.....	70	31	- 3	15	41	1.85	.....	0.55	.....	7	.....	.....	.....	.....	E. O. Kingston.		
Moroni.....	Sanpete	5,519	5	33.6	.....	70	31	2	15	34	1.48	.....	0.24	15.0	9	13	5	13	sw.	B. F. Ellason.		
Motida.....	Utah	4,510	1	34.2	.....	71	30	5	1	39	1.34	.....	0.60	15.0	5	19	0	12	.....	L. B. Curtis.		
Nephi [near].....	Juab	5,119	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. Boswell.		
Newcastle.....	Iron	5,150	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.31	.....	.....	.....	.....	.....	.....	T. W. Jones.		
Oak City.....	Millard	4,900	6	38.4	.....	80	31	7	28	40	0.79	.....	0.35	8.0	5	11	9	11	.....	Peter Nielson.		
Ogden.....	Weber	4,310	42	35.0	- 6.5	72	31	5	26	32	2.69	+ 0.86	0.42	17.0	10	12	3	16	e.	A. Van DeGraff.		
Panguitch.....	Garfield	6,560	1	32.8	.....	71	31	- 2	14	51	0.21	.....	0.18	3.5	2	28	0	3	s.	Harry L. Stremble.		
Park City.....	Summit	7,800	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Gertrude Evans.		
Park Valley.....	Boxelder																					

TABLE 1.—Climatological data for March, 1913. District No. 10—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 cloudy days.		
<i>Utah—Continued.</i>																				
Utah Lake Pumping Station.	Utah	4,500	5	32.2		53	31	- 4	15	35	2.22		0.73	17.5	8	11	4	16		W. A. Knight.
Vernon.	Tooele	5,500	2									1.16	0.29	9.8	8	14	13	4	sw.	Glynn Bennion.
Wendover.	do.	4,237	1	41.1		79	31	17	25	36	T.		T.	T.	0	9	21	4	nw.	J. S. Cooper.
Whiskey Creek.	Millard	4,850	2									1.70	0.80	13.0	4					George Stevens.
Woodruff.	Rich	6,500	10																	A. L. Eastman.
<i>Oregon.</i>																				
Burns.	Harney	4,157	22	35.2	+ 0.7	64	9	8	24†	39	0.86	- 0.21	0.15	4.6	10	8	9	14	sw.	J. C. Welcome, jr.
Cliff.	Lake	4,300	6	34.0		63	9	- 3	14	43	0.26		0.06	0.5	7	6	10	15	sw.	John C. Green.
Paisley.	do.	4,500	10	37.8		64	30†	11	20	36	0.07		0.05	2.0	2	13	6	12	sw.	C. M. Sain.
Silver Lake.	do.	4,700	16	35.8	+ 0.1	64	9	10	24†	38	0.10	- 1.10	0.10	T.	1	9	11	11	sw.	G. W. Marvin.
<i>California.</i>																				
Cathedral Park.	Eldorado	6,400	0	33.0		60	30	6	25	31	2.71		0.71	51.0	9	15	4	12	s.	Carl Fluegge.
Tahoe.	Placer	6,240	2	30.0		60	31	5	25†	32	1.88		0.53	40.0	7	17	3	11	nw.	R. M. Watson.
Truckee.	Nevada	5,819	41	25.8	- 7.1	42	30	- 8	1	38	1.79	- 2.84	1.00	17.5	5	15	3	13		Southern Pacific Co.
<i>Nevada.</i>																				
Austin.	Lander	6,594	24																	F. O. Booe.
Battle Mountain.	do.	4,843	42	34.0	- 7.5	68	10	4	27	53	0.38	- 0.32	0.30	0.5	5	12	6	13	s.	Southern Pacific Co.
Beowawe.	Eureka	4,905	42	36.2	- 5.0	70	31	9	25	53	1.05	+ 0.40	0.36	8.5	5	10	9	12	sw.	Do.
Carlin.	Elko	5,232	42									- 0.82	0.10	0	1	17	5	9	n.	Do.
Carson Dam.	Churchill	4,032	6																	U. S. Reclamation Service.
Cherry Creek.	White Pine	6,450	5	34.2		70	31	1	26	37	0.45		0.12	7.9	8	11	10	10	w.	J. H. Leishman.
