CLIMATOLOGICAL DATA FOR JANUARY, 1913.

DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL SUMMARY.

The month of January, 1913, is almost without parallel in respect to the general severity of the weather throughout the Great Basin. It was much colder than January of last year. In the Utah area the temperatures averaged lower than for any January since 1898; while in the Nevada area a lower average temperature has occurred only three times since 1890. The coldest weather occurred from the 4th to the 10th and from the 18th to nearly the close of the month. At the beginning of the first cold period a storm of considerable energy lay central over the southeastern corner of Colorado, while a strong high pressure area prevailed over the northwest. Under the influence of this barometric condition high winds prevailed, doing some damage, and temperatures much below normal were recorded all over the Great Basin, but particularly in the eastern portion. During the second cold period weather conditions were not so severe as in the first, but many stations recorded temperatures of zero or below.

Although the number of rainy days was about normal, the precipitation averaged below normal, and was light everywhere except in the extreme west-central portion of the district. In the Utah area most of the roads remained open during the entire month, and there was generally good range for cattle and sheep.

The average number of rainy days was 5; clear days, 13; partly cloudy days, 7; and cloudy days, 11.

TEMPERATURE.

The temperature for the district averaged 23.1°, which is 4.2° below normal, and 6.4° below the average for January of last year. The highest local monthly means occurred in the sheltered valleys of the Utah areas and in the southern portion of both the Utah and the Nevada areas; and the lowest in the Wyoming and Idaho areas. The local monthly mean temperatures ranged from 11.2° at Paris, Idaho, to 34.0° at Jean, Nev. Every station but one, with a record of 10 years or more, showed monthly means below their January normals, the greatest minus departure being 9.4° at Thistle, Utah. The month began warm, but cold weather soon set in, culminating in extremely low temperatures on the 5th, 6th, and 7th. At many places in the Utah area records for low temperature were broken. At McGill, Nev., the cold weather hindered open-pit mining, as the ore was frozen and shovels could not be used; and a correspondent at McDermitt reported that all valley quails were killed and that there was no winter pasture, necessitating the feeding of stock. The minimum temperatures in the respective States or parts of States were: −32° on the 6th at Border, Wyo.; −26° on the 6th at Weston, Idaho; −38° on the 6th at Woodruff, Utah; −21° on the 6th at Cliff, Oreg.; −8° on the 5th at Tahoe, Cal.; and −29° on the 6th at Tecoma, Nev. The highest temperatures reported were: 46° on the 25th at Cokeville, Wyo.; 43° on the 15th at Weston, Idaho; 64° on the 3d at Ibex, Utah; 48° on the 31st at Burns, Oreg.; 53° on the 3d at Cathedral Park, Cal.; and 69° on the 31st at Jean, Nev.

PRECIPITATION.

The precipitation for the district averaged 1.26 inches, which is 0.59 inch below normal. The greatest amounts fell in the Utah area, and in the extreme west-central portion of the district. In the Oregon area and at a few stations in Nevada amounts above normal occurred, but in the greater portion of the district deficient amounts fell. Most of the precipitation occurred in the middle decade of the month. The greatest local amount for the month was 9.04 inches at McKinney, Cal.; and none was reported at Lemay, Utah. The greatest 24-hour amount was 2.69 inches at McKinney, Cal., on the 15th.

SNOWFALL.

In the Great Salt Lake and Sevier Lake watersheds the snow layer ranged from 108 to 4 inches, averaging somewhat less than last year and much less than normal. Many correspondents reported, however, that the snow was well drifted and packed, and therefore in a condition for late keeping.

