

CLIMATOLOGICAL DATA FOR MARCH, 1912.

DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

March was a cold, cloudy, and stormy month, being unusually wet in many portions of the district, and especially in the Utah, Idaho, and Wyoming areas. The cold weather was beneficial to the fruit interests, retarding the blooming period, and thus rendering the fruit less susceptible to any late heavy frosts. On the other hand, farming operations were delayed, but the ground was generally in excellent condition. There were on the average 10 rainy days.

TEMPERATURE.

For the district as a whole the temperature averaged 36.5° , being 0.9° below normal. The monthly mean temperatures were the highest in the valleys of the Utah and the central and southern portions of the Nevada areas, while the lowest means occurred in the Wyoming area and the mountain stations in the Utah area.

The highest and lowest monthly means in the Wyoming area were 27.2° at Cokeville and 22.5° at Border; in Idaho, 31.8° at Grace and 25.0° at Paris; in Utah, 41.0° at Iosepa and Midlake and 26.0° at Park City; in Oregon, 41.7° at Burns and 32.1° at Cliff; in California, 33.6° at Truckee, and 29.0° at Tahoe; and in Nevada, 44.3° at Mina and 28.0° at Geysers.

There were a few stations in central Nevada and in the Oregon and California areas that reported monthly means above normal; but in the remainder of the district mean temperatures below the normal were the rule.

The greatest plus departure was 8.3° at Truckee, Cal., while the greatest minus departure was 5.8° at Clover Valley, Nev.

The temperatures were remarkably steady throughout the month, there being no marked periods of warm or cold weather. This was evidenced by the great number of dates on which the highest and lowest temperatures occurred.

The highest temperatures in the respective States or parts of States were: 60° on the 19th at Cokeville, Wyo.; 59° on the 25th at Weston, Idaho; 86° on the 25th at Beaver, Utah; 71° on the 31st at Burns, Oreg.; 56° on the 26th at Truckee, Cal.; and 78° on the 27th at Austin, Nev. For the most part the highest temperatures occurred during the last decade of the month.

The date on which the lowest temperatures occurred most frequently was the 3d, and the lowest reported for the several areas were: -15° on the 22d at Border and Cokeville, Wyo.; -10° on the 12th at Weston, Idaho; -7° on the 22d at Meadowville, Utah; 5° on the 2d at Cliff, Oreg.; 3° on the 7th at Tahoe, Cal.; and -1° on the 13th at Austin, Nev.

PRECIPITATION.

The precipitation for the district averaged 2.20 inches, or 0.47 inch above normal. The largest amounts fell in the Utah area and in the central portion of Nevada.

In Utah the rainfall was heavy everywhere, over mountains and plains, with the exception of the northwestern counties, where it was comparatively light, in some cases falling below the normal. At several stations the amounts were the heaviest recorded in the history of the stations for March with perhaps the exception of one previous March.

The distribution throughout the month was quite uniform, there being rain or snow practically every day somewhere, and quite generally over the State on many days, except that less fell from the 15th to the 25th than during any other period. The distribution as to rate of fall was such as to permit the soaking of most of the moisture into the soil. Viewing the month's precipitation as a whole, it came very timely, after a long dry winter season in many parts.

Regarding the precipitation in the Nevada area the section director of the State says:

The precipitation averaged 1.17 inches, which is 0.09 inch below normal and 0.04 inch less than the average for the same month last year. The greatest amounts fell in parts of Lander, Eureka, White Pine, and Elko Counties and the least were recorded in parts of Churchill and Lyon Counties. It was well distributed throughout the month, but the greatest amounts fell during the first 2 weeks. Large amounts of snow fell in the Lake Tahoe drainage basin and in the upper basins of the Carson and Walker Rivers, but the average in these basins was probably not more than three-fourths of the normal.

DEPTH OF SNOW IN THE MOUNTAINS OF UTAH AT THE CLOSE OF MARCH, 1912.

Comparatively large quantities of snow fell in the mountains of the State generally during the month, and while it is loose and soft as a rule, and in poor condition for late preservation, the irrigation water prospects for the summer were, nevertheless, considerably improved at the close of the month, compared with the prospects at the beginning. The ground in the hills as well as in the valleys has remained largely unfrozen, and is reported to be saturated with moisture generally throughout the State. In some sections more rain than snow fell, as a result of which the snow supply, while considerably depleted by the warmth, is much more solid and in better condition for keeping. There was a great deal less drifting noted than usual, the snow being deposited more or less uniformly on the slopes.

