U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT NO. 10, GREAT BASIN

ALFRED H. THIESSEN
DISTRICT EDITOR

REPORT FOR MAY, 1913

Prepared under direction of HENRY E. WILLIAMS, Acting Chief U. S. Weather Bureau

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DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, Section Director.

GENERAL SUMMARY.

Favorable conditions prevailed generally throughout the whole month of May, 1913. There was a small excess in temperatures, which was beneficial, and a deficiency in precipitation, which, however, was not harmful. In the Utah area there were some frosts during the forepart of the month and ice occurred in the mountain districts. The frost did a great deal of damage, though several communities reported no losses.

The average number of rainy days was 3, clear days 14, partly cloudy days 10, and cloudy days 7.

TEMPERATURE.

For the district as a whole the temperature for the month of May averaged 55.9°, which is 1.3° below normal. The local mean temperatures ranged from 43.7° at Woodruff, Utah, to 71.° at Jean, Nev., but the means at the majority of stations averaged between 50° and 60°. Almost all stations reported averages above normal. The lowest means occurred in the Idaho and Wyoming areas, and the highest in the Utah and southern portion of the Nevada areas.

Deficiencies in temperature occurred at a few scattered stations both in the Utah and Nevada areas, while excesses which were not large were the rule. The greatest local deficiency was 3.9° at Woodruff, Utah, where the mean was 43.7°; and the greatest excess was 5.6° at Burns, Oreg., where the mean was 54.4°.

The forepart of the month was cool, while the latter part was warm. The lowest temperatures occurred on the 1st, 2d, and 3d, and on those days ranged from 5° at Tecoma, Nev., to 35° at Midlake, Utah, and Lahontan, Nev. After the 3d a change to warmer set in, but the temperature rose slowly until the beginning of the last decade, which was the warmest of the month, the temperatures averaging above normal.

The highest temperatures occurred on various dates from the 22d to the end of the month, but generally on the 24th, 25th, and 26th. The highest temperatures for the month in the respective States or parts of States were: 86° on the 28th at Cokeville, Wyo.; 92° on the 31st at Grace, Idaho; 107° on the 26th at Midvale, Utah; 98° on the 22d at Jean, Nev.; 89° on the 26th at Burns, Oreg., and 74° on the 16th at Bridgeport and on the 24th at Tahoe, Cal.

PRECIPITATION.

The precipitation for the district averaged 0.96 inch, which is 0.38 inch below normal. The precipitation chart shows quite heavy amounts in the northern portion of the Utah and western portion of the Nevada area, but in the former section all the amounts were below normal. In the Nevada area the rainfall for the month was the heaviest May rainfall since 1906. In the Utah area only one-half the normal fell. While no droughty conditions developed, moisture was badly needed at the close of the month, the creeks having fallen rapidly despite the warm weather's effect on the mountain snow after the 15th.

Light showers fell on the 1st and 2d in the extreme northeastern portion of the district. Showers began again on the 6th in the Oregon and California areas, becoming somewhat general on the 13th in Utah, and again on the 18th with scattered showers on adjacent dates. In the Oregon, Nevada, and California areas, rain was heaviest during the last five days of the month, but light in other parts of the district. On the 27th thunderstorms occurred at many stations, and lightning struck the Government telephone and power line at Spanish Fork, Utah, doing damage to some electrical equipment, and a team was reported killed by lightning a mile distant from that place.

SNOW SURVEY OF BIG COTTONWOOD WATERSHED.

By H. K. BURTON, Assistant Engineer, assisted by W. A. RICHMOND.

During the month of April, 1913, a snow survey was made of Big Cottonwood Canyon. The party, consisting of five men and a team, with complete equipment for two parties, left the city April 23, returning May 3.

The objects of the survey were to determine the depth and density of the snow in the main forks of the canyon, the approximate surface supply at the beginning of the melting season, the physical condition of the snow, and the condition of the ground surface beneath the snow layer.

The information thus obtained will be of relative value for this year only, as we have but the survey of 1912 for comparison, and the conditions this year differ greatly from what were found then.

The observations should be continued for several years in order to get data for the reliable calculation of the available water supply.

From the first camp at Maxfield Lodge trips were made to the head of Broads Fork; Mill B, South Fork; and Mineral Fork. At frequent intervals soundings of depth were taken by means of a graduated steel-pointed rod.

At representative points measurements were made of the depth and density of the snow by the use of graduated galvanized-iron tubes, one set being 2 inches and the other 3 inches in diameter. The density determination consisted of weighing the tube and the inclosed core of snow on a spring balance so graduated that the equivalent in inches of water could be read off directly.

The second camp was made at the United States planting station, where trips were made to the head of Mill D, South Fork; Mill D, North Fork; Days Fork; Silver Fork; and Willow Patch Fork.

The third camp was made at Brighton, from which Mill F, East Fork; Brighton Basin; and the head of Mill F, South Fork, were thoroughly covered.

In addition to the numerous soundings of depth there were 120 density measurements made throughout the main canyon and various forks. The measurements were made at elevations ranging from 6,300 to 9,600 feet, and the depth of snow varied from 1 to 9 feet.

The following table gives the number of soundings, average depth, water equivalent, density, acre-feet, and square miles for each of the forks, and from these data the conditions in Bear Trap Fork and the north side of the canyon from Mill B, North Fork, to Willow Patch, where the snow lay in patches, were estimated:

Location.	Elevation.	Number of soundings.	Average depth.		Water equivalent.	Per cent density.	Acre-feet.	Square miles.
	Feet.		*Ft.*	*In.*	*Inches.*			
Broads Fork	6,300–9,600	10	3	8	17.41	37.0	1,952.7	2.1
Mill B, South Fork	6,640–9,050	13	4	1	14.05	35.9	2,158.1	2.4
Mineral Fork	6,880–8,530	8	3	4	14.70	36.1	1,489.8	1.9
Mill D, South Fork	7,075–9,400	20	3	9	18.78	38.8	5,178.3	5.17
Mill D, North Fork	7,320–8,600	9	3	4	12.44	34.0	1,679.1	2.53
Days Fork	7,470–8,940	10	4	8	22.05	38.9	2,658.4	2.26
Silver Fork	7,700–9,500	9	4	1	18.46	38.9	2,086.8	2.12
Willow Patch Fork	7,750–8,850	6	3	6	14.80	38.4	1,081.1	1.37
Mill F, East Fork	8,150–9,250	8	5	1	23.11	38.2	1,472.2	1.6
Main Canyon and Brighton Basin	8,700–9,540	27	5	4	23.42	37.5	8,486.3	6.8
Bear Trap Fork	7,550–8,750	0	3	5	15.33	37.4	1,528.7	2.16
North side, Mill B to Willow Patch	6,700–9,000	0	3	0	13.46	37.4	1,433.6	2.0
Total		120	..	..			31,705.1	32.41
Average			3	11	18.34	37.4		
Over total watershed			..	..	12.26		31,705.1	48.5
Over total watershed for 1912			..	..	21.5			

The water equivalent is 12.26 inches for the total watershed of 48.5 square miles.