Clover Valley.	Elko	6,000	12	32.2	- 2.2	65	31	0	26	41	0.40	- 1.39	0.14	T.	5	18	5	8		I. F. Wiseman.
Columbia.	Esmeralda	5,750	6	38.8		75	31	12	1	40	0.48		0.25	6.0	5	18	12	1	nw.	A. Booth.
Dry Farm.	Elko	5,600	1	34.0		67	31	3	26	31	0.91		0.26	8.0	8					Walfrid Sohlman.
Elko.	do.	5,432	42	37.2	+ 0.8	67	31	7	26	47	0.33	- 0.83	0.17	8.2	7	10	17	4	w.	Western Pacific Co.
Eureka.	Eureka	6,500	15	33.8	- 2.5	70	31	- 6	26	48	0.75	- 1.56	0.45	13.2	5	12	5	14	s.	Clay Simms.
Fallon.	Churchill	3,965	19	40.8	- 0.5	79	31	10	26	46	0.26	- 0.28	0.21	T.	3	15	10	6	w.	U. S. Experiment Station.
Fernley.	Lyon	4,200	40	40.4	- 1.2	78	30†	11	24†	46	0.03	- 0.39	0.03	T.	1	17	11	3	w.	Mrs. G. A. Steele.
Gardnerville.	Douglas	4,830	22	40.5	- 1.4	76	31	13	26	44	0.21	- 1.33	0.10	1.0	3	26	2	3	w.	Forest Service.
Gerlach.	Washoe	3,931	0																	Western Pacific Co.
Geysers.	Lincoln	6,055	9	28.2		73	31	- 15	1	60	0.20		0.20	2.0	1	14	17	0	n.	Mrs. J. F. Wambolt.
Glenbrook.	Douglas	6,420	4	32.0		52	29	8	24	30	0.08		0.05	5.0	3	11	6	14	w.	C. C. Henningsen.
Golonada.	Humboldt	4,697	34	37.2	- 3.5	74	31	7	26	42	0.15	- 0.36	0.10	1.5	2	6	15	10	w.	Southern Pacific Co.
Halleck.	Elko	5,631	20	33.4	+ 1.0	76	31	5	26	47	0.42	- 0.61	0.15	10.9	4	10	16	5		Do.
Hawthorne.	Mineral	4,569	19																	G. B. Stannard.
Jean.	Clark	2,074	5																	Salt Lake Route.
Lahontan.	Churchill	4,200	1	42.8		79	30	16	25	39	0.03		0.03	0	1	18	11	2	w.	U. S. Reclamation Service.
Lewers Ranch.	Washoe	5,500	25	39.4	- 0.2	72	30	11	13†	43	0.60	- 3.61	0.30	6.0	3	0	13	12		Ross Lewers.
Lida.	Esmeralda	6,037	0	37.4		70	30	14	1†	34	0.29		0.10	6.0	5	21	6	4	nw.	L. F. Detwiler.
Lovelocks.	Humboldt	3,977	19	39.4	- 4.1	78	31	6	26	51	0.35	+ 0.04	0.20	0.8	2	12	8	11	sw.	A. P. Tilford.
McDermitt.	do.	4,700	23																	Scott Sterling.
McGill.	White Pine	6,338	22	31.7	- 1.2	72	31	- 2	1†	45	0.25	- 1.32	0.15	2.5	2	12	12	7	s.	R. E. Middagh.
Millett.	Nye	6,002	5	35.4		76	31	0	1	50	0.17		0.17	T.	1	22	5	4	w.	Fred J. Jones.
Mina.	Mineral	4,600	6	41.9		80	30	11	26	46	0.15		0.15	T.	1	19	0	12		Southern Pacific Co.
Oasis Ranch.	Esmeralda	5,106	0	39.4		77	31	15	1	43	0.09		0.05	6.0	2	23	4	4	nw.	A. S. Patterson.
Potts.	Nye	6,990	20	30.0	- 2.9	68	31	- 3	1	46	0.35	- 0.58	0.30	6.0	2	10	6	15	n.	Miss Mamie Potts.
Quinn River Ranch.	Humboldt	4,850	11	36.7	- 2.9	75	31	1	26	52	0.01	- 0.93	0.01	0	1	12	1	18	w.	F. M. Payne.
Rebel Creek.	do.	1	1	36.3		70	31	7	26	44	0.52		0.27	3.5	7	5	14	12	sw.	E. J. Hyatt.