In the Nevada area the snowfall was deficient in all drainage basins except the Humboldt, and the amounts ranged from 9.8 inches at Winnemucca, Nev., to 188.5 inches at McKinney, Cal.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Border	Lincoln	6,085	11	11.8	− 1.6	42	25	− 32	6	42	0.33	− 0.91	0.08	4.4	7	12	4	15	w.	S. W. Condron.
Cokeville	do	6,204	3	13.2		46	25	− 32	6	45	0.50		0.13	9.5	7	16	4	11	w.	E. J. Tuckett.
Evanston	Uinta	6,860	17	16.4	− 4.1	42	28	− 28	6	42	0.62	− 0.62	0.22	5.0	4	12	13	6	sw.	Frank Tucker.
Idaho.																				
Geneva	Bear Lake	6,171	4								0.88		0.44	10.0	3	11	15	5		F. W. Boehme.
Grace	Bannock	5,400	6	21.4		54	15	− 22	6	48	0.45		0.15		7	5	4	22	sw.	E. W. Joy.
Paris	Bear Lake	5,946	18	11.2	− 7.8	42	25	− 26	6	47	0.78	− 0.77	0.40	18.0	4	9	10	12	sw.	John Norton.
Weston	Oneida	4,460	14	20.8	− 4.1	43	15†	− 17	6	34	0.52	− 1.01	0.14	8.5	5	9	2	20	sw.	Wm. T. Chatterton.
Utah.																				
Alpine	Utah	4,900	14								0.80	− 0.63	0.30	8.0	6	10	7	14		T. F. Carlisle.
Beaver	Beaver	6, 00	9	20.2		53	3	− 22	5	57	0.10		0.05	1.0	2	14	15	2	n.	M. J. Shelton.
Black Rock	Millard	4,872	9	25.9		60	3	− 17	7	56	0.10		0.10	1.0	1	13	9	9	s.	W. D. Livingston.
Burrville	Sevier	6,800	2	19.6		49	3	− 15	6†	58	0.12		0.06	1.2	3					F. R. Curtis.
Castle Rock	Summit	6,244	8								1.24		0.30	25.0	11	8	7	16	sw.	David Moore.
Cedar City	Iron	5,750	8	27.4		61	3	− 18	6	41	0.53		0.45	7.0	4	15	5	11	sw.	Parley Dalley.
Center	Tooele	4,250	1																	L. C. Peterson.
Clarkston	Cache	5,930	1								0.50		0.50	8.0	1	12	9	10		W. J. Griffiths.
Corinne	Boxelder	4,240	43	21.3	− 3.5	42	28	− 12	7	40	1.30	− 0.07	0.40	13.0	5	8	8	15		A. C. Murphy.
Deseret	Millard	4,541	18																	S. W. Western.
Elberta	Utah	4,650	11	22.5		49	4	− 12	6†	31	0.50		0.29	7.0	7	15	6	10	n.	D. C. Walkey.
Enterprise	Washington	5,750	7																	John Day.
Erekson	Tooele	4,850	1																	N. W. Erekson.
Farmington	Davis	4,267	12	27.0	− 2.4	46	15†	− 10	6	31	2.18	− 0.20	0.50	21.8	9	11	4	16	n.	Charles Boylin.
Fillmore	Millard	5,100	21	28.6	− 2.3	57	29	− 14	6	46	0.35	− 0.73	0.17		6					J. J. Starley.
Garland	Boxelder			20.4		42	18	− 10	6	36	0.28		0.12	6.0	3	3	18	10	s.	Heber C. Cutler.
Garrison	Millard	4,850	10																	E. M. Smith.
Government Creek	Tooele	5,277	12	22.5	− 5.6	49	26†	− 17	6	31	0.65	− 0.60	0.31		3	9	1	21	n.	Walter James.
Granger	Salt Lake	4,560	1	22.6		42	3†	− 9	7	29	1.60		0.40	16.0	5					Geo. E. Greene.
Grantsville	Tooele	4,220	2								0.42		0.16	8.8	4	12	15	4	sw.	J. C. Woodmansee.
Grouse Creek	Boxelder	5,148	5								0.51		0.21	11.6	7	11	3	17		Philip Paskett.
Heber	Wasatch	5,593	20	17.8	− 3.7	44	3	− 30	6	49	1.20	− 1.16	0.20	23.0	8	12	8	11	n.	John Crook.
Henefer	Summit	5,301	13	18.8	− 4.2	50	3	− 28	6	51	1.37	− 1.14	0.30	14.0	8	12	4	15	e-w-nw	William Brewer.
Hooper	Weber	4,436	2																	T. M. Jones, jr.
Ibapah (near)	Tooele	7,500	9																	J. S. Lawton.
Ibex	Millard	5,250	2	30.6		64	3	− 6	7	45	0.08		0.04	2.0	2	16	4	11	s.	John J. Watson.
Iosepa	Tooele	4,356	2	27.8		59	26	− 3	7	45	0.88		0.22		7	9	3	19	s.	Geo. K. Hubbell.
Joy	Juab	5,000	1																	A. M. Laird.
Junction	Piute	6,000	1								T.		T.	T.	0	13	16	2	s.	Joseph Jensen.
Kanosh	Millard	5,250	6								0.92		0.52		3					Geo. Crane.
Kelton	Boxelder	4,230	33	20.6	− 2.3	45	8	0	8†	45	0.45	− 0.22	0.30	4.5	3	19	6	6	sw.	F. W. Klock.
Lemay	do	4,221	2	24.8		39	1	10	7†	26	0.00		0.00	0	0	17	0	14		Agent S. P. Co.
Levan	Juab	5,010	23	21.2	− 3.1	44	15	− 15	6†	33	1.08	− 0.38	0.32	10.8	6	18	1	12	sw.	William Brown.
Logan	Cache	4,507	22	22.4	− 1.8	45	13†	− 10	7	37	0.69	− 0.86	0.25	9.0	7					Utah Experiment Station.
Low	Tooele	4,602		30.8		60	4	− 3	6	45	0.20		0.10	2.0	2	11	6	14		Agent W. P. Ry. Co.