The water equivalent for the entire watershed for 1912 was 21.5 inches.

From information gathered from residents of the canyon, the snowfall was unusually light this year, most of it coming in February and March. This late snow is already going very fast in the lower portions of the canyon. At the head of the various forks and around the higher lakes the difference in the snowfall was not so great, being about 80 per cent of what was found there last year. The snow was well packed and the ground in good condition to receive the water.

The north face of the main canyon from the mouth of Mill D, North Fork, was practically bare. Above Mill D north the snow increased in depth to 3 feet 4 inches at the Brighton Hotel.

Along the bottom of the canyon six slides had come down across the road between Mill B, South Fork, and the Maxfield mine, but the first snow in place was found at Argenta, where it appeared in patches, increasing to the forestry station, at which point the snow was about 1 foot deep.

In all of the south forks the usual conditions of snowslides were found, where the snow had slid off the precipitous sides of the canyons, packing solidly in the bottom of the gulches.

The general conditions would indicate that there will be no high water this spring.

The snow in the higher portions of the watershed, being well packed, should come off more slowly, and the ground being in good condition to receive and hold the water, it will help our late summer supply to some extent, but the general conditions would indicate a lower flow during the late summer than we had last year.

SNOW SURVEY ON POLE CREEK WATERSHED, SANPETE COUNTY, UTAH.

By B. F. ELIASON, Cooperative Observer, Moroni, Utah.

The area covered by the Pole Canyon snow survey was more limited than last year, but the survey was more thoroughly done, because last season only a measuring stick was used, while this year a snow density tube, Weather Bureau pattern, was used in addition.

The work was done April 14, this year, and last year on April 29. Where the snow measured 18 inches last year, this year it measured 15 inches, equaling 4.1 inches of water, or a density of 27 per cent. This was due to the very saturated condition of the snow, the day being clear and abnormally warm. The snow was solidly crusted last year, but this year it was soft, breaking under the weight of my dog, or even smaller animals.

Following the old road up the wash or canyon from here, the conditions were practically the same as last year. The snow increased with elevation, and the layer was heavier on the shady slopes than elsewhere. The outfit was heavier and more cumbersome than last year, so I did not deploy from Pole Creek. The course this year from the left-hand fork of Pole Creek was due north to Jack's Springs, across the bare side, which last year was covered with snow.

The snow in the vicinity of Jack's Springs averaged 33.6 inches from a series of 12 measurements, and contained 10.4 inches of water, whereas last year there was only 5.2 inches of snow. From this point to the head of right-hand fork of Pole the snow was practically the same as that at Jack's Springs, averaging 33.8 inches, with a water equivalent of 10.7 inches. Last year there was about 40 inches of snow in this region. Monument Peak and the Birch Creek drainage area were not visited, but on the return trip the flat below the lake at the junction of the lake water with that from the west and Jack's Springs was visited, and I found the snow 28 inches deep, carrying 8.7 inches of water, while last year there was 40 inches of snow there.

The snow on Dutchman's Flat measured 26 inches and contained 7.8 inches of water. Last year it was 28 inches deep and quite solid as it faced the sun. This snow gives us our earliest water, and is therefore important, as the later snow is lost by seepage and evaporation.

Dry Lake Flat, 500 yards west of here, carried snow to the depth of 31.5 inches, and contained 9.5 inches of water. The lake, which is dry during the summer, was partly full at the time of the visit. The route then took a course west up the left-hand fork of Pole Creek. Here the snow was 28 inches deep, with 9 inches of water, while last year it was 32 inches deep.

The trip was a success as a help in the future, standardizing of our farm operations as governed by the water supply. The snow tube and balance were much superior to the measuring stick alone as used last year. This year the actual water equivalent of the snow layer was obtained.