Reno.	Washoe	4,532	42	40.6	- 0.4	73	31	16	26	42	0.05	- 1.17	0.05	0.8	1	15	11	5	w.	U. S. Weather Bureau.
Soda Lake.	Churchill	4,534	6																	U. S. Reclamation Service.
Tecoma.	Elko	4,812	35	34.2	- 2.6	72	31	0	26	58	0.13	- 0.30	0.08	12.5	4	5	19	7	w.	Southern Pacific Co.
Tonopah.	Nye	6,090	8	38.5		69	31	14	13	27	0.32		0.16	4.0	3	15	16	0	w.	U. S. Weather Bureau.
Wabuska.	Lyon	4,347	8																	J. G. Young.
Wells.	Elko	5,631	41	34.6	+ 0.4	70	30	- 3	25†	52	0.55	- 0.70	0.35	5.0	2	10	16	5	w.	Southern Pacific Co.
Winnemucca.	Humboldt	4,432	34	37.4	- 2.2	73	31	8	26	45	0.23	- 0.72	0.06	1.0	7	8	8	15	sw.	U. S. Weather Bureau.

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. 10, Great Basin.

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>Wyoming.</i>																																			
Border	Bear				T.	.19						.04	.11						T.	.02	.14		.57	.16	.46	.14			T.					1.83	
Cokeville	do.				T.	.04						T.	.04						T.	.05	.11		.36	.17	.17	.04			T.					0.81	
Evanston	Uinta				T.							T.	.17						T.	.09				.12			.05			T.					0.65
<i>Idaho.</i>																																			
Geneva	Bear				.38																						.35	.92			.45	.20		2.30	
Grace	do.				.10							.20	.15					.05	.03			.10		.10	.05	.10	.05							0.95	
Paris	do.											.12	.05	.05					.20	.12			.05	.35	.30	.06	.05							1.46	
Weston	do.					.11																													
<i>Utah.</i>																																			
Alpine	G. S. Lake												.20	.36					.30					.20										1.10	
Beaver	Sevier Lake					T.						.20								T.	.10		T.	.05	.06	T.		.10						0.41	
Black Rock	do.					.12														T.	.34	.10				.14								0.36	
Burrville	do.					.02						.10	.01						.20			.15	.20	.05	.05	.15	.10	.05	.03				.05		0.67
Castle Rock	G. S. Lake				.02							.10	.02	.20	.05					.03	.15	.20	.05	.05	.15	.10	.05	.03						1.18	
Cedar City	Desert					.36						.18								T.	.10			.10	.10	.10								0.84	
Center	do.					.20							.30							T.	.20	.10			.10	.10								1.30	
Clarkston	G. S. Lake											.30									.35											.25		0.90	
Corinne	do.				.10						.10									T.	.20	.10	.10	.10	.10	.10								0.70	
Deseret	Sevier Lake					.05							.02	.03	.01						.03	.03	.02	.02	.02	.07	.07							0.19	
Elberta	G. S. Lake					T.	.38					.02	.03	.01						.01	T.	.02		.03	.08	.07								0.65	
Erekson	Desert																																		
Enterprise	G. S. Lake																																		
Fairfield	do.					.40								.20										.13											0.95
Farmington	do.					.20							.30	.70	.20					.30	.20	.30	T.		.62	.65	.20	.10	.20					3.67	
Fillmore	Sevier Lake					.18						.07	.08	.02	T.				.06	.05	.35				.25	.07								1.11	
Frisco	Desert																																		
Garland	G. S. Lake												.48								.08	.04	.17	.20	.04	.03	.04							1.12	
Garrison	do.					T.						T.			T.					T.															T.
Government Creek	do.					.16						T.	.26							.10	.18	.18			.33	.23	.07	T.						1.51	
Granger	G. S. Lake												.40	.20							.40														2.30
Grantsville	do.					.37						.14								.01		.11		.11	.08	.01								0.83	
Grouse Creek	Desert				T.	.04															.03	.04	.06	.18	.03	T.								0.44	
Heber	G. S. Lake					.20						T.	.20	.10							.20	.10	.10	.10	.10	.10								1.00	
Henefer	do.					.01						T.	.60	.05						.05	.33	.49	.02	.01	.20	.19	.05							2.00	
Hooper	do.																																		