As a general rule the snow of the Great Salt Lake watershed is looser and softer than elsewhere throughout the State, though the quantity averages appreciably greater

than usual at this time of the year. The general prospects appear to be somewhat less encouraging in other watersheds, though the fact is noted that the snow is in slightly better condition for keeping in the Sevier Lake and the Green and Colorado Rivers watersheds.

REPORT OF SNOW MEASUREMENTS IN MAPLE CREEK WATERSHED, UTAH COUNTY, UTAH, MARCH 4 TO MARCH 14, 1912.

By A. H. THIESSEN, Section Director.

With the hope of supplying exact information to users of water, be they irrigators or water-power engineers, the local office of the United States Weather Bureau at Salt Lake City, Utah, conducted snow surveys in Maple Creek watershed in the springs of 1911 and the present year.

Rather than depend upon the measured snowfalls at a few isolated stations, the most of which can not, on account of the physical difficulties, be located anywhere except on the foothills, and not where the snow is stored for spring and summer use, and therefore as one must rely on estimates of the actual amount of snow and ice in the canyons of the higher mountains, a minute snow survey was made of the snow fields in Maple Creek watershed.

This snow survey was not made alone for the purpose of furnishing data to the users of Maple Creek water, but for the wider intention of developing a plan which can be applied to the measuring of the water equivalent in all mountains.

The scheme, in short, is to find in the early spring of the year by actual measurement the extent, depth, character, and water content of every snow field in a particular watershed together with data regarding the condition of the ground, and indeed all other points which in any way would tend to augment our knowledge regarding the future water supply are noted.

A general summary of the snow survey of Maple Creek Canyon made March 4-14, 1912, follows. It should be noted that there is about the same amount of snow, or more exactly the same water content, as there was last year; but the character of the snow varies a great deal from that of last year. This year the density is much less

and therefore not in a condition for late keeping. We therefore expect the early run-off to be heavy and that there will be a lack of water this coming summer.

Further, it is believed that the conclusions drawn from the snow conditions in this watershed may be applied to all watersheds in Utah, because the weather conditions have been much the same, and the precautions which are urged upon the users of Maple Creek water should be heeded by all users of water in Utah.

GENERAL SUMMARY.

The snow in Maple Creek watershed this spring is unusually light and loose in character, a condition unfavorable for preservation very late in summer, and it is reasonable to expect that much of the present supply will be carried away in the spring freshets. For this reason attention to the storage reservoirs and to main ditches, where necessary, would doubtless be profitable, so that as little loss as possible from the run-off may be had.

The general prospect for irrigation water based on this spring's snow survey is poorer than that of last year, and the consensus of opinion is that the supply of last year was below normal. However, it is reassuring to note that in all the explorations of the snow layer the soil underneath was found to be unfrozen and thoroughly soaked, being a very satisfactory condition for minimizing the loss of water in the surface run-off and for lengthening the period of stream flow from seepage water.

As a general rule the few east-and-west hollows carried more moisture this year than they did last year, while the north-and-south tributaries have considerably less water in them in the form of snow than was carried last year. In 1911 the average depth of snow over the watershed, comprising about 4,000 acres of snow, was 36 inches, with a water equivalent of 11.5 inches, or 32 per cent water; this year the average depth of about 4,500 acres of snow is 42.5 inches, but the water in it, as shown by the density weighing scales from 297 tests in representative places, is only 10.1 inches, the snow being only 24 per cent water. From these figures it is found that this year's water supply in the Maple Creek watershed is only 88 per cent of the supply last year.