TABLE 1.—*Climatological data for May, 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.		
Wyoming.																				
Border	Lincoln	6,085	11	49.7	+ 2.7	80	26	15	3	44	0.66	− 0.79	0.41	0	2	4	13	14	w.	S. W. Condron.
Cokeville	do	6,204	3	49.4	.....	86	28	13	3	52	0.42	.....	0.14	1.5	5	23	4	4	w.	E. J. Tuckett.
Evanston	Uinta	6,860	17	48.3	+ 2.3	78[a]	26	14[a]	2	41[a]	0.42	− 1.25	0.28	2.0	4	21	8	2	w.	Frank Tucker.
Idaho.																				
Geneva	Bear Lake	6,171	4	.....	.....	.....	.....	.....	.....	.....	0.51	.....	0.14	0	7	19	10	2	.....	F. W. Boehme.
Grace	Bannock	5,400	6	55.2	.....	92	31	22	2†	56	0.79	.....	0.30	T.	4	11	8	12	n.	E. W. Joy.
Paris	Bear Lake	5,946	18	51.0	+ 1.6	78	30	26	1†	43	.....	.....	.....	.....	.....	26	5	0	sw.	John Norton.
Weston	Franklin	4,460	14	55.4	+ 3.0	87	26	21	3	46	1.16	− 1.05	0.56	T.	6	16	3	12	s.	Wm. T. Chatterton.
Utah.																				
Alpine	Utah	4,900	14	.....	.....	.....	.....	.....	.....	.....	0.45	− 1.97	0.45	0	1	19	7	5	.....	T. F. Carlisle.
Beaver	Beaver	6,000	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. J. Shelton.
Black Rock	Millard	4,872	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Livingston.
Brigham City	Boxelder	4,305	....	60.3	.....	89	28	32	2†	34	1.87	.....	1.38	0	10	.....	.....	.....	.....	Nephi. M. Valentine.
Burrville	Sevier	6,860	2	49.8	.....	78	24	19	1	51	0.02	.....	0.01	0.2	2	.....	.....	.....	.....	F. R. Curtis.
Castle Rock	Summit	6,244	8	.....	.....	.....	.....	.....	.....	.....	0.43	.....	0.20	1.0	5	15	4	12	.....	David Moore.
Cedar City	Iron	5,750	8	57.8[e]	.....	82	25	25	3	40	0.17	.....	0.08	.....	3	23	2	6	.....	Parley Dalley.
Center	Tooele	4,250	2	55.6	.....	88	26	19	3	47	0.24	.....	0.10	0	3	12	13	6	s.	L. C. Peterson.
Clarkston	Cache	5,930	1	.....	.....	.....	.....	.....	.....	.....	1.10	.....	0.40	0	4	12	10	9	.....	W. J. Griffiths.
Corrine	Boxelder	4,240	43	56.6	− 3.6	87	26	25	3†	46	1.30	− 0.16	1.05	T.	2	13	4	14	.....	A. C. Murphy.
Deseret	Millard	4,541	18	59.0	+ 3.1	91	25	21	3	48	0.08	− 1.08	0.08	T.	1	18	6	7	s.	S. W. Western.
Elberta	Utah	4,650	11	60.1	+ 3.5	92	26	23	3	45	0.32	− 0.71	0.22	.....	4	13	12	6	s.	D. C. Walkey.
Enterprise	Washington	5,750	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Day.
Erekson	Tooele	4,850	1	.....	.....	.....	.....	.....	.....	.....	0.67	.....	0.45	2.5	4	.....	.....	.....	.....	N. W. Erekson.
Farmington	Davis	4,267	12	60.6[e]	+ 5.0	88	27	30[e]	19	44	0.78	− 2.21	0.70	0	3	20[e]	5[e]	1[e]	sw.	Charles Boylin.
Fillmore	Millard	5,100	21	61.2	+ 3.8	90	23	27	3	44	0.49	− 1.26	0.48	0	2	.....	.....	.....	.....	J. J. Starley.
Garland	Boxelder	4,248	1	57.5	.....	89	26	24	2	40	1.16	.....	0.72	0	6	0	22	9	s.	Heber C. Cutler.
Garrison	Millard	4,850	9	58.5[g]	.....	86	25	26	5	42	0.50	.....	0.50	0	1	7[g]	11[g]	6[g]	s.	E. M. Smith.
Government Creek	Tooele	5,277	12	56.2	+ 3.2	87	26	22	2	39	0.82	− 0.67	0.33	2.0	5	20	7	4	s.	Walter James.
Granger	Salt Lake	4,560	1	58.3[b]	.....	88	27	28	3	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	George E. Greene.
Grantsville	Tooele	4,220	6	.....	.....	.....	.....	.....	.....	.....	0.63	.....	0.40	0	2	13	16	2	nw.	Monto Barrus.
Grouse Creek	Boxelder	5,148	3	.....	.....	.....	.....	.....	.....	.....	1.45	.....	0.84	0	6	6	8	17	sw.	Philip Paskett.
Heber	Wasatch	5,593	20	52.6	+ 0.7	86	25	15	3	50	0.32	− 1.30	0.20	0	2	17	11	3	s.	John Crook.
Henefer	Summit	5,301	13	52.8	+ 1.9	85	24	16	3	52	0.42	− 1.52	0.30	.....	4	11	13	7	w.	William Brewer.
Hooper	Weber	4,436	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Jones.
Ibex	Millard	5,250	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John J. Watson.
Iosepa	Tooele	4,356	2	59.8	.....	91	26	25	3	50	0.71	.....	0.50	.....	3	6	14	11	n.	Geo. K. Hubbell.
Joy	Juab	5,000	1	58.3[a]	.....	89	22	26	3†	45	0.40	.....	0.20	T.	2	0	0	0	.....	Gladys Mikesell.
Junction	Piute	6,000	1	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	13	18	0	s.	Joseph Jensen.
Kanosh	Millard	5,250	6	.....	.....	.....	.....	.....	.....	.....	0.51	.....	0.47	0	2	.....	.....	.....	.....	George Crane.
Kelton	Boxelder	4,230	33	55.8	− 2.5	90	2.	17	3	48	0.70	− 0.14	0.70	0	1	0	27	4	ne.	F. W. Klock.
Lemay	do	4,221	3	67.6	.....	90	31	50	18	32	0.75	.....	0.60	.....	2	12	12	7	s.	Agent S. P. Co.
Levan	Juab	5,010	23	56.8	+ 2.5	85	24†	23	3	41	0.27	− 1.50	0.14	1.3	2	15	5	11	sw.	William Brown.
Logan	Cache	4,507	22	57.6	+ 3.1	83	26	30	2†	31	1.25	− 1.12	0.75	.....	5	.....	.....	.....	.....	Utah Experiment Station.
Low	Tooele	4,602	2	63.2	.....	96	26	31	2	42	0.50	.....	0.25	T.	2	24	5	2	.....	Agent W. P. Ry.
Lucin	Boxelder	4,504	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Herrington.
Manti	Sanpete	5,575	18	57.0	+ 1.2	83	23	24	3	39	0.56	− 0.62	0.34	.....	5	4	0	27	.....	J. M. Anderson.
Maple Creek	Utah	4,890	2	.....	.....	.....	.....	.....	.....	.....	0.97	.....	0.45	0	4	14	10	7	.....	Lewis W. Gillilan.
Marion	Summit	6,400	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jas. Woolstenhulme.
Marysvale	Piute	6,180	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lafe King.
Meadowville	Rich	6,200	12	52.2	+ 3.6	82	27	20	3	41	0.55	− 1.31	0.30	T.	3	18	4	9	.....	J. S. Moffat.
Midlake	Boxelder	4,235	2	60.5	.....	78	26†	35	1	18	0.75	.....	0.75	0	1	15	14	2	e.	S. M. Gibson.
Midvale	Salt Lake	4,365	1	63.0	.....	107	26	22	2	56	0.09	.....	0.08	0	2	9	16	6	s.	M. J. Joy.
Milford	Beaver	4,962	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent Salt Lake Route.
Mills	Juab	4,911	1	.....	.....	.....	.....	.....	.....	.....	0.08	.....	0.05	0	2	.....	.....	.....	.....	George McCune.
Millville	Cache	4,848	18	.....	.....	.....	.....	.....	.....	.....	1.32	− 0.98	0.78	0	6	4	22	5	sw.	Fred Yeates.
Minersville	Beaver	5,070	11	.....	.....	.....	.....	.....	.....	.....	0.36	− 0.87	0.25	0	2	12	18	1	sw.	George Roberts.
Modena	Iron	5,479	12	54.4	− 0.1	62	26	28	14	41	0.84	− 0.03	0.36	3.5	4	14	12	5	w.	U. S. Weather Bureau.
Morgan	Morgan	5,068	8	56.4[a]	.....	84	23	20	2	44	0.30	.....	0.30	.....	1	.....	.....	.....	.....	E. O. Kingston.
Moroni	Sanpete	5,519	5	55.4	.....	81	25	23	3	38	0.29	.....	0.23	T.	2	6	11	14	sw.	B. F. Eliason.
Mosida	Utah	4,510	1	61.4	.....	98	28	26	4	48	0.15	.....	0.10	0	2	10	0	21	.....	L. B. Curtis.
Nephi (near)	Juab	5,119	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. Boswell.
Newcastle	Iron	5,150	1	.....	.....	.....	.....	.....	.....	.....	0.45	.....	0.33	0	3	.....	.....	.....	.....	T. W. Jones.
Oak City	Millard	4,900	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Peter Nielson.
Ogden	Weber	4,310	42	58.1	− 4.6	89	26	27	3	41	0.97	− 0.85	0.67	T.	4	19	4	8	s.	A. Van De Graaff.
Panguitch	Garfield	6,560	1	48.0[a]	.....	79	22	15	3	51	0.02	.....	0.01	0	2	27[a]	3[a]	0[a]	s.	Harry L. Stremble.
Park City	Summit	7,800	8	60.6	.....	82	26	30	1	40	0.06	.....	0.05	0	2	24	7	0	.....	Gertrude Evans.
Park Valley	Boxelder	5,200	2	.....	.....	.....	.....	.....	.....	.....	1.11	.....	0.63	0	4	15	9	7	sw.	C. B. Hasting.
Parowan	Iron	5,970	22	56.0	+ 1.0	84	21	25	3	41	0.35	− 0.78	0.20	0	3	10	12	9	.....	Alex Matheson.
Payson	Utah	4,637	9	.....	.....	.....	.....	.....	.....	.....	0.87	.....	0.45	.....	3	13	15	3	sw.	D. L. Coombs.
Pelican Point	do	4,600	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. M. Mendenhall.
Pine Cliff Ranch	Summit	8,250	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. E. Leavitt.
Pinto	Washington	5,907	15	50.7[a]	+ 1.2	80	26	16	3	51	0.54	− 0.41	0.35	.....	4	21	8	2	s.	J. H. Harrison.
Promontory	Boxelder	4,913	38	.....	.....	.....	.....	.....	.....	.....	1.86	.....	1.21	0	2	.....	.....	.....	.....	F. C. Houghton.
Provo	Utah	4,532	19	57.8	+ 0.3	91	24†	21	3	53	0.25	− 1.55	0.20	.....	2	9	20	2	n.	James A. Oliver.
Randolph	Rich	6,442	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Rex.
Revier	Salt Lake	5,066	2	.....	.....	.....	.....	.....	.....	.....	0.46	.....	0.35	0	3	.....	.....	.....	.....	E. L. Terry.
Richfield	Sevier	5,350	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joseph Jensen.
Richmond	Cache	4,529	1	.....	.....	.....	.....	.....	.....	.....	1.79	.....	0.85	0	8	6	18	7	.....	J. R. Thompson.
Sahara	Iron	5,209	....	57.2	.....	88	26†	26	14	48	0.40	.....	0.20	.....	2	24	4	3	sw.	Earl Markwith.
Saltair	Salt Lake	4,220	9	59.6[b]	.....	82	27	33	3	21	0.47	.....	0.37	0	3	.....	.....	.....	.....	E. J. Bench.
Salt Lake City	do	4,360	39	60.8	+ 2.5	89	26	34	3	30	0.57	− 1.38	0.47	T.	4	17	10	4	nw.	U. S. Weather Bureau.
Scipio	Millard	5,260	18	57.0	+ 3.7	87	23	17	3	50	0.80	− 0.73	0.40	T.	3	12	6	13	n.	Thos. Memmott.
Showell	Boxelder	4,650	1	55.6	.....	90	26	24	14	46	0.76	.....	0.45	0	3	19	12	0	.....	Richard Ilgner.
Silver City	Juab	6,127	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. L. Stark.
Smyths	Beaver	4,900	1	.....	.....	.....	.....	.....	.....	.....	0.30	.....	0.30	.....	1	.....	.....	.....	.....	V. Waddoups.
Soldier Summit	Utah	7,454	12	45.4	− 1.7	78	25	12	3	52	0.58	− 0.30	0.33	.....	3	.....	.....	.....	w.	Geo. A. Boyd.
Spanish Fork	do	4,585	4	54.2	.....	86	23†	20	19†	53	1.32	.....	0.64	1.3	6	13	13	5	.....	Reclamation Service.
Strawberry Tunnel, W.	do	7,500	5	48.2	.....	76	31	16	3	39	0.95	.....	0.39	7.0	5	16	9	6	.....	Do.
Thistle	do	5,075	19	54.5	+ 0.4	92	24	19	3	58	0.60	− 0.61	0.40	.....	2	13	11	8	s.	John Thorgierson.
Tooele	Tooele	4,900	17	58.7	+ 3.3	84	26	29	2	34	1.00	− 1.41	0.56	.....	3	3	7	21	e.	E. A. Bonelli.
Tremonton	Boxelder	4,250	....	58.4[a]	.....	88	26	26	3	34	1.17	.....	0.80	.....	5	.....	.....	.....	.....	Paul Heitz.