Ibex	Desert					.08						T.	T.	T.								.06													0.19
Iosepa	do.					.50						T.	T.	T.										.25	.12	.12	.05								0.87
Junction	Sevier Lake					T.						.42	.18	.20							.18													0.84	
Kanosh	do.						.30						.14									.47												0.84	
Kelton	G. S. Lake																																		0.30
Lemay	Desert					T.	.25						.02	.11	.03						*	.17	T.			.24	.04							1.06	
Levan	Sevier Lake					T.	.23						.02	.11	.03						*	.17	T.			.24	.04							1.06	
Logan	G. S. Lake					.18					.05	.40	.15		.03						.22	.22	.22	.77	.19	.17	.02							3.09	
Low	Desert																				.28	.22		.05	.40									0.45	
Lucin	do.																																		
Manti	Sevier Lake					.33						.03			T.						.14	.07	.08			.05								0.84	
Maple Creek	G. S. Lake					.41						.10	.29	.63						.30	.09	.42	.08	.10										2.42	
Marion	do.					.16						.20	.10	.08							.10	.13	T.	.22	.05	.03	T.							1.10	
Marysvale	Sevier Lake					.03	T.	.16																											0.80
Meadowville	G. S. Lake														.05							.04	.03	.60	.06	.02	T.							0.90	
Midlake	G. S. Lake																																		2.01
Midvale	do.				.01	.17						.60	.12								.17	.26		.10	.18	.12	.20							0.85	
Millford	Sevier Lake					.10						.15																							0.35
Mills	do.					.15																													0.36
Millville	G. S. Lake											.14	.02	.36	.11						.06	.16	.14	.07	.22	.67	.18	.09						2.24	
Minersville	Sevier Lake					.04							.02	.03							.11	.02			.05		.14	.01							0.59
Modena	Desert					T.																													0.15
Morgan	G. S. Lake					.07																													1.85
Moroni	Sevier Lake					.20																.33	.24	.14	.04	.20	.12	.20	.20						1.48
Mosida	G. S. Lake					.60																.10													1.34
Nephi	do.																																		
New Castle	Desert					.11																													0.31
Oak City	Sevier Lake					.11																			.16										0.79
Ogden	G. S. Lake					.40	.21					T.	.42	.27	.11						*	.38	.19		*	*	.90							2.69	
Panguitch	Sevier Lake											.18	.03																						0.21
Park City	G. S. Lake																																		
Park Valley	Desert																																		
Parowan	do.												.35																						1.35
Payson	G. S. Lake																																		

TABLE 2.—Daily precipitation for March, 1913. District No. 10—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>Oregon—Continued.</i>																																				
Burns.....	Southeast drainage.	.10	.04										T.				.02	.13					.16	.06	T.		T.			.13	.05	.02	.15	0.86		
Burns Mill.....	do.																																	0.27		
Christmas Lake.....	do.		.11											.04						.04	.01		.04		.01	.02	T.		T.	T.			0.26			
Cliff.....	do.		.04												.05										.01	.06	.02				.03			0.69		
Diamond.....	do.		.05										.30	T.	T.					T.	.14	.03		.17	T.								0.52			
Embody.....	do.	.02									T.	.08	.10						T.	.03	.02	.09	.02	.08	.04	T.	T.			.08	.01		0.17			
Fort Rock.....	do.				T.							T.	T.					T.	T.									T.	T.				0.07			
Paisley.....	do.														.02								.05		.04	.08	.06	.04	.15					1.04		
Seneca.....	do.		.03								.02			.06	.06				.20		.16										.06			0.10		
Silver Lake.....	do.																						.10		T.									0.20		
Valley Falls.....	do.											.08															.04							0.20		
<i>California.</i>																																				
Bijou.....	Truckee										.11						.10	.10	.17	.04	T.	.24	.27	T.	T.								0.93			
Boca.....	do.													T.				.40	.10	T.	.10	.10	.70	.10	.10	T.							1.50			
Bridgeport.....	East Walker										.09	.05					*	.09					.04	.09										0.36		
Cathedral Park.....	Truckee										.03							.14	.68	.25	.19	.34	.71	.18	.19									2.71		
Deer Park.....	do.																*	.52	T.	.23	.45	.84	.25	.19						.10				2.39		
Hobart Mills.....	do.										T.	T.	T.				*	.18	.04	.11	.19	.90	.03	.13										1.58		