Lucin	Boxelder	4,504	6																	C. C. Herrington.
Lund	Iron	5,086	4																	Job F. Hall.
Manti	Sanpete	5,575	18	21.0	− 4.5	47	15	− 22	7	40	0.55	− 0.72	0.18	4.5	5	10	5	16		J. M. Anderson.
Maple Creek	Utah	4,850									0.92		0.27	12.9	6	9	4	18		Lewis W. Gillilan.
Marion	Summit	6,400	8								1.26		0.40	14.5	9	4	7	20	se.	Jas. Woolstenhulme.
Marysvale	Piute	6,076	13	22.5	− 6.0	54	3	− 16	7	56	0.37	− 0.29	0.15	4.9	6	8	16	7	n.	John W. Henry.
Meadowville	Rich	6,200	12	18.4	− 4.7	41	13†	− 20	6	41	0.50	− 1.58	0.30	5.0	2	15	2	14		J. S. Moffat.
Midlake	Boxelder	4,235	2																	Agent S. P. Co.
Midvale	Salt Lake	4,365		24.6		48	3†	− 12	5	45	0.55		0.11		10	5	13	13	sw.	M. J. Joy.
Milford	Beaver	4,962	5																	Agent Salt Lake Route.
Mills	Juab										0.12		0.07		2					Geo. McCune.
Millville	Cache	4,848	18								0.85	− 0.92	0.34		9	3	18	10	s.	Fred Yeates.
Minersville	Beaver	5,070	9								T.		T.	T.	0	16	4	11	n.	Geo. Roberts, sr.
Modena	Iron	5,479	12	23.9	− 3.6	60	3	− 14	3	46	0.32	− 0.41	0.18	3.8	3	22	4	5	w.	U. S. Weather Bureau.
Morgan	Morgan	5,068	8	21.0		49	3	− 20	6	45	0.21		0.16		3					E. O. Kingston.
Moroni	Sanpete	5,919	5	22.2		46	15	− 17	6†	41	0.71		0.37	14.8	4	15	3	13	sw.	B. F. Ellason.
Mosida	Utah	4,510																		L. B. Curtis.
Nephi (near)	Juab	5,119	8																	S. Boswell.
Newcastle	Iron	5,150	2								0.12		0.12		1					T. W. Jones.
Oak City	Millard	4,900	6	25.6		55	3	− 12	6	40	0.55		0.25	11.0	4	12	7	12		Peter Nielson.
Ogden	Weber	4,310	42	24.2	− 4.8	46	25	− 8	6	37	1.59	− 0.03	0.50	20.5	7	12	1	18	s.	A. Van De Graff.
Panguitch	Garfield	6,560																		John N. Henrie.
Park City	Summit	7,800	8	19.8		48	27	− 27	6	66	3.79		2.01		6	15	8	8		Gertrude Evans.
Park Valley	Boxelder	5,200	2								0.70		0.60	7.0	2	9	12	10	nw.	A. O. Evans.
Parowan	Iron	5,970	22	26.8	− 2.2	59	3	− 15	7	42	0.39	− 0.65		5.0	2	17	7	7		Alex. Matheson.
Payson	Utah	4,637	9								0.65		0.24	8.5	5	9	17	5	ne.	D. L. Coombs.
Pelican Point	do	4,600	2																	B. M. Mendelhall.
Pine Cliff Ranch	Summit	8,250	2																	L. E. Leavitt.
Pinto	Washington	5,907	15	21.8	− 5.6	59	3	− 15	7	49	0.31	− 1.06	0.25		3	20	2	9	n.	J. H. Harrison.
Plentiful	Tooele	4,220																		C. L. Drumm.
Promontory	Boxelder	4,913	34								0.80	− 0.22	0.50	8.0	2					F. C. Houghton.
Provo	Utah	4,532	24	21.4	− 6.1	50	15	− 15	6	38	1.20	− 0.32	0.50		8	6	18	7	n.	James A. Oliver.
Randolph	Rich	6,442	11																	Wm. Rex.
Revier	Salt Lake	5,066	2								0.48		0.25		3					E. L. Terry.
Richfield	Sevier	5,350	19																	Joseph J. Jensen.
Richmond	Cache	4,529									1.17		0.32	14.4	9	6	12	13		J. R. Thompson.
Saltair	Salt Lake	4,220	9	26.6		49	18	− 1	7	25	0.54		0.13	9.0	8					E. J. Bench.
Salt Lake City	do	4,360	39	26.9	− 1.9	49	15	− 2	7	23	0.81	− 0.54	0.29	12.3	8	5	10	16	se.	U. S. Weather Bureau.
Scipio	Millard	5,260	18	23.6	− 3.8	54	29	− 25	6†	54	0.40	− 0.96	0.22	6.0	4	14	5	12	n.	Thomas Memmott.
Showell	Boxelder	4,650		18.1		46	14†	− 22	6	45	0.37		0.16	5.7	4	11	19	1		Richard Ilgner.
Silver City	Juab	6,127	3								0.51		0.30		3	10	19	2	sw.	J. L. Stark.
Smyths	Beaver																			V. Waddoups.
Soldier Summit	Utah	7,477	11	13.8	− 4.5	41	3	− 27	6	35	1.35	− 0.08	0.60		3	17	7	7	w.	Geo. A. Boyd.
Spanish Fork	do	4,585	3	23.6		48	3	− 16	7	43	0.80		0.80		1	11	6	14		U. S. Rec. Service.
Strawberry Tunnel, W.	do	7,650	7	17.0		46	28	− 23	7	45	2.66		0.59	40.0	11	16	9	6		Do.
Thistle	do	5,075	19	16.0	− 9.4	50	1	− 35	6	50	2.34	+ 0.54	0.72	39.0	9	9	15	7	w.	John Thorgierson.
Tooele	Tooele	4,900	17	25.9	− 3.9	54	3	− 9	5†	37	1.19	− 0.04	0.26		7	7	3	21	s.	E. A. Bonelli.
Utah Lake Pum'g Sta.	Utah	4,500	8	17.2		43	30	− 23	7	41	1.62		0.36	21.5	11	7	9	15		W. A. Knight.