TABLE 1.—*Climatological data for May, 1913. District No. 10, Great Basin*—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.																				
Utah Lake Pmpg. Sta.	Utah	4,500	5	59.2	.....	85	23†	24	2	37	0.39	.....	0.31	T.	4	15	9	7	.....	W. A. Knight.
Vernon	Tooele	5,500	2	.....	.....	.....	.....	.....	.....	.....	0.61	.....	0.35	T.	4	16	13	2	sw.	Glynn Bennion.
Wendover	....do	4,237	1	63.4	.....	91	25	37	4	34	0.24	.....	0.18	.....	2	.....	.....	.....	.....	J. S. Cooper.
Whiskey Creek	Millard	4,850	2	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0	0	.....	.....	.....	.....	Geo. Stevens.
Winder	Garfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	.....	0.02	.....	2	.....	.....	.....	.....	Rollo Adair.
Woodruff	Rich	6,500	10	43.7f	— 3.9	79	26	6	2	60	0.65	— 0.57	0.35	0	2	11f	7f	5f	sw.	A. L. Eastman.
Nevada.																				
Austin	Lander	6,594	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. O. Booe.
Battle Mountain	....do	4,843	2	58.3	+ 1.0	91	24†	18	1	51	0.41	— 0.34	0.15	0	3	23	4	4	nw.	Southern Pacific Co.
Beowawe	Eureka	4,905	42	.....	.....	90	29†	.....	.....	.....	.....	.....	.....	0	.....	15	9	7	s.	Do.
Carlin	Elko	5,232	42	55.5g	+ 2.4	90g	22†	11g	2	57g	1.55	+ 0.91	0.50	0	6	.....	.....	.....	.....	Do.
Cherry Creek	White Pine	6,450	5	54.0	.....	83	25	18	2	40	1.66	.....	0.58	0.5	8	12	10	9	w.	J. H. Leishman.
Clover Valley	Elko	6,000	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	I. F. Wiseman.
Columbia	Esmeralda	5,750	6	56.5	.....	86	23†	23	2	41	1.80	.....	1.02	0	5	19	8	4	se.	A. Booth.
Dry Farm	Elko	5,600	1	54.2	.....	85	9	21	2	41	1.26	.....	0.89	0	4	.....	.....	.....	.....	Walfrid Sohlman.
Elko	....do	5,432	42	51.6	— 3.0	94	9	8	2	63	1.27	+ 0.48	0.80	0	3	21	2	8	nw.	Western Pacific Co.
Eureka	Eureka	6,500	15	53.4	+ 2.5	83	25	15	2	43	3.16	+ 1.65	1.48	1.0	3	7	10	14	s.	Clay Simms.
Fallon	Churchill	3,965	19	58.5	+ 2.8	91	25†	21	2	44	2.15	+ 1.43	1.71	0	3	12	16	3	w.	U. S. Experiment Station.
Fernley	Lyon	4,200	40	58.7	+ 0.1	92	22†	25	2	52	3.34	+ 2.87	2.20	0	3	21	10	0	w.	Mrs. G. A. Steele.
Gardnerville	Douglas	4,830	22	54.8	+ 1.7	83	25†	21	1†	44	1.20	+ 0.53	0.66	0	3	19	6	6	nw.	Forest Service.
Gerlach	Washoe	3,931	0	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.40	0	2	18	0	13	nw.	Western Pacific Co.
Geyser	Lincoln	6,055	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. J. F. Wambolt.
Glenbrook	Douglas	6,240	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Henningsen.
Golconda	Humboldt	4,697	34	59.2	+ 2.6	96	27	21	2	50	0.75	— 0.05	0.40	0	2	7	15	9	w.	Southern Pacific Co.
Halleck	Elko	5,631	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.
Jean	Clark	2,074	5	71.0	.....	98	22	42	5†	51	0.00	.....	0.00	0	0	26	5	0	nw.	Salt Lake Route.
Lahontan	Churchill	4,200	1	61.7	.....	94	25	35	1	41	2.17	.....	1.79	0	5	16	13	2	w.	U. S. Reclamation Service.
Lewers Ranch	Washoe	5,500	25	54.0	+ 0.9	83	25	23	1†	47	2.13	+ 0.45	1.35	0	4	3	23	5	.....	Ross Lewers.
Lida	Esmeralda	6,037	0	54.2	.....	82	23	23	2	37	2.53	.....	1.50	0	5	24	3	4	se.	L. F. Detwiler.
Lovelock	Humboldt	3,977	19	58.0	— 2.0	94	26	22	1	50	1.69	+ 1.38	0.62	0	4	15	9	7	sw.	A. P. Tilford.
McDermit	....do	4,700	23	.....	.....	88	24	21	1†	.....	0.87	— 0.79	0.57	0	4	.....	.....	.....	sw.	Scott Sterling.
McGill	White Pine	6,338	22	54.5	+ 3.8	82	24†	15	3	45	0.78	— 0.78	0.42	0.2	4	13	13	5	s.	R. E. Middagh.
Metropolis	Elko	.....	0	53.4	.....	88	26	16	2	48	0.96	.....	0.67	0	2	.....	.....	.....	.....	O. W. Lloyd.
Millett	Nye	6,002	5	54.6	.....	85	19†	19	1	48	1.72	.....	1.02	0	3	10	12	9	w.	Fred J. Jones.
Mina	Mineral	4,600	6	59.9	.....	96	25	27	2	45	1.59	.....	0.70	0	3	17	2	12	.....	Southern Pacific Co.
Oasis Ranch	Esmeralda	5,106	0	60.8	.....	92	24	24	2	54	1.83	.....	1.35	0	3	22	3	6	s.	A. S. Patterson.
Potts	Nye	6,990	20	49.6	— 3.6	83	23	16	3	49	3.40	+ 2.33	3.00	0	3	7	4	20	s.	Miss Mamie Potts.
Quinn River Ranch	Humboldt	4,850	11	58.2e	+ 5.2	91e	26	20e	14	54e	1.18	+ 0.74	0.84	0	4	.....	.....	.....	n.	F. M. Payne.
Rebel Creek	....do	.....	1	56.4	.....	93	26	21	3	49	0.91	.....	0.33	0	5	13	10	8	sw.	E. J. Hyatt.
Reno	Washoe	4,532	42	56.5	+ 2.9	86	25	27	2	39	1.00	+ 0.21	0.55	T.	7	14	12	5	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	6	59.0	.....	90	24	27	1†	40	2.07	.....	1.53	0	5	12	16	3	nw.	U. S. Reclamation Service.
Tecoma	Elko	4,812	35	51.8	— 3.4	87	26†	5	2	60	1.02	+ 0.33	0.52	0	5	6	16	9	w.	Southern Pacific Co.
Tonopah	Nye	6,090	8	56.0	.....	81	24	22	1	34	1.11	.....	0.86	0	6	17	13	1	nw.	U. S. Weather Bureau.
Wells	Elko	5,631	41	54.4	+ 1.2	85	25	11	1	48	0.90	— 0.02	0.40	0	4	13	12	6	.....	Southern Pacific Co.
Winnemucca	Humboldt	4,432	34	57.0	+ 2.6	90	26	20	1	44	0.45	— 0.58	0.35	0.2	5	10	14	7	sw.	U. S. Weather Bureau.
Oregon.																				
Burns	Harney	4,157	22	54.4	+ 5.6	89	26	26	10	47	0.25	— 0.54	0.12	0	3	14	10	7	w.	J. C. Welcome, Jr.
Cliff	Lake	4,300	6	48.9	.....	85	26	10	1	53	0.85	.....	0.58	0	3	6	17	8	nw.	John C. Green.
Paisley	....do	4,500	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. M. Sain.
Silver Lake	....do	4,700	16	51.4	+ 2.6	85	26†	15	3	50	0.96	— 0.27	0.45	0	5	12	17	2	sw.	G. W. Marvin.
California.																				
Bridgeport	Mono	6,500	0	49.0	.....	74	16	14	3	53	1.59	.....	0.40	0	6	11	11	9	sw.	A. F. Scott.
Cathedral Park	Eldorado	6,400	0	48.2	.....	72	2†	30	2†	42	0.44	.....	0.24	0	4	15	7	9	s.	Carl Fluegge.
Tahoe	Placer	6,240	2	45.0	.....	74	24†	16	1	45	1.66	.....	1.10	0	4	24	4	3	w.	R. M. Watson.
Truckee	Nevada	5,819	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.