Lundy.....	East Walker										T.	T.						1.20				.65	.13											1.85		
McKinney.....	Truckee																	.13	.31	.24	.18	.55	.68	.06	T.	T.			T.				2.15			
Markleeville.....	East Carson		T.	T.		.62				1.40	.45				T.			.53					.62		*									3.62		
Shields Ranch.....	East Walker										.25	.10					*					*	.11	*	.13									0.61		
Silver Creek.....	East Carson																																		0.61	
Tahoe.....	Truckee											T.	T.						.36	.20	T.	.32	.53	.20	.15	.12								1.88		
Talac.....	do.											T.	T.						.40	T.	.65	.50	T.	.35										2.10		
Truckee.....	do.																		.30	.10		.15		1.00	.20									1.75		
Woodfords.....	West Carson										.35										.14		T.			T.								0.58		
<i>Nevada.</i>																																				
Arthur.....	Humboldt							.05					.05								.10				.30	.25	.10	.15			T.			1.00		
Austin.....	Reese																																		0.38	
Battle Mountain.....	Humboldt										.01	.05										.30			.01	.01									1.95	
Beowawe.....	do.										.36	.12	T.									.32	T.	T.	.13	.12	T.							T.	0.10	
Carlin.....	do.																																			0.45
Carson Dam.....	Carson																																		0.40	
Cherry Creek.....	Humboldt					.06						.04	.02						.12	.09	.05	T.	.05	.02										0.48		
Clover Valley.....	do.												.07							.09			.14	.07	.03	T.								0.91		
Columbia.....	Desert										.04	.25										.13	.02	T.	.04	T.								0.33		
Dry Farm.....	Humboldt					T.						.26	.07		.05					.15	.07	.04		.17	.11									0.75		
Elko.....	do.					T.						.03	.01							.03	.02	.04	T.											0.26		
Eureka.....	do.					T.					.02	.03								.45	.10	T.		.15		T.								0.03		
Fallon.....	Carson										.21	.04	T.																					T.	0.21	
Fernley.....	Truckee										.03																								0.08	
Gardnerville.....	Carson										.06																								0.15	
Gerlach.....	Desert																																		0.42	
Geyser.....	Humboldt																																		0.20	
Glenbrook.....	Truckee										.01											.05		T.	T.	T.		.02							0.08	
Golconda.....	Humboldt																																		0.15	
Halleck.....	do.												T.	T.									.15		.15	.10	.02								0.42	
Hawthorne.....	Desert																																		1.02	
Hylton.....	Humboldt											*	.13																						0.03	
Jean.....	Desert																																		0.60	
Lahontan.....	Carson										.03	T.	T.	.10																					0.29	
Lewers Ranch.....	Truckee										.09	T.											.02		.02	.06		.10							0.35	
Lida.....	Desert																																		0.25	
Lovelocks.....	Humboldt																																		0.65	
McDermitt.....	do.																																		0.10	
McGill.....	do.		.01																																0.17	
Metropolis.....	do.					.16																													0.15	
Mill City.....	do.																																		0.28	
Millet.....	Reese																																		0.09	
Mina.....	Desert										.15																								0.35	
North Fork.....	Humboldt						.03								.03	.01																			0.01	
Oasis Ranch.....	Desert											.05																							0.52	
Potts.....	Reese											T.	T.	T.									.30	T.	T.		T.							0.05		
Quinn River Ranch.....	Humboldt																																		0.01	
Rebel Creek.....	do.		.01																																0.52	
Reno.....	Truckee											T.	T.	T.	T.								.27	.05	T.	.03	T.	.10	T.	.05	T.			0.05		
Rose Creek.....	Humboldt												.04	T.																					0.53	
Smith.....	W. Walker										.53																								0.57	
Soda Lake.....	Carson			</																																

TABLE 3.—Maximum and minimum temperatures for March, 1913. District No. 10, Great Basin.

Date.	Burns, Oreg.		Nevada.																											
			Cherry Creek.		Elko.		Eureka.		Fallon.		Lovelocks.		Millet.		Mina.		Oasis Ranch.		Quinn River Ranch.		Reno.		Tecoma.		Tonopah.		Winnemucca.			