TABLE 1.—Climatological data for March, 1912. 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.
<i>Wyoming.</i>																				
Border.....	Uinta.....	6,085	10	22.5	- 2.9	50	23	- 15	22	44	2.25	+ 0.70	0.61	29.0	10	12	11	8	w.	S. W. Condron.
Cokeville.....	do.....	6,204	2	27.2	.....	60	19	- 15	23	56	1.65	.....	0.30	22.0	10	19	9	3	w.	E. J. Tuckett.
Evanston.....	do.....	6,860	16	25.0	- 4.1	47	30	- 12	32	38	2.18	+ 0.60	0.58	19.2	11	8	12	11	sw.	Frank Tucker.
<i>Idaho.</i>																				
Geneva.....	Bear Lake.....	.....	4	.....	.....	.....	.....	.....	.....	.....	2.64	.....	0.70	28.2	15	10	5	16	.....	F. W. Boehme.
Grace.....	Bannock.....	5,400	5	31.8	.....	58	29†	- 7	4	36	3.20	.....	2.09	5.0	5	10	5	16	n.	Donald R. Shirk.
Paris.....	Bear Lake.....	5,946	17	25.0	- 2.9	43	7	- 10	12	38	0.29	- 1.00	0.12	10.5	4	11	17	3	nw.	John Norton.
Weston.....	Oneida.....	4,460	14	35.2	- 1.8	59	25	8	3	36	1.97	+ 0.10	0.41	6.5	13	10	4	17	n.	Wm. T. Chatterton.
<i>Utah.</i>																				
Alpine.....	Utah.....	4,900	15	.....	.....	.....	.....	.....	.....	.....	3.45	+ 1.34	0.96	5.0	12	7	4	20	.....	T. F. Carlisle.
Beaver.....	Beaver.....	6,000	9	38.8	.....	86	25	20	3†	56	2.30	.....	0.50	9.0	10	6	16	6	sw.	Jas. Connell.
Black Rock.....	Millard.....	4,872	12	38.8	.....	64	25	18	24	44	2.27	.....	0.84	9.0	7	5	7	19	.....	Agent Salt Lake Route.
Burrville.....	Sevier.....	.....	1	31.9	.....	53	18	12	17†	34	0.70	.....	0.50	7.0	2	.....	.....	.....	F. R. Curtis.	
Castle Rock.....	Summit.....	6,244	9	.....	.....	.....	.....	.....	.....	.....	2.89	.....	0.50	48.5	19	5	16	10	w.	David Moore.
Cedar City.....	Iron.....	5,750	7	38.4	.....	58	18†	20	21†	25	2.00	.....	0.60	10.0	13	7	8	16	sw.	Parley Dalley.
Center.....	Tooele.....	.....	1	36.4	.....	60	25	7	3	40	2.21	.....	0.35	21.5	14	2	14	15	.....	L. C. Peterson.
Clarkston.....	Cache.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2.48	.....	0.40	.....	10	9	2	20	.....	Wm. J. Griffiths.
Corinne.....	Boxelder.....	4,240	42	37.6	- 2.7	65	26	13	3	40	0.85	- 0.55	0.32	3.0	5	9	6	16	.....	A. C. Murphy.
Deseret.....	Millard.....	4,541	18	39.6	- 1.2	63	25	10	3	39	1.67	+ 0.70	0.36	.....	10	8	7	16	.....	S. W. Western.
Erekson.....	Tooele.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3.45	.....	0.79	43.0	14	.....	.....	.....	n.	N. W. Erekson.
Enterprise.....	Washington.....	4,270	4	.....	.....	.....	.....	.....	.....	.....	3.99	.....	1.37	16.0	6	4	18	14	s.	John Day.
Fairfield.....	Utah.....	4,866	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Harden Ashby.
Farmington.....	Davis.....	4,267	12	40.0	- 0.9	59	25†	15	3	39	4.04	+ 1.65	0.82	29.8	15	11	10	10	n.	Charles Boylin.