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 May, 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																		.25	.41	T.												0.66
Cokeville	do	.06						T.						T.		T.	.02	T.	.08	.14	T.				T.		T.	T.		T.	.12		0.42
Evanston	do	.28	T.											T.			T.	.06		.05						.03							0.42
Idaho.																																	
Geneva	Bear	.05	.11								.14								.03	.09											.02	.07	0.51
Grace	do	T.												.20					.30	.25				.04									0.79
Paris	do																																
Weston	do	.05												.16					.21	.56	.15			.03									1.16
Utah.																																	
Alpine	Gt. Salt Lake																			.45													0.45
Beaver	Sevier Lake																																
Black Rock	do																																
Brigham	Gt. Salt Lake		.15											.06	.08	.02			.06	1.38	.02	.02				.02					.06		1.87
Burrville	Sevier Lake	.01												.01																			0.02
Castle Rock	Gt. Salt Lake	.10	.03											.05			T.	.05		.20							T.	T.					0.43
Cedar City	Desert	.07	.02																										T.	.08			0.17
Center	do	.04																T.	T.	.10	.10												0.24
Clarkston	Gt. Salt Lake	.20											.20						.30		.40												1.10
Corinne	do	T.												.25					1.05											T.			1.30
Deseret	Sevier Lake	T.																	.08									T.		T.			0.08
Elberta	Gt. Salt Lake													.01						.01	.03							.22					0.32
Enterprise	Desert																																
Erekson	do	*	.15											.05						.45											.02		0.67
Farmington	Gt. Salt Lake																T.		.03	.07	.05												0.78
Fillmore	Sevier Lake	.01																	.48								T.			T.			0.49
Garland	Gt. Salt Lake	.05											.09					.20	.72	.09							.01						1.16
Garrison	Sevier Lake																													.50	T.		0.50
Government Creek	Desert	.33	T.											.01				T.	T.	.33	.05									.10			0.82
Granger	Gt. Salt Lake																																
Grantsville	do	.40																		.23													0.63
Grouse Creek	Desert										T.								.84	.10	.07			.21	.09	.14	T.						1.45
Heber	Gt. Salt Lake	T.												.20						.12	T.						T.	T.					0.32
Henefer	do							T.						.05			T.	T.		.30							T.	.02	T.	.05			0.42
Hooper	do																																
Ibex	Desert																																
Iosepa	do	.16																		.50	.05												0.71
Joy	do	T.	.20																												.20		0.40
Junction (near)	Sevier Lake																			T.							T.	T.					T.
Kanosh	do	.04																		.47													0.51
Kelton	Gt. Salt Lake																		*	.70		T.				T.							0.70
Lemay	Desert																		.60		.15							T.	T.				0.75
Levan	Sevier Lake	.13																		.14													0.27
Logan	Gt. Salt Lake	.10											.15			T.		.17	.75						.08							T.	1.25
Low	Desert	T.																	T.	.25										.25			0.50
Lucin	do																																
Manti	Sevier Lake	.05	.04																	.34	.04						T.	.09					0.56
Maple Creek	Gt. Salt Lake	.45												.14				T.		.24	.14						T.	T.	T.				0.97
Marion	do																																
Marysvale	Sevier Lake																																
Meadowville	Gt. Salt Lake	.05												T.						.20	T.								T.		.30		0.55
Midlake	do	T.																	T.	.75	T.												0.75
Midvale	do	.01											.08																				0.09
Milford	Sevier Lake																																0.00
Millville	Gt. Salt Lake	.11												.18			.05		.18	.78	.02						T.	T.					1.32
Mills	Sevier Lake	.05																		.03								T.		T.			0.08
Minersville	do																			.25							11						0.36
Modena	Desert	.34																	.14										.21	.15			0.84
Morgan	Gt. Salt Lake																			.30													0.30
Moroni	Sevier Lake	T.	T.				T.		T.				T.	T.				T.	T.	.23	T.						T.	.06					0.29
Mosida	Gt. Salt Lake	.10																			.05												0.15
Nephi (near)	do																																0.00
Newcastle	Desert	.07	.05																											.33			0.45
Oak City	Sevier Lake																																0.00
Ogden	Gt. Salt Lake	T.												.02						.67	T.							.28					0.97
Panguitch	Sevier Lake																																0.02
Park City	Gt. Salt Lake								.05							.01								.01			.01						0.06
Park Valley	Desert																		.63	.12				.20	.16					T.			1.11
Parowan	do		.20											.05				.10															0.35
Payson	Gt. Salt Lake	.45												.12				T.	T.	.30									T.				0.87
Pelican Point	do																																0.00
Pine Cliff Ranch	do																																0.00
Pinto	Desert	.05																	.03											.35	.11		0.54
Promontory	Gt. Salt Lake																		.65											1.21			1.86
Provo	do												.05							.20													0.25
Randolph	do																																0.00
Revier	do													.05						.35								.06					0.46
Richfield	Sevier Lake																																0.00
Richmond	Gt. Salt Lake	.31											.16	.11		.11		.19	.85	.03	.03									T.			1.79
Sahara	Desert	.20												T.						T.										20	T.		0.40
Saltair	Gt. Salt Lake	.05												.07					.37								T.	.03					0.47
Salt Lake City	do	.02												.08				T.	.21	.26								T.					0.57
Scipio	Desert	T.	.25				T.						T.							.40						.15							0.80
Showell	do														.06				.45	.25													0.76
Silver City	do																																0.00
Smyths	do																							.30					T.				0.30
Soldier Summit	Gt. Salt Lake	T.																		.33	T.						.07	.18					0.58
Spanish Fork	do	.64	.02											.14						.50							.01	.01					1.32
Strawberry Tunnel, west	do	.38																.01		.39	.04						T.	.13					0.95
Thistle	do	.20																T.	T.	.40	T.						T.	T.					0.60
Tooele	do	.56																.06	T.	.38							T.	T.	T.				1.00
Tremonton	do																		.26	.80	.09	.06				.02							1.17
Utah Lake Pumping Station	do		.02															.31								.04				.02			0.39
Vernon	Desert	.10	T.											T.					T.	T.	.35	.09					T.			.07				0.61
Wendover	do																			.06											.18		0.24
Whiskey Creek	do																		T.									T.					T.
Winder	Sevier Lake																							.01			.02						0.03
Woodruff	Gt. Salt Lake													T.						T.					.30					.35			0.65