			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.....	41	13	37	10	48	18	48	9	50	14	51	33	35	0	47	19	43	15	49	15	47	20	50	12	38	22	51	20		
2.....	50	26	46	25	54	27	50	27	58	33	52	30	36	10	57	23	46	30	56	33	52	11	45	30	46	34	46	34		
3.....	52	25	47	19	55	32	49	21	60	22	60	16	49	13	58	22	54	24	56	21	58	26	53	20	50	34	57	25		
4.....	53	26	50	22	57	24	55	24	65	23	65	19	57	18	62	26	58	27	63	22	63	30	57	10	56	38	62	22		
5.....	54	22	52	30	56	30	56	30	65	30	68	25	60	25	62	28	62	30	60	20	64	32	60	14	58	42	62	25		
6.....	54	22	47	28	58	25	45	25	63	27	63	32	52	26	60	28	60	28	59	20	59	29	59	15	52	35	55	24		
7.....	59	23	46	22	59	24	52	20	61	18	60	22	56	22	60	21	59	25	61	15	61	26	59	1	56	35	58	23		
8.....	60	25	50	24	56	22	55	22	62	21	65	15	61	11	65	19	61	20	66	14	65	27	60	6	55	37	63	18		
9.....	64	25	54	27	57	24	57	26	67	22	70	19	60	12	65	20	64	24	67	16	66	29	60	8	57	38	64	21		
10.....	56	29	55	28	61	26	58	29	66	21	67	22	61	20	66	20	63	29	64	19	59	34	60	8	57	39	61	25		
11.....	48	21	52	32	55	30	50	26	58	31	55	21	52	20	62	28	47	28	56	19	44	31	58	9	44	24	50	28		
12.....	37	18	45	28	47	29	48	26	53	27	56	16	51	20	58	27	39	25	52	18	54	25	60	10	43	23	50	18		
13.....	40	14	41	17	45	18	37	10	50	20	50	14	45	30	50	22	47	23	41	20	42	19	57	5	29	14	41	20		
14.....	48	13	28	17	35	19	31	15	43	20	48	16	38	19	41	24	41	20	41	10	43	22	58	3	32	15	41	15		
15.....	55	22	40	8	48	13	43	4	51	15	52	7	46	7	63	14	50	19	50	5	59	17	57	1	42	19	52	8		
16.....	54	32	51	22	50	23	55	20	62	19	61	10	60	10	67	28	58	21	59	10	64	26	59	2	54	30	60	16		
17.....	47	33	55	32	57	27	54	33	65	36	65	27	58	28	50	30	60	31	58	29	55	36	60	9	52	32	61	35		
18.....	48	27	49	28	61	34	47	23	55	32	58	28	53	30	45	32	56	34	49	29	47	35	60	25	44	25	48	31		
19.....	35	11	40	29	45	29	40	23	49	32	47	30	45	25	46	32	53	24	56	25	45	32	58	12	43	28	39	25		
20.....	35	15	31	17	36	13	37	10	45	24	44	18	50	15	43	28	54	22	36	8	42	22	59	2	41	21	35	14		
21.....	32	17	43	18	41	25	48	12	55	25	54	18	55	20	59	24	60	17	46	22	44	31	59	4	50	29	43	26		
22.....	44	12	44	25	44	30	42	18	49	23	45	26	54	20	54	27	51	23	46	26	39	29	60	15	41	25	41	27		
23.....	42	11	31	22	40	23	35	18	43	20	43	15	38	14	58	34	47	16	40	25	36	25	58	14	34	21	36	18		
24.....	36	8	32	4	33	8	33	4	41	19	48	16	37	13	52	33	47	17	36	14	38	23	58	2	32	18	35	11		
25.....	37	8	20	10	31	15	20	1	39	18	47	15	31	17	47	22	39	16	32	14	39	21	57	2	27	14	33	13		
26.....	40	20	38	1	39	7	42	-6	51	10	51	6	49	5	52	11	38	21	36	1	52	16	55	0	43	16	46	8		
27.....	48	32	49	21	58	18	51	17	63	17	62	14	59	11	70	24	50	22	56	13	57	25	57	1	54	30	55	17		
28.....	53	37	48	30	59	28	50	27	58	29	56	28	58	20	69	25	65	27	54	35	55	33	58	11	57	38	50	37		
29.....	53	38	57	35	61	34	60	30	72	32	71	30	73	30	70	24	70	27	63	40	64	35	60	25	63	37	60	40		
30.....	62	34	64	43	62	33	66	37	76	38	76	32	72	31	80	34	76	33	70	40	70	36	62	36	67	45	71	43		
31.....	62	29	70	36	67	20	70	33	79	34	78	33	76	27	79	33	77	35	75	28	73	38	72	14	69	47	73	36		
Mns.....	48.4	21.9	45.5	22.9	50.8	23.5	47.9	19.8	57.2	24.3	57.6	21.1	52.5	18.4	58.6	25.2	54.7	24.2	53.3	20.1	53.5	27.8	58.5	9.9	47.9	29.1	51.6	23.8		

Date.	Wyoming.								Utah.																			