Fillmore.....	Millard.....	5,100	22	40.8	- 0.8	61	6†	16	3	40	3.08	+ 1.09	0.60	.....	14	.....	.....	.....	.....	J. J. Starley.
Frisco.....	Beaver.....	5,318	18	35.6	- 3.3	57	25	19	3†	29	1.82	+ 1.04	0.75	.....	6	.....	.....	.....	.....	Essen Nordberg.
Garrison.....	Millard.....	.....	9	35.9	.....	61	19†	15	3	39	2.51	.....	0.98	18.0	3	6	2	18	n.	E. M. Smith.
Government Creek.....	Tooele.....	5,277	12	35.9	- 2.2	57	18	2	3	44	4.00	+ 1.79	1.15	33.0	11	5	6	20	s.	Walter James.
Granger.....	Salt Lake.....	.....	1	38.5	.....	63	18†	5	3	47	3.52	.....	0.80	.....	13	.....	.....	.....	.....	Geo. F. Greene.
Grantsville.....	Tooele.....	.....	3	.....	.....	.....	.....	.....	.....	.....	2.17	.....	0.48	.....	11	9	9	13	.....	Dr. J. C. Woodmansee.
Grouse Creek.....	Boxelder.....	.....	1	.....	.....	.....	.....	.....	.....	.....	0.45	.....	0.14	3.2	7	9	5	17	sw.	Philip Paskett.
Heber.....	Wasatch.....	5,606	19	33.2	- 1.5	55	25	8	22	35	3.97	+ 1.77	0.70	30.0	17	6	7	18	s.	John Crook.
Henefer.....	Summit.....	5,301	13	33.6	- 2.3	58	25	0	3	42	3.99	+ 1.56	0.69	31.0	19	6	9	16	w.	Wm. Brewer.
Hooper.....	Weber.....	4,436	1	.....	.....	.....	.....	.....	.....	.....	4.56	.....	1.03	.....	8	.....	.....	.....	.....	T. M. Jones, jr.
Ibapah (near).....	Tooele.....	7,500	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Lawton.
Ibex.....	Millard.....	.....	2	40.4	.....	65	25	20	3	34	2.93	.....	0.83	23.0	18	3	7	21	s.	John J. Watson.
International.....	Tooele.....	5,370	1	.....	.....	.....	.....	.....	.....	.....	4.77	.....	1.00	48.6	13	8	14	9	se.	I. S. and R. Co.
Josepa.....	do.....	.....	1	41.0	.....	81	24	8	3	57	3.82	.....	0.70	.....	9	8	9	14	n.	Geo. K. Hubbell.
Joy.....	Juab.....	.....	1	39.4	.....	59	18	11	3	35	1.75	.....	0.85	.....	5	.....	.....	.....	.....	A. M. Laird.
Junction.....	Plute.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1.31	.....	0.45	.....	7	.....	.....	.....	.....	Geo. Jensen.
Kanosh.....	Millard.....	5,250	4	.....	.....	.....	.....	.....	.....	.....	2.43	.....	0.49	.....	12	.....	.....	.....	.....	Geo. Crane.
Kelton.....	Boxelder.....	4,230	34	35.8	- 4.2	58	24	15	4†	33	0.62	+ 0.11	0.25	5.0	3	1	20	10	se.	F. W. Klock.
Lemay.....	do.....	.....	1	43.0	.....	68	23	25	20	30	0.45	.....	0.40	.....	3	11	12	8	nw.	Agent S. P. Co.
Levan.....	Juab.....	5,010	22	37.0	- 0.9	58	18†	11	3	32	4.16	+ 2.07	0.95	26.2	14	10	7	14	sw.	Wm. Brown.
Logan.....	Cache.....	4,507	21	34.8	- 0.1	60	25	12	3	31	2.02	+ 0.06	0.49	12.0	13	.....	.....	.....	.....	Utah Exp. Station.
Low.....	Tooele.....	.....	1	40.2	.....	64	24†	15	3	39	1.65	.....	0.60	21.0	11	12	9	10	n.	Agent W. P. Ry. Co.