TABLE 2.—*Daily precipitation for May, 1913. District No. 10, Great Basin*—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	S.E.drainage										.05		.20						.07						.03							0.35
Bear Valley	do									.09	.02	.08	.05	T.		.04		.07	.08	.06					.15			.04				0.68
Burns	do							T.		T.	T.	T.	.02			T.	T.	.11										.12				0.25
Burns Mill	do							.02		.03		.01	.04					.15											.02			0.27
Christmas Lake	do									T.	.29		.35					.04	.07									T.	.33			1.08
Cliff	do										.10		.58																T.	.17		0.85
Diamond	do							.22		T.			T.						.47									T.	.56			1.25
Embody	do								.02	.09	.12	.20	.21			T.	T.	.03										.42	.01			1.10
Fort Rock	do							T.	T.	.06	.08	T.	.42		T.		T.	.03										.25				0.84
Paisley	do																															
Seneca	do	.08					.04		.05		.10		.10					.06	.02									T.	T.			0.45
Silver Lake	do								.29				.45						.06									.14	.02			0.96
Valley Falls	do												.63	T.					.53	.05							T.	1.25	T.			2.46
California.																																
Bijou	Truckee									T.	T.								.86								.05	.04	.77		T.	.07	1.79
Boca	do	.10							.50																1.00							1.60
Bridgeport	East Walker																		.40								.03		.38	.36	.37	.05	1.59
Cathedral Park	Truckee									.04								.24									.06				.10		0.44
Deerpark	do									.73								*	2.00	.30								.23	T.	T.	T.	T.	3.26
Hobart Mills	do									.07								.06	.79									.01	.68	.05	.16		1.82
Lundy	East Walker																		.75													.60	1.35
McKinney	Truckee																															
Markleeville	East Carson							T.										T.	.67								.08	T.	.12	.08		.17	1.12
Shields Ranch	East Walker						.19	T.											.37				.07			T.		.26			.13	1.02
Silver Creek	East Carson							T.										.09	.80								.10		.10			.10	1.19
Tahoe	Truckee																		1.10	.08									.35	T.	T.	.13	1.66
Tallac	do						T.		T.	.10								T.	1.10							T.	T.	.70		T.	.25	2.15
Truckee	do																															
Woodfords	West Carson																	*	1.28								.18	.12	T.	.20	.15	.08	2.01
Nevada.																																
Arthur	Humboldt																		.50											*	.50		1.00
Austin	Reese																															
Battle Mountain	Humboldt																	.15	.15													.11	0.41
Beowawe	do																															
Carlin	do																		.35	.20					.50				.05	*	.45		1.55
Cherry Creek	do	.02												T.				.01	.58	.05	.02		T.				.04			.36	.54	.04	1.66
Clover Valley	do																															
Columbia	Desert																		.10								T.		.18	1.02	.38	.12	1.80
Dry Farm	Humboldt																		.89	.05	T.			T.			T.			.02	.30		1.26
Elko	do																		.37										.10	.80			1.27
Eureka	do													T.				T.	.77							T.				.48	.91	T.	3.16
Fallon	Carson																	T.	.12								T.	.02	1.69		.12	.20	2.15
Fernley	Truckee																	T.					T.				T.	.65	1.55		.43	.71	3.34
Gardnerville	Carson						T.												T.								.43		.66			.11	1.20
Gerlach	Desert																											.30				.40	0.70
Geyser	Humboldt																															
Glenbrook	Truckee																															
Golconda	Humboldt																		.35										.40				0.75
Halleck	do																															
Hawthorne	Desert																															
Hylton	Humboldt																		.88				.04							.34	.75		2.01
Jean	Desert																															0.00
Lahontan	Carson																	.07					T.				T.	1.74	.05	.04	.27	T.	2.17
Lewers Ranch	Truckee																	T.	1.35								*	.28	.50				2.13
Lida	Desert																	T.	.02										.53	1.50	.27	.21	2.53
Lovelock	Humboldt																17										T.		.62		.60	.30	1.69
McDermit	do																											.26	.57	.02	.02		0.87
McGill	do	.02												T.					.42										T.	.32	.02		0.78
Metropolis	do																		T.	.67	T.			T.	T.				T.	T.	.29		0.96
Mill City	do							.20											.25								T.	.07	T.		T.	0.52
Millett	Reese																	.28							T.					1.02		.42	1.72
Mina	Desert																											.31	.70	.58			1.59
North Fork	Humboldt																		.16							.02				.15	.05	0.38
Oasis Ranch	Desert																												1.35	.22	.26	1.83
Potts	Reese																		.15							T.	T.		T.	3.00	.25	T.	3.40
Quinn River Ranch	Humboldt							T.																				.03	.84		.05	.26	1.18
Rebel Creek	do							T.					T.	.02		T.	T.		.30									.08	.18	T.	T.	.33	0.91
Reno	Truckee						T.	T.		T.			T.					.13	.01						T.		.03	.14	.41		.09	.19	1.00
Rose Creek	Humboldt																		.47										.10		.18		0.75
Smith	West Walker								T.									.08					T.	T.	.05		.16	T.	1.12		.10	.10	1.61
Soda Lake	Carson																	T.	.15				T.					.06	1.53	T.	.03	.30	2.07
Spooners Ranch	Truckee																	T.	.40	T.							T.	.30	T.	.35	.10		1.15
Sweetwater	East Walker																															
Tecoma	Humboldt																		.04	.52										.05			1.02
Tonopah	Desert																	.02	.02										.01	.85	.19	.02	1.11
Wells	Humboldt																		.30						.20				*	.40			0.90
Willow Point	Little Humboldt.																															
Winnemucca	Humboldt							T					.01					T.	.35				T.				T.	T.	.05	.01	.03	T.	0.45