TABLE 1.—*Climatological data for January, 1913. District No. 10*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***Utah*—Continued.**																				
Vernon	Tooele	5,500									0.65		0.17	11.3	7	11	18	2	sw.	Glynn Bennion.
Wendover	do	4,237	2																	J. S. Cooper.
Whiskey Creek	Millard	4,850	2								1.35		0.45		4					George Stevens.
Woodruff	Rich	6,500	11	6.9	−10.7	43	14	− 38	6	63										A. L. Eastman.
Oregon.																				
Burns	Harney	4,157	22	20.4	− 2.9	48	31	− 13	5	45	1.55	+ 0.04	0.45	11.5	6	17	8	6		J. C. Welcome, jr.
Cliff	Lake	4,300	6	22.6		47	29†	− 21	6	47	0.67		0.15	13.0	9	6	10	15	sw.	John C. Green.
Paisley	do	4,209	10																	C. M. Sain.
Silver Lake	do	4,700	16	24.6	− 3.7	47	24	− 11	6	33	1.37	+ 0.29	0.40	11.0	9	13	11	7	sw.	G. W. Marvin.
California.																				
Cathedral Park	Eldorado	6,400	0	25.4		53	3	− 2	6	31	7.53		1.88	125.0	12	12	4	15	s.	Carl Fluegge.
Tahoe	Placer	6,240	2	24.3		50	3	− 8	5	32	7.44		1.97	114.0	8	10	0	21	w.	R. M. Watson.
Truckee	Nevada	5,819	41																	Southern Pacific Co.
Nevada.																				
Austin	Lander	6,594	24																	F. O. Booe.
Battle Mountain	do	4,843	42	23.1	− 5.1	55	28	−18	10†	50	0.27	− 0.59	0.25		3	22	0	9	s.	Southern Pacific Co.
Beowawe	Eureka	4,905	42	20.6	− 5.8	56	3	−20	9†	48	0.90	+ 0.13	0.50	9.0	3	12	3	16	se.	Do.
Carlin	Elko	5,232	42	24.0	+ 0.9	58	25	−22	9	64	0.09	− 0.99	0.03		7	8	13	10		Do.
Carson Dam	Churchill	4,032	6	28.4		64	3	− 7	6	47	0.29		0.29	1.9	1	16	12	3	e.	U. S. Reclamation Service.
Cherry Creek	White Pine	6,450	5	24.1		53	3	−15	7	38	0.25		0.22	4.5	2	14	13	4	w.	J. H. Leishman.
Clover Valley	Elko	6,000	12																	I. F. Wiseman.
Columbia	Esmeralda	5,750	6	26.6		55	3	− 6	6	39	0.25		0.22	4.2	3	19	6	6	nw.	A. Booth.
Dry Farm	Elko	5,600	1	24.0		52	2	−15	6	37	0.60		0.23	13.0	4					Walfrid Sohlman.
Elko	do	5,432	42	20.6	− 2.1	51	3	−20	20	48	0.49	− 0.83	0.14	11.0	6	19	0	12	w.	E. J. Clark.
Eureka	Eureka	6,500	15	22.4	− 4.7	53	3	−18	5	39	0.48	− 1.39	0.18	20.0	5	12	6	13	n.	Clay Simms.
Fallon	Churchill	3,965	19	28.4	− 2.4	64	3	−10	6	53	0.25	− 0.30	0.11	1.5	4	16	7	8	ne.	U. S. Experiment Station.
Fernley	Lyon	4,200	40	30.3[c]	− 0.9	64[g]	3†	−13[c]	6	56[g]	0.60	− 0.21	0.60	6.0	1					Mrs. G. A. Steele.
Gardnerville	Douglas	4,930	22	28.1	− 3.1	63	3	− 8	6	49	1.27	− 1.20	1.00	14.0	6	22	5	4	s.	Forest Service.
Gerlach	Washoe	3,931	0								0.06		0.05	0.6	2				nw.	Western Pacific Co.
Geyser	Lincoln	6,055	9																	Mrs. J. F. Wambolt.
Glenbrook	Douglas	6,240	4	27.2		60	31	− 3	6	37	4.95		2.00	61.5	8	13	4	14	w.	C. C. Henningsen.
Golconda	Humboldt	4,697	34	26.4	− 1.4	55	3	−12	6	47	0.70	0.00	0.40	7.0	4	10	8	13	w.	Southern Pacific Co.
Halleck	Elko	5,631	20	20.3	− 1.5	48	1†	−24	20	63	0.49	− 0.56	0.30	8.5	4	13	11	7		Do.
Hawthorne	Mineral	4,569	19																	G. B. Stannard.
Jean	Clark	2,074	5	34.0		69	31	− 6	7†	53	0.30		0.30	3.0	1	21	8	2		Salt Lake Route.
Lahontan	Churchill	4,200	1	29.4		64	3	− 2	5	45	0.22		0.20	2.0	2	15	11	5	w.	U. S. Reclamation Service.
Lewers Ranch	Washoe	5,500	25	29.2	− 4.6	58	3	− 6	6	35	3.55	− 1.70		34.0	5	11	14	6		Ross Lewers.
Lida	Esmeralda	6,037	0	31.6		62	3	− 3	6†	56	0.09		0.09	0.9	1	27	2	2	nw.	L. F. Detwiler.
Lovelocks	Humboldt	3,977	19																	A. P. Tilford.
McDermit	do	4,700	23																	Scott Sterling.
McGill	White Pine	6,338	22	21.8	− 2.3	53	3	−16	6†	52	0.69	− 0.38	0.54	6.9	2	18	6	7	s.	R. E. Middagh.
Millett	Nye	6,002	5	25.4		61	3	−12	6†	57	0.10		0.10	1.0	1	13	7	11	s.	Fred J. Jones.
Mina	Mineral	4,600	6	29.4		62	2	1	11	47	0.06		0.06	0.2	1	19	0	12		Southern Pacific Co.
Oasis Ranch	Esmeralda	5,106	0	25.9		53	31	− 8	8	38	0.13		0.11	7.0	2	25	2	4	s.	A. S. Patterson.
Potts	Nye	6,990	20																	Miss Mamie Potts.
Quinn River Ranch	Humboldt	4,850	11	23.9	− 4.0	49	3†	−16	6	41	0.67	− 0.69	0.20	6.5	7	16	2	13	w.	F. M. Payne.
Rebel Creek	do		1	24.2		50	13	−11	23	43	1.23		0.62	17.0	7	13	1	17	sw.	E. J. Hyatt.
Reno	Washoe	4,532	42	29.9	− 2.6	60	3	− 1	6	41	1.46	− 0.49	0.85	19.9	4	15	6	10	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	6																	U. S. Reclamation Service.
Tecoma	Elko	4,812	35	20.0	− 2.4	52	27	−29	6	69	0.39	− 0.25	0.25	3.9	3	8	12	11	w.	Southern Pacific Co.
Tonopah	Nye	6,090	8	26.1		50	3	− 6	6	31	0.18		0.18	1.2	1	19	6	6	se.	U. S. Weather Bureau.
Wabuska	Lyon	4,347	8	31.6[j]		64[j]	3	1[j]	20	48[j]									ne.	J. G. Young.
Wells	Elko	5,631	41	18.4	− 4.6	42	28	−24	5	41	0.20	− 1.24	0.10	13.0	4	13	6	12	w.	Southern Pacific Co.
Winnemucca	Humboldt	4,432	34	25.2	− 3.6	56	3	−13	6	39	0.59	− 0.45	0.24	7.0	7	13	3	15	sw.	U. S. Weather Bureau.