Lucin.....	Boxelder.....	4,504	8	37.7	.....	63	28	16	21	36	0.14	.....	0.06	3.0	3	16	9	6	.....	R. G. Crocker.
Lund.....	Iron.....	5,086	1	38.6	.....	59	28	20	23	38	1.24	.....	0.30	.....	6	5	5	18	n.	C. M. Edwards.
Manti.....	Sanpete.....	5,575	18	39.0	+ 1.2	63	5	16	17	38	2.19	+ 0.64	0.27	.....	19	1	4	26	.....	J. M. Anderson.
Maple Creek.....	Utah.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3.21	.....	0.91	T.	15	5	11	15	.....	L. W. Gillilan.
Marion.....	Summit.....	6,750	8	.....	.....	.....	.....	.....	.....	.....	5.06	.....	1.16	45.0	20	6	6	19	s.	Jas. Woolstenhulme.
Marysvale.....	Plute.....	6,180	13	36.2	- 2.0	60	2†	14	17	43	1.90	+ 0.56	0.41	15.1	18	3	6	22	sw.	John W. Henry.
Meadowville.....	Rich.....	6,200	13	27.1	- 2.6	48	6	- 7	22	31	3.01	+ 1.17	0.70	37.5	12	10	6	15	.....	J. S. Moffat.
Mercur.....	Tooele.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. H. Franklin.
Midlake.....	Boxelder.....	.....	1	41.0	.....	52	18†	26	4	20	0.92	.....	0.32	.....	4	4	21	6	nw.	Agent S. P. Co.
Midvale.....	Salt Lake.....	.....	1	39.4	.....	65	18	4	2	50	3.78	.....	0.89	1.3	15	8	13	10	s.	Jos. Williams.
Millford.....	Beaver.....	4,962	8	38.7	.....	62	27	15	4	40	1.50	.....	.....	5.0	.....	.....	.....	.....	.....	Agent Salt Lake Route.
Millville.....	Cache.....	4,848	17	.....	.....	.....	.....	.....	.....	.....	2.40	+ 0.34	0.35	.....	14	5	19	7	n.	Fred Yeates.
Minersville.....	Beaver.....	5,070	15	.....	.....	.....	.....	.....	.....	.....	1.90	.....	0.44	5.1	13	.....	.....	.....	.....	Geo. Roberts, sr.
Modena.....	Iron.....	5,479	12	35.5	- 3.7	56	28	13	11	30	2.70	+ 1.40	1.25	20.2	16	9	5	17	w.	U. S. Weather Bureau.
Morgan.....	Morgan.....	5,068	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. Visick.
Moroni.....	Sanpete.....	5,519	4	36.2	.....	56	25	12	3	30	2.56	.....	0.46	18.7	15	4	6	21	sw.	B. F. Eliason.
Mosida.....	Utah.....	.....	39	39.9	.....	64	18	13	3	42	2.22	.....	0.50	8.0	12	13	6	12	.....	Roy P. Curtis.
Mount Nebo.....	do.....	4,650	11	41.2	.....	62	25	21	22	34	2.84	.....	0.62	13.0	13	9	11	11	s.	D. C. Walkey.
Nephi (near).....	Juab.....	.....	9	.....	.....	.....	.....	.....	.....	.....	2.80	.....	0.75	.....	8	.....	.....	.....	.....	S. Boswell.
Newcastle.....	Iron.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. W. Jones.
Oak City.....	Millard.....	4,900	8	39.6	.....	65	26	13	3	40	5.17	.....	0.75	29.5	18	4	13	14	.....	Peter Nielson.
Ogden.....	Weber.....	4,310	11	40.8	- 0.7	61	31	13	4	31	1.85	+ 0.02	0.74	6.0	10	13	8	10	s.	A. Van De Graaf.
Panguitch.....	Garfield.....	.....	32	32.3	.....	52	5†	7	15	38	2.10	.....							