* 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.

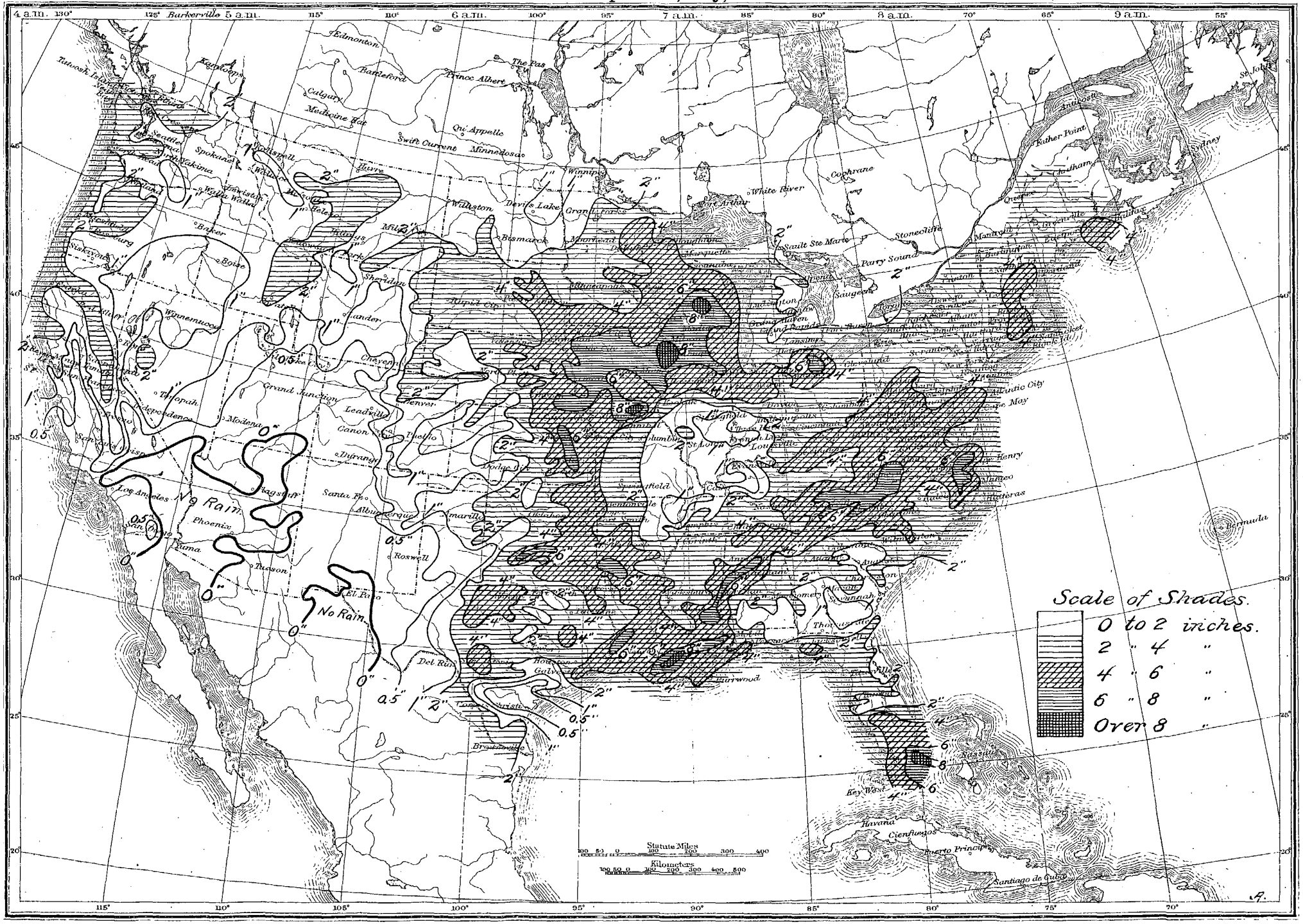
TABLE 3.—*Maximum and minimum temperatures for May, 1913. District No. 10, Great Basin.*