[a], [b], [c], etc., indicate, respectfully, 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 January, 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	
Wyoming.																																	
Border	Bear	.10		.01	T.					.08	.02	.01				T.			.08													.03	0.33
Cokeville	do									.13	T.	T.	.05	.10	.10	.07	.03						T.			.02						T.	0.50
Evanston	do	.14			T.	T.				T.	.09		.06		T.		.22		T.			T.								T.			0.51
Idaho.																																	
Geneva	Bear															.44			.26		.18												0.88
Grace	do				.15				.12	.07	.02								.05	.02			.02			T.							0.45
Paris	do								.20								.40	.10	.08														0.78
Weston	do									.10	.14		.05				.10						.13										0.52
Utah.																																	
Alpine	G. S. Lake									.10	.30			.20				.05					.10									.05	0.80
Beaver	Sevier Lake	T.			T.					.05						T.							.05										0.10
Black Rock	do																.10																0.10
Burrville	do									.06										.05	.01												0.12
Castle Rock	G. S. Lake	.20			.03					.02	.10		.20	.10		.02	.30	.20		.05			T.	.02							T.		1.24
Cedar City	Desert				.45						.03						.04				.01												0.53
Center	do																																
Clarkston	G. S. Lake												.50																				0.50
Corinne	do									.10	.20		.30			.40							.30										1.30
Deseret	Sevier Lake																																
Elberta	G. S. Lake	.02			.01						.29						.03	.02		.05				.08									0.50
Enterprise	do																																
Erekson	Desert																																
Farmington	G. S. Lake				.30						.50		.20				.20	.15	T.	.10	T.		.20	.32								.21	2.18
Fillmore	Sevier Lake	T.			.17	.03				T.	.01						.01	.07		T.			T.	.06									0.35
Garland	G. S. Lake									.08					.12				.08														0.28
Garrison	Sevier Lake																																
Government Creek	do										.09						.31					T.		.25									0.65
Granger	do		.40							.40								.30	.10			.40											1.60
Grantsville	G. S. Lake				.10													.09	.07				.16										0.42
Grouse Creek	Desert	.01			T.					.10	.08		.21				.03	T.	.05	.03			T.			T.							0.51
Heber	G. S. Lake									.15	.10		.20	T.	.05	T.	.20	.20	.20	.10				T.									1.20
Henefer	do	.29		T.	T.					.10	.19		.15	.05	.10		.30	T.	T.	.19			T.	T.								T.	1.37
Hooper	do																																
Ibapah [near]	Desert																																
Ibex	do				T.						T.						.04	.04															0.08
Iosepa	do	.10			.12	.22					.05						.15	.12						.12									0.88
Joy	do																																
Junction	Sevier Lake					T.					T.						T.						T.										T.
Kanosh	do				.52	.19																		.21									0.92
Kelton	G. S. Lake								.10	.05						.30				T.							T.						0.45
Lemay	Desert																																0.00
Levan	Sevier Lake	.14			T.						.12						.32	.11		.18				.21									1.08
Logan	G. S. Lake									.04	.25	.03				.10	.01		.10				.13									.03	0.69
Low	do			T.							.10											.10											0.20
Lucin	Desert																																
Lund	do																																
Manti	Sevier Lake	.18			.16						T.						.05	.08		T.			.08										0.55
Maple Creek	G. S. Lake	T.	T.								.12		.18				.10			.27			.08	.17									0.92
Marion	do	.13			.10					T.	.08	T.	.05		T.		.20	.40	.07	.05			T.	.18							T.		1.26
Marysvale	Sevier Lake	T.			.01					.01		T.					.08	.10		.02			T.	.15									0.37
Meadowville	G. S. Lake				.20								T.				T.		.30														0.50
Midlake	do																																
Midvale	do	.02		.03	.05				.02	.10					.02	.08				.06			.11									.06	0.55
Milford	Sevier Lake																																
Millville	G. S. Lake	.02			.02				.03		.34		.12				.06	.07	.08					.11									0.85
Mills	Sevier Lake				T.	T.					.05								.07														0.12
Minersville	do				T.						T.						T.	T.						T.									T.
Modena	Desert				.18					.10							.04							T.									0.32
Morgan	G. S. Lake										.02		.16					.03															0.21
Moroni	Sevier Lake	T.				T.					T.		T.				.37	.08		.06			.20									T.	0.71
Mosida	G. S. Lake																																
Nephi (near)	do																																
Newcastle	Desert																.12																0.12
Oak City	Sevier Lake		.02								.25						.23							.05									0.55
Ogden	G. S. Lake			T.	.10					.50	.17		T.				.30		.03				.37									.12	1.59
Panguitch	Desert																																
Park City	G. S. Lake	.48	.10									1.09		2.01	.09																	.02	3.79
Park Valley	Desert												.60	.10																			0.70
Parowan	do				*	.39														T.													0.39
Payson	G. S. Lake	.05										.24					.08	.09					.19										0.65
Pelican Point	do																																
Pine Cliff Ranch	do																																
Pinto	Desert				.01		.05										.25																0.31
Plentiful	G. S. Lake																																
Promontory	do							.50									.30																0.80
Provo	do	.05								.05	.05						.25	.05		.05			.20									.50	1.20
Randolph	do																																
Revier	do									.13							.10															.25	0.48
Richfield	Sevier Lake																																
Richmond	G. S. Lake								.05	.20		.20	.20			.08	.09	T.	.01				.32									.02	1.17
Saltair	do	.05			.04						.05						.06	.08		.07			.06	.13									0.54
Salt Lake City	do	T.		.01	.04					.12	.18		T.				.14			.10			.16									.06	0.81
Scipio	Desert	T.									.22						.01	.10						.07									0.40
Showell	do	.07								.06			.08				.16																0.37
Silver City	do										.30							.15	.06														0.51
Soldier Summit	G. S. Lake	.40			T.								T.					.60		.35			T.									T.	1.35
Spanish Fork	do										T.								T.	.80													0.80
Strawberry Tunnel (west).	do	.30			.08					.12	.25		.59	.07			.30	.27	.08	.43				.17									2.66
Thistle	do	.72			*	.12				.12	.18		.54				.24	.18		.24													2.34
Tooele	do	.26			T.	.25					.03						.16	.16		.07			T.	.26									1.19
Utah Lake pumping station.	do	.36			.05				.14	.24	.10			.30	.10		.03			.05			.07									.18	1.62
Vernon	Desert	T.			.11	T.	T.			T.	.17		T.				.11	.09	.02	.11			T.	.04									0.65
Wendover	do																																
Whiskey Creek	do	.45			.20						.30							.40															1.35
Winder	Sevier Lake																																
Woodruff	G. S. Lake																																