TABLE 1.—Climatological data for March, 1912. District No. 10—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, unmelted.	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.	
<i>Utah—Continued.</i>																				
Wendover.....	Tooele.....		1							0.45		0.30	8.0	3				J. S. Cooper.		
Whisky Creek.....	Millard.....		1							3.10		0.70	15.0	9				George Stevens.		
Winder.....	Garfield.....									2.86		1.15		12				Q. K. Kimball.		
Woodruff.....	Rich.....	6,500	14															J. Sidney Lussey.		
<i>Oregon.</i>																				
Burns.....	Harney.....	4,157	21	41.7	+ 7.2	71	31	13	4†	46	0.55	- 0.52	0.15	4.0	5	10	7	14	nw.	J. C. Welcome, jr
Clifton.....	Lake.....	4,200	5	32.1		64	31	5	2†	56	0.39		0.08	1.0	8	8	4	19	n.	John C. Green.
Palsley.....	do.....	4,500	9	38.6		60	21†	21	20	28	1.35		0.50	10.0	5	10	15	6	w.	E. C. Woodward.
Silver Lake.....	do.....	4,700	15	34.3	- 1.4	68	31	7	3	55	0.92	- 0.28	0.22	2.0	6	16	9	6	sw.	Geo. W. Marvin.
<i>California.</i>																				
Tahoe.....	Placer.....	6,420	2	29.0		49	26†	3	7	31	3.35		1.15	43.0	13	15	4	12	w.	R. M. Watson.
Truckee.....	Nevada.....	5,819	41	33.6	+ 8.3	56	26†	4	9	42	5.90	+ 0.29	1.50	59.0	13	2	16	13	se.	Southern Pacific C
<i>Nevada.</i>																				
Austin.....	Lander.....	6,594	23	35.4	+ 0.3	78	27	- 1	13	60	2.00	+ 0.50	1.05	20.0	3	17	4	10		F. O. Booc.
Battle Mountain.....	do.....	4,843	41	42.6	+ 1.1	74	24	20	10†	50	1.00	+ 0.30	0.40	10.0	3	18	7	6	w.	Southern Pacific Co.
Beowawe.....	do.....	4,905	41	37.8	- 3.4	59	6	19	29	35	0.97	+ 0.32	0.35	9.7	3	16	15	0	w.	Do.
Carlin.....	Elko.....	5,232	41	37.1	+ 2.5	68	24†	10	21	52	0.14	- 0.78	0.07	1.4	4	27	0	4		Do.
Carson Dam.....	Churchill.....	4,032	5	40.5		67	28	12	3	38									w.	U. S. Reclamation Service.
Cherry Creek.....	White Pine.....	6,450	4	38.3		68	24	12	21	46	2.53		0.58	47.5	13	10	11	10	w.	J. H. Leishman.
Clover Valley.....	Elko.....	6,000	11	30.6	- 5.8	61	25	15	22	38	1.18	- 0.61	0.50	5.0	9	8	10	13	w.	I. F. Wiseman.
Columbia.....	Esmeralda.....	5,750	5	38.6		61	28	15	13	36	1.41		0.67	8.0	10	9	11	11	se.	A. Booth.
Dry Farm.....	do.....		0																	Walfrid Sohlman.
Elko.....	do.....	5,432	41																	E. J. Clark.
Ely.....	White Pine.....	6,421	21	37.2†	+ 4.3	57‡	25†	11‡	3	40	1.96	+ 0.39	0.35	30.5	16				sw.	R. F. Mathias.
Eureka.....	Eureka.....	6,500	9	33.5		59	28	4	21	38	4.05		0.76	39.0	12	9	5	17	s.	Clay Simms.
Fallon.....	Churchill.....	3,965	7	40.9		70	28	9	3	44	0.37		0.17	2.0	6	13	7	11	ne.	U. S. Experiment Station.
Fernley.....	Lyon.....	4,200	39	40.4	- 1.2	68	24†	10	3†	48	T.	- 0.42	T.	T.	0	11	14	6	w.	Mrs. G. A. Steele.
Geyser.....	Lincoln.....		3	28.0		60	31	0	16	55	2.30		0.60	22.0	6	7	9	15	s.	Mrs. J. F. Wambolt.
Glenbrook.....	Douglas.....		8	30.6		50	27	12	7†	27	1.95		0.30	19.5	8	9	22	0	w.	C. C. Henningsen.
Golconda.....	Humboldt.....	4,697	33	39.0	- 1.7	70	30	11	22	43	0.61	- 0.00	0.23	T.	12	8	11	2	ne.	Southern Pacific Co.
Halleck.....	Elko.....	5,631	19	34.6	+ 2.2	61	24	9	13	41	0.33	- 0.70	0.11	6.7	8	8	21	2	w.	Do.
Hawthorne.....	Mineral.....	4,569	18	42.3	- 1.4	70	24	20	3	41	0.35	+ 0.13	0.17	3.0	4	9	6	16	sw.	G. B. Stannard.
Jean.....	Clark.....	2,074	4																ne.	Salt Lake Route.
Lahontan.....	Churchill.....		0	42.8		69	28	15	2	39	0.12		0.09	0.6	2	6	22	3	w.	U. S. Reclamation Service.
Lowers Ranch.....	Washoe.....	5,500	24	38.8	- 0.8	69	27	15	3†	42	2.95	- 1.26	0.80		7	5	17	9		Ross Lewers.
Lovelocks.....	Humboldt.....	3,977	18																	C. H. Allender.
Millett.....	Nye.....		4	36.0		60	25†	7	3	45	0.96		0.48	13.0	5	8	9	14	s.	Fred J. Jones.