	Border.		Evanston.		Weston, Idaho.		Black Rock.		Corinne.		Government Creek.		Marysvale.		Meadowville.		Modena.		Ogden.		Parowan.		Provo.		Salt Lake City.			
	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.....	29	14	27	12	36	13	47	14	32	16	43	15	42	-2	34	17	44	12	37	16	42	8	40	10	40	21	40	21
2.....	28	1	36	12	39	15	54	25	35	18	45	23	50	20	33	10	44	21	42	21	44	24	40	10	44	24	40	25
3.....	42	25	35	25	43	30	54	17	33	20	47	23	52	16	44	24	52	21	50	21	48	24	44	20	48	24	44	34
4.....	40	27	37	21	43	30	59	17	45	14	53	25	53	20	46	30	52	23	45	30	50	24	49	20	52	30	52	35
5.....	39	19	37	22	40	27	59	22	50	17	50	29	51	26	38	22	55	28	48	30	53	29	44	23	48	38	48	35
6.....	40	25	38	21	42	37	50	25	48	25	40	28	40	27	38	15	44	29	50	31	45	27	41	30	44	44	34	34
7.....	34	3	39	12	48	24	50	23	50	28	45	22	44	28	42	12	48	28	50	25	48	28	48	24	47	47	52	52
8.....	33	3	43	10	52	24	56	18	49	27	50	22	51	20	41	14	53	24	51	25	53	25	49	24	49	49	31	31
9.....	32	3	41	12	52	24	60	17	52	26	52	26	52	26	57	21	41	14	58	24	55	26	55	23	55	55	32	32
10.....	41	5	46	11	55	25	62	18	52	25	54	28	58	20	39	15	56	27	56	27	.....	.....	58	23	59	34	34	34
11.....	43	22	45	23	58	30	63	17	57	25	54	32	51	27	40	22	52	28	60	32	.....	.....	61	29	58	43	43	43
12.....	39	22	41	23	49	30	50	13	53	38	44	30	45	25	42	25	35	23	45	29	.....	.....	48	28	45	32	32	32
13.....	33	12	35	12	38	22	38	23	50	30	38	11	32	17	34	12	33	22	34	20	.....	.....	9	38	18	34	22	22
14.....	19	-8	18	-10	32	13	37	10	52	29	27	12	27	8	23	-3	33	17	36	12	30	21	31	17	30	22	22	22
15.....	28	-10	24	-4	36	11	42	5	41	16	36	6	37	7	29	-4	40	14	38	9	36	12	38	-2	37	15	15	15
16.....	34	0	35	11	44	20	59	8	40	16	46	23	50	10	42	18	53	16	45	18	49	16	49	9	46	23	23	23
17.....	48	16	47	17	55	35	60	26	42	21	55	34	55	24	54	29	54	27	56	32	57	27	63	23	60	36	36	36
18.....	44	30	42	20	50	33	55	32	45	20	52	31	51	31	48	32	47	26	47	34	48	28	60	32	55	32	32	32
19.....	36	25	32	23	39	28	47	18	39	19	40	26	42	10	37	24	43	22	42	34	44	26	43	31	43	30	30	30
20.....	31	5	27	6	30	13	39	12	47	12	38	15	36	20	34	4	42	12	34	10	40	24	34	20	30	19	19	19
21.....	24	2	30	0	32	16	57	15	43	10	45	18	49	20	25	3	49	27	42	12	52	23	50	23	46	22	22	22
22.....	36	4	38	15	44	28	56	34	39	13	50	25	51	37	39	18	50	36	35	25	54	32	58	26	42	32	32	32
23.....	30	20	36	19	40	25	45	21	35	12																		