TABLE 2.—*Daily precipitation for January, 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	
Oregon.																																	
Ana River	SE. drainage				.04			.06	T.		.05			.08	T.	.65	.13	.02															1.03
Bear Valley	do																																
Burns	do							.45			T.	.18	.22	.25	T.	T.				T.		.34		.11									1.55
Burns Mill	do																																
Christmas Lake	do			T.	.05			.07	T.	.09	T.			.13	.20	.05	.05	T.	.12	T.		T.	.04		T.								0.80
Cliff	do			T.	T.			.08		.08				.10	.15		.02	.02	.11				.08		.03								0.67
Diamond	do	T.						T.	.10		.20	.05			T.	T.	T.	T.	T.	T.			.20										0.55
Embody	do				.05			.03	.41			.19	.52	1.18	.19	.27	.21	.68	.45	.09		T.		T.									4.27
Fort Rock	do			T.	.03			T.	.10	.03		.03		.35	.05	.05	.03	.50															1.17
Paisley	do																																
Seneca	do																																
Silver Lake	do				.05			.10	.05					.40	.14		.14	.06	.38			.05											1.37
Valley Falls	do					.03						.17	.18		T.	T.	0	.03	.05		.08		.03										0.57
California.																																	
Bijou	Truckee								.26				.07	T.	.67	1.73	.72	.21	.40	.07													4.13
Boca	do								.60				.10		1.00	2.20	1.00	1.40					.30										6.60
Bridgeport	East Walker				.10				.35		.20					.90	.30	.20															2.05
Cathedral Park	Truckee	.60						*	.80	.21		.26		*	1.10	1.88	.97	.94	.52				.25										7.53
Deer Park	do																																
Hobart Mills	do					.02			.50	.04		T.	.30	.03	1.40	1.80	1.00	0.62	0.81				.11										6.63
Lundy	East Walker									.75						*	1.80	.50															3.05
McKinney	Truckee								.58	.14		.05	.68		.72	2.59	1.62	1.35	1.03	.08			.20										9.04
Markleeville	East Carson				T.				.47	T.	.06	T.			.38	1.48	1.54	.20	.41			T.											4.54
Shields Ranch	East Walker				T.				.05		.15					.87	.35																1.42
Silver Creek	East Carson				.18				.70	T.	.20	.09			.67	1.93	2.07	.37	.47			T.											6.68
Tahoe	Truckee								.55				.50		.85	1.97	1.40	.55	1.50	T.			.12										7.44
Tallac	do								.25	.14		T.	T.		1.05	2.00	1.10	1.00	.70	T.			T.										6.24
Truckee	do																																
Woodfords	West Carson														.70	1.30	.60	.40															3.00
Nevada.																																	
Arthur	Humboldt	T.									*	*	*	*	*	*	*	*	*	.35													0.35
Austin	Reese																																
Battle Mountain	Humboldt									.25				T.			.01						.01										0.27
Beowawe	do								.50			.30	T.				T.		.10			T.	T.										0.90
Carlin	do				T.				.03	T.		.01	.01			.01	.01	T.	.01			T.	.01		T.								0.09
Carson Dam	Carson									T.						.29																	0.29
Cherry Creek	Humboldt										.03	T.					.22																0.25
Clover Valley	do																																
Columbia	Desert									T.	.22					.02	.01																0.25
Dry Farm	Humboldt									.11			.14				.23						.12										0.60
Elko	do								T.	.12		T.	.14			T.	.08	.10	T.	.03			.02										0.49
Eureka	do				.04					.03						.15	.18	.08		T.			T.										0.48
Fallon	Carson				T.					.10						.11	.03							.01									0.25
Fernley	Truckee				T.					T.	T.					.60							T.										0.60
Gardnerville	Carson				T.				.01		.04				.01	1.00	*	.19	.02				T.										1.27
Gerlach	Desert											.05				.01																	0.06
Geyser	Humboldt																																
Glenbrook	Truckee								.25	.25	T.	.10			1.00	2.00	1.00	.10	.25					T.									4.95
Golconda	Humboldt								.40			.10				.10							.10										0.70
Halleck	do									.03			.30				.01			.15			T.										0.49
Hawthorne	Desert																																
Hylton	Humboldt				*	.20				.09		*	.20			*	*	.17															0.66
Jean	Desert										.30																						0.30
Lahontan	Carson			T.					T.						T.	.20	.02						T.										0.22
Lewers Ranch	Truckee	.15			T.				.60						.40	1.20	*	1.20															3.55
Lida	Desert																.09																0.09
Lovelocks	Humboldt																																
McDermit	do																																
McGill	do									T.	.15					.54							T.										0.69
Metropolis	do			T.					.30	T.		.14					.10	T.	T.				.10										0.64
Mill City	do								*	.15						.15		.02					T.										0.32
Millett	Reese																.10				T.		T.										0.10
Mina	Desert					T.										T.	.06																0.06
North Fork	Humboldt				.20				.28			*	.70			.10	.16	.40	.60														2.44
Oasis Ranch	Desert				T.						.02					.11	T.																0.13
Potts	Reese																																
Quinn River Ranch	Humboldt							.03	.02			.14				.20	.08	.02					.18										0.67
Rebel Creek	do				.03			T.	.02	.20		.07	.02			.62	.04	T.	T.				.23										1.23
Reno	Truckee				T.				.07		T.		T.		.05	.85	.49		T.				T.										1.46
Smith	West Walker						.02		.03		.20					.28	.30																0.83
Soda Lake	Carson																																
Spooners Ranch	Truckee	T.		T.		T.			*	.25		T.				*	*	*	3.00	T.			T.		T.								3.25
Sweetwater	East Walker																																
Tecoma	Humboldt										.02						.25						.12										0.39
Tonopah	Desert										T.					.18							T.										0.18
Wabuska	Walker																																
Wells	Humboldt									*	.10				*	.10																	0.20
Willow Point	Little Humboldt.									.20		.30				.60							T.										1.10
Winnemucca	Humboldt	T.							.04	.20		.02	T.	.01		.18	T.	T.	.04				.10										0.59