Mina.....	Mineral.....	4,600	5	44.3		65	28	29	20	28	0.40			4.0	16	0	15	5	se.	Southern Pacific Co.
Potts.....	Nye.....	6,990	19	31.8	- 1.1	54	24†	5	11	34	0.28	- 0.65	0.07	15.0	7	6	2	23	s.	Miss Mamie Potts.
Quinn River Ranch.....	Humboldt.....	4,850	10																	F. M. Payne.
Rebel Creek.....	do.....		0	37.4		65	28	13	3†	44	1.46		0.50	6.0	7	13	8	10	sw.	E. J. Hyatt.
Reno.....	Washoe.....	4,532	41	38.8	- 2.2	63	25	16	3	50	0.83	- 0.39	0.28	8.2	8	12	8	11	w.	U. S. Weather Bureau.
Soda Lake.....	Churchill.....	5,434	5																	U. S. Reclamation Service.
Tecoma.....	Elko.....	4,812	34	37.9	+ 1.1	64	31	15	23	45	0.28	- 0.15	0.20	2.7	6	8	13	10	e.	Southern Pacific Co.
Tonopah.....	Nye.....	6,090	7	34.8		55	28	18	21	25	0.78		0.68	9.5	6	8	13	10	se.	U. S. Weather Bureau.
Wells.....	Elko.....	5,631	40	36.6	+ 2.4	60	25	6	3	39	0.25	- 1.00	0.07	3.2	9	3	12	16	se.	Southern Pacific Co.
Winnemucca.....	Humboldt.....	4,432	33	37.4	- 2.4	65	28	11	3	42	0.72	- 0.23	0.30	2.9	9	10	7	14	ne.	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, 1912. 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			
Wyoming.																																			
Border	Bear		.26	.28	T.		T.	.10		.41	.61	.23		T.	.01	T.	.17		T.	.12								.06							2.25
Cokeyville	do.	T.	.17	.22		.07		.25		.22	.06	.30		T.	.06	T.	.05		T.	.23														1.65	
Evanston	do.	T.	.17			.11			T.	.11	T.	.41		T.	.29	T.	.19		T.	.11													0.7	2.18	
Idaho.																																			
Geneva	Bear	.14	.24	.70	.15	.10	.55	.30	.10		.02	.08		.01	.10	.08	.06															.01	2.64		
Grace	do.		.80			.15					.15	.01		T.																	2.09	3.20			
Paris	do.	.12	.04			.10																											0.29		
Weston	do.	.08	.16	.07		.41	.09	.09		.12	.17	.18		.08																	.10	.14	1.97		
Utah.																																			
Alpine	G. S. Lake				.10	.22	.20		.25		.20	.30		.30	.08		.30														.96	.15	3.45		
Beaver	Sevier Lake				.24		.10		T.		.10	T.		.10	.45													.26		.15	.35	.05	2.30		
Black Rock	do.							T.	T.		.84			.18													.62	.23	T.	.16	.13	0.70			
Burrville	do.												.50																				0.70		
Castle Rock	G. S. Lake		.03	.15		.20	.03	.40	.05	.10	.10	.30	.03	.30	.05	.10	.20	.10	T.	.05	.50				.20			.05	.05	.50		.2.89			
Cedar City	Desert				T.	.02	.01		T.	.25	.35	.30		.06	.06	.10	.15	T.	.05		.03	.60	.17				.05	.08	.07	.20	.36	2.00			
Center	do.		.25	.20	T.	.30	T.	T.	T.	.20	.40	.05		.10	.40						.06	.05						.10	.10	.20		2.21			
Clarkston	G. S. Lake	.20	.30		.20	.30	.20			.20	.40	.05		.10	.40																		2.48		
Corinne	do.	T.	.20		.20	.30	.20			.20	.40	.05		.10	.40																		2.85		
Deseret	Sevier Lake	.02		.04				.13	T.	T.	.36	.30		.28			.02											.26		T.	.13		1.67		
Erekson	Desert		.13	.03	.09			.05	.06		.60	.55		.15			.17											.16			.79		3.45		
Enterprise	G. S. Lake						.67								.27						*	1.07						.35		*.36		3.99			
Fairfield	do.																																		
Farmington	do.			.30	T.	.05	T.	.25	.06	.10	.10	.82		.40	.05	T.	.30														.60	.40	4.04		
Fillmore	Sevier Lake			.20	.01			.04	.13		.15	.51		.05	.43		.06										.10	.21	.50	.60	.10	3.06			
Frisco	Desert										.75			.15																			1.82		
Garrison	do.		T.								.78			T.																			2.51		
Government Creek	do.			.45	.07						.28			.20			.24																4.00		
Granger	do.	T.	.09			.05	.08	.07	.20		.55			.80	.26		.15											.16			.15	.16	3.52		
Grantsville	G. S. Lake				.10						.21	.20	.33		.04	.17	.01														.13	.74	.12	4.00	
Grouse Creek	Desert	.07	.06			.02	.14	T.	.25		.02	.21		.11			.03														.49	.20	2.17		
Heber	G. S. Lake		.18	T.	.15	.05	.40	.38	.05	T.	.26	.10		.20	.05	*	.70				.10	.60									.55	.20	3.97		
Henefer	do.	.10		.29	T.	.15	.05	.30	.02	.12	.14	.13		.69	.05	.02	.49	.02													.02	.60		3.99	
Hooper	do.		.30		.70	.21		.70			.82		.43				1.03																4.56		
Ibapah (near)	Desert																																		
Ibex	do.			.04	.03					.27	T.	.43		.12	.11	.01																.25	2.93		
International	G. S. Lake		*	.43	.05			*	.26		.23	.77		.10	.59		.16				*										.97	.43	4.77		
Josepa	Desert		*	.42	T.			.06		T.	.35	.60		.69	.20																*	.70	3.82		
Joy	do.						.15				.20			.35																			1.75		
Junction	Sevier Lake		.04		T.	.03				T.	.10	T.		.07	T.																.85		1.51		
Kanosh	do.			.21					.19		.12			.24			.25															.42		1.31	
Kelton	G. S. Lake	T.					T.				.15			.22	.25																.25	.12	2.43		
Lemay	Desert													.40																				0.62	
Levan	Sevier Lake	.03	T.	.24	.12			.41	.38		.18	.12		*	.56		.21											*	.95	.03	.67	T.	4.16		
Logan	G. S. Lake	.13	.49			.22	.13	.15	.02	.28	.10	.40		.08		.01	.10														.28	.02		2.02	
Low	do.					.05		.08	.01	.10	.10	.40		.10	.01	.10	.10														.60			1.65	
Lucin	Desert		T.				.02				.06			.06																				0.14	
Lund	do.				.01		.11		*		.78	.16		.08																				1.24	
Manti	Sevier Lake	T.	.09	.07	.03	.04	.11	.21	.04	.06	.16		.16	.14		.21					.06	.19	.02							.06	.27	.13	1.24		
Maple Creek	G. S. Lake	T.	.16		.09	.03	.14	.04	T.	.27	.26		.16	.10	T.	.19					.06	.56								.06	.16	.91	.08	3.21	
Marion	do.	.04	T.	.10	.14	.04	.45	.60	T.	.09	.09	.23	T.	.65	.12	.03	.46	T.			.07	1.0	T.						.10	.06	.50	.17	5.06		
Marysvale	Sevier Lake	T.	.05	.05	.01	.06	.01	T.	.04	.28	.05	.10		.10	.06						.11	.41	.02							.03	.50	.36	T.	1.90	
Meadowville	G. S. Lake	T.	*	.65		*	.15	.03		.70	.03	.30		.15		T.	.29	.05			.10	T.									.60	.05	3.01		
Mercur	do.										.32	.17			.14																			0.92	
Midlake	do.		.36	.04	.01		.16		.08		.19	.67	.05		.19		.08														.29	.30	.01	3.78	
Midvale	do.	.01																																11.50	
Millford	Sevier Lake		.20	.29	T.	.11	.28	.18	T.	.35	.12	.15		.18	.03		.17	T.			.05										.10	.19		2.40	
Millville	G. S. Lake		.02	.01		.05		.15		.30	.05			.07	.20																.22	.01	.07	1.90	
Minersville	Sevier Lake		T.	.01	.07	.03	.15		T.	.52	.84		.15	.07																	.08	.05	.01	2.70	
Modena	Desert																																		
Morgan	G. S. Lake																																		
Moron	Sevier Lake	.05	T.	.09	.05		T.	.14	.28	T.	.16	.17		.20	.31		.14				.01	.22								T.	.46	T.	.20	.08	2.56
Mosida	G. S. Lake		.09	.06		.03				.05	.29		.14	.10		.02						.41									.18	.50	.35	2.22	
Mount Nebo	do.	.03		.10	.11			.13		.15	.07			.04	.52		.12					.47									.16	.62		2.84	
Nephi (near)	do.		.05	.05				.10			.30			.75								.43									.52			2.80	
Newcastle	Desert																																		
Oak City	Sevier Lake	.04	.04	.26	.11		.08	.22	.01	.43	.68																								

TABLE 3.—Maximum and minimum temperatures at selected stations for March, 1912. District No. 10, Great Basin.

Table with columns for Date, Burns, Oreg., Nevada (Cherry Creek, Eureka, Fallon, Halleck, Jean, Lahontan, Millett, Mina, Rebel Creek, Reno, Tecoma, Tonopah, Winnemucca), and rows for days 1-31 and monthly means (Mns.).

Table with columns for Date, Wyoming (Border, Evanston, Weston), Idaho (Corinne, Deseret, Government Creek), Utah (Ibex, Marysvale, Meadowville, Modena, Ogden, Parowan, Provo, Salt Lake City), and rows for days 1-31 and monthly means (Mns.).

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