* 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 January, 1913. District No. 10, Great Basin.*

Date.	Burns, Oreg.		Nevada.																									
			Cherry Creek.		Elko.		Eureka.		Fallon.		Jean.		Millett.		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.	Max.	Min.
1....	26	13	35	23	41	21	39	21	48	19	57	27	48	29	61	18	43	23	40	19	46	23	44	8	37	22	41	21
2....	27	12	46	10	43	10	48	12	49	12	58	29	45	6	62	15	47	16	43	13	50	19	44	0	43	25	50	16
3....	27	12	53	30	51	21	53	20	64	11	65	36	61	4	60	17	52	17	49	8	60	19	50	− 9	50	34	56	17
4....	12	− 2	45	8	42	12	43	5	45	20	58	20	52	12	54	16	38	18	43	15	35	9	48	− 3	34	3	27	6
5....	15	− 13	46	8	14	− 8	9	− 18	22	1	50	4	15	14	26	11	18	6	18	1	17	4	43	−12	6	− 3	17	− 3
6....	24	− 1	9	− 3	11	− 16	7	− 16	18	− 10	28	1	14	−12	20	12	18	− 2	17	−16	21	− 1	40	−29	9	− 6	18	− 13
7....	30	9	6	− 15	24	− 7	27	− 12	30	− 11	30	− 6	23	−12	31	10	25	− 1	20	− 6	33	4	43	−24	24	2	26	− 1
8....	33	− 2	25	− 11	37	18	28	− 6	46	11	40	− 5	41	0	38	18	23	− 8	34	12	43	24	45	−12	26	14	33	15
9....	25	− 4	36	10	29	11	23	10	42	8	42	6	33	11	38	12	34	3	26	16	34	14	47	− 3	26	13	28	4
10....	25	5	29	19	18	− 15	20	− 5	24	7	37	12	31	− 4	38	14	37	7	24	−11	31	11	44	− 4	21	11	25	− 7
11....	34	9	28	− 5	23	− 18	27	− 6	28	− 5	34	− 3	27	11	30	1	31	− 7	20	− 8	38	8	42	−19	21	8	27	− 7
12....	39	27	40	20	42	19	44	18	44	15	33	− 6	40	17	39	9	35	12	42	18	49	31	47	− 6	26	13	44	26
13....	42	11	42	17	40	28	34	16	50	31	36	− 2	40	15	40	13	40	17	43	28	53	34	45	1	28	21	47	33
14....	37	11	38	30	40	31	36	16	51	20	40	6	45	23	47	11	41	20	47	29	44	33	45	2	33	20	45	24
15....	36	5	40	24	40	30	35	14	43	30	55	9	35	24	37	19	34	25	40	27	40	25	44	− 5	32	22	34	18
16....	36	7	36	15	35	11	39	12	37	19	51	10	30	10	37	13	36	24	34	5	31	23	45	− 3	29	22	34	7
17....	39	14	33	20	34	13	30	11	47	19	51	23	41	14	41	17	36	7	34	14	45	25	43	3	30	21	42	18
18....	32	− 2	40	30	42	30	41	18	51	27	50	28	47	29	44	14	41	15	43	28	44	35	47	3	33	26	45	18
19....	32	− 3	35	11	38	3	36	9	46	17	50	33	42	23	39	6	38	17	34	14	36	10	43	9	29	14	32	13
20....	38	19	20	− 8	25	− 20	32	− 6	37	14	53	20	32	− 1	44	14	39	7	32	5	31	5	44	−15	28	11	33	[illegible]
21....	32	19	42	10	30	− 7	43	9	42	7	54	8	35	− 1	42	15	37	0	34	18	46	11	45	−14	35	20	38	12
22....	39	− 6	35	25	32	19	36	21	43	27	58	5	40	31	45	14	38	1	42	22	39	29	45	4	34	23	37	14
23....	36	19	28	− 1	29	− 19	31	6	40	9	60	8	38	10	41	22	36	20	22	−10	37	22	43	−20	29	17	34	1
24....	45	23	40	6	36	− 1	43	9	44	12	63	12	51	7	55	16	41	18	42	8	46	20	44	− 7	42	23	40	16
25....	44	19	45	17	44	19	49	18	52	15	60	22	52	7	53	17	48	20	48	12	46	21	50	− 3	45	32	50	20
26....	38	8	39	15	38	6	45	17	47	12	64	36	53	6	52	19	48	21	49	9	45	18	50	1	46	32	45	20
27....	36	4	39	11	39	0	45	16	47	17	65	36	50	5	55	17	46	19	44	11	44	20	52	1	46	34	45	18
28....	32	− 1	41	10	36	− 3	47	16	48	12	63	29	48	6	50	16	47	18	47	9	43	20	48	− 3	47	33	46	16
29....	34	8	45	18	41	− 1	46	18	53	16	66	32	52	5	56	17	48	21	48	8	49	20	50	− 1	47	31	50	14
30....	35	10	40	19	41	12	40	16	51	16	67	36	50	10	54	23	52	24	45	15	50	22	47	8	46	29	46	20
31....	48	7	40	15	37	8	37	15	52	15	69	36	50	11	52	19	53	27	47	15	48	21	48	2	44	25	48	17
Mns..	33.2	7.7	36.0	12.2	34.6	6.7	35.9	8.8	43.3	13.5	51.8	16.2	40.7	10.0	44.5	14.4	38.7	13.1	37.2	10.6	41.1	18.7	45.6	−5.6	33.1	19.1	38.2	12.2

Date.	Wyoming.				Weston, Idaho.		Utah.																			
	Border.		Evanston.				Blackrock.		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.
1.....	28	9	29	7	32	13	46	16	30	1	37	19	45	20	29	7	42	17	31	10	47	23	35	12	33	16
2.....	30	− 3	28	1	31	6	41	2	39	7	35	28	40	5	33	3	44	12	39	10	49	14	30	0	31	16
3.....	38	18	40	20	41	15	60	4	37	9	40	20	54	− 2	41	27	60	14	43	15	59	17	41	5	44	21
4.....	33	1	33	2	40	13	55	6	39	6	41	13	14	9	34	9	35	11	25	17	49	11	39	16	30	13
5.....	9	−24	12	−10	14	− 6	53	5	29	− 1	15	−16	12	2	16	− 7	12	− 7	20	5	12	1	20	0	14	3
6.....	− 2	−32	3	−28	10	−17	17	−10	24	−10	7	−17	5	−10	6	−20	8	−13	12	− 8	9	−10	10	−15	10	0
7.....	3	−27	5	−22	10	−15	20	−17	24	−12	13	−14	15	−16	15	−15	18	−14	16	− 5	14	−15	15	−14	15	− 2
8.....	20	−15	35	− 2	27	6	38	− 6	24	6	31	10	40	− 6	24	3	36	− 2	32	− 5	33	1	32	− 1	32	10
9.....	34	17	33	15	33	19	38	19	30	10	33	14	32	− 2	34	17	29	11	37	14	38	3	32	22	38	24
10.....	20	5	23	2	28	6	30	4	35	15	31	− 1	27	0	27	9	29	7	32	18	39	15	30	25	26	20
11.....	18	0	16	− 3	22	− 1	32	− 8	33	15	21	− 3	29	− 4	22	0	29	− 6	30	5	29	− 2	30	− 5	26	15
12.....	28	8	26	9	32	19	42	20	35	13	32	16	46	13	31	12	34	10	37	17	37	12	37	13	38	22
13.....	33	8	38	8	38	22	47	6	32	15	39	26	45	9	41	15	44	9	43	22	43	13	38	7	41	26
14.....	40	14	39	12	40	32	45	30	38	14	40	24	47	32	41	21	40	24	45	27	44	25	40	25	45	36
15.....	40	8	36	17	43	29	49	25	33	11	43	14	40	30	41	22	42	16	43	34	44	27	50	16	49	37
16.....	33	14	33	22	43	22	42	23	29	12	40	7	39	27	35	21	32	26	37	28	38	19	44	26	42	26
17.....	24	11	24	9	32	12	41	23	40	10	34	.....	40	22	29	14	38	25	40	17	40	27	38	18	39	26
18.....	34	10	34	3	41	25	43	30	40	25	38	.....	47	20	39	19	37	30	41	19	38	22	43	26	44	32
19.....	30	− 9	32	6	32	0	38	22	40	12	40	.....	39	11	31	1	42	14	31	14	41	25	40	15	32	16
20.....	12	−25	15	−14	24	− 3	32	− 1	41	1	35	.....	29	− 4	15	− 6	29	5	26	4	32	7	23	− 7	27	11
21.....	19	−14	32	− 5	28	11	48	12	38	5	39	.....	42	1	26	− 3	41	6	36	5	46	8	36	− 2	34	12
22.....	25	9	36	8	28	20	42	17	36	6	37	.....	41	6	32	10	35	13	32	12	40	8	37	16	34	24
23.....	24	− 8	25	4	31	4	35	13	29	3	29	.....	30	12	23	5	33	11	32	19	36	20	32	3	27	16
24.....	19	− 7	27	2	29	7	42	1	31	2	35	.....	40	− 1	26	0	42	4	41	8	47	10	29	− 5	31	14
25.....	42	17	36	21	39	24	50	7	36	10	48	.....	48	9	32	15	49	13	46	20	51	21	42	14	43	29
26.....	36	0	34	9	40	11	48	8	38	7	49	.....	43	10	36	12	46	17	43	17	48	28	40	7	41	25
27.....	14	−14	33	1	32	4	47	5	40	11	46	.....	43	6	37	5	43	10	41	13	47	15	37	6	40	23
28.....	30	−12	42	0	37	3	48	3	42	10	49	.....	46	5	37	− 4	46	10	42	12	49	15	37	3	39	21
29.....	23	−15	36	2	36	5	55	3	39	9	44	.....	48	8	38	− 2	54	16	44	12	52	17	41	3	42	22
30.....	29	− 5	32	16	35	15	46	10	39	7	38	17	40	25	32	10	45	16	40	15	46	26	42	14	39	29
31.....	30	0	27	11	32	10	47	7	40	12	36	18	42	12	34	4	44	18	34	20	46	20	32	11	35	26
Mns....	25.7	−2.0	28.8	4.0	31.6	10.0	42.5	9.3	34.8	7.8	35.3	9.7[m]	37.0	8.0	30.2	6.6	37.4	10.4	35.2	13.3	40.1	13.6	34.6	8.2	34.2	19.6

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