Date.	Oregon.		Nevada.																							
	Burns.		Cherry Creek.		Elko.		Eureka.		Fallon.		Jean.		Lovelocks.		Millett.		Mina.		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....	54	29	44	27	33	13	42	21	54	27	92	48	57	22	51	19	50	32	.....	.....	52	29	65	20	46	22	53	20
2....	61	33	50	18	40	8	46	15	58	21	91	46	59	23	50	20	56	27	.....	.....	58	27	60	5	50	29	56	23
3....	65	31	59	27	48	22	61	20	70	29	91	48	71	29	65	20	65	38	70	25	70	32	65	9	61	33	66	22
4....	75	35	66	32	71	34	70	31	75	40	90	43	77	35	72	26	73	41	75	27	74	40	65	15	69	46	72	35
5....	75	39	73	35	76	36	75	36	82	39	90	42	82	35	77	31	83	45	81	30	78	42	70	17	74	51	79	40
6....	87	44	75	43	73	35	76	42	83	43	87	43	85	43	79	32	83	47	86	33	81	44	77	21	74	53	83	43
7....	80	32	75	39	78	30	73	43	80	49	88	47	80	40	75	34	80	42	82	52	73	51	80	26	70	51	78	49
8....	79	36	71	40	90	29	74	38	76	40	90	47	79	40	74	32	79	45	74	45	64	42	80	29	70	45	75	45
9....	76	39	73	46	94	31	75	41	76	42	92	47	78	40	75	39	81	48	70	46	61	46	80	30	70	47	74	47
10....	64	26	72	44	78	30	74	45	73	44	93	46	75	45	76	38	79	46	69	44	60	42	78	24	72	47	68	44
11....	62	30	70	36	76	30	71	33	66	31	90	43	69	34	73	31	78	45	68	30	67	31	80	25	72	38	66	32
12....	59	27	68	40	75	30	71	42	65	41	88	43	70	39	70	42	70	42	65	36	55	37	75	23	71	37	62	42
13....	60	27	56	35	70	24	56	29	65	32	88	43	63	37	62	33	67	46	64	35	64	33	74	22	55	32	62	39
14....	64	30	65	25	69	25	67	24	72	34	89	45	67	33	70	24	72	37	74	20	70	37	72	12	63	40	70	30
15....	66	33	69	35	70	25	72	33	79	40	90	46	72	34	75	40	75	46	72	45	72	40	73	22	71	45	72	41
16....	69	39	68	43	70	40	74	36	81	46	93	42	65	33	79	42	80	48	70	47	77	44	72	30	73	46	70	46
17....	59	34	73	37	78	25	70	42	74	42	90	42	74	36	76	37	80	48	.....	.....	67	44	74	24	76	53	72	39
18....	58	30	60	37	70	32	60	36	68	47	91	43	76	38	65	43	72	42	.....	.....	57	42	78	35	59	39	56	39
19....	62	34	68	38	68	24	58	31	69	37	91	44	75	37	85	37	70	40	.....	.....	68	37	76	29	62	36	64	32
20....	77	37	64	38	69	33	67	38	74	47	92	47	78	38	72	37	75	42	73	40	71	44	76	32	70	48	70	44
21....	80	40	70	36	82	25	74	38	83	44	93	55	81	39	80	39	86	43	82	31	82	48	77	29	77	50	79	40
22....	86	45	77	44	87	32	80	42	90	47	98	60	88	40	83	40	89	44	89	35	85	51	76	25	81	58	87	47
23....	80	45	82	47	74	38	81	48	90	48	97	63	93	43	85	40	90	50	90	44	84	49	81	39	81	57	88	47
24....	81	42	81	52	75	42	81	52	89	57	95	61	92	58	84	47	89	55	88	49	82	54	80	39	81	56	86	55
25....	85	44	83	52	74	35	83	47	91	47	93	59	92	47	84	41	96	54	88	44	86	47	80	33	81	56	89	46
26....	89	42	78	52	86	40	80	54	91	50	95	59	94	50	84	53	89	53	91	45	85	52	81	35	77	58	90	46
27....	72	45	77	45	74	41	76	53	79	55	97	60	82	47	80	47	82	42	70	48	69	47	87	40	71	51	79	53
28....	73	42	69	50	73	35	71	47	63	39	95	58	70	44	69	50	76	39	66	45	57	42	85	34	55	36	66	47
29....	67	40	63	45	68	40	63	36	70	49	95	58	74	47	60	40	62	44	71	43	70	49	84	40	46	39	73	44
30....	75	45	64	38	60	32	58	36	73	45	96	59	80	45	62	35	63	40	82	49	74	48	82	37	56	41	78	51
31....	88	47	69	40	64	32	66	35	72	45	96	60	79	44	67	35	68	43	80	46	73	45	80	39	59	44	77	43
Mns..	71.9	36.8	68.8	39.2	71.4	30.6	69.2	37.5	75.2	41.8	92.1	49.9	76.7	39.2	72.9	36.3	76.1	43.7	76.5[e]	40.0[e]	70.5	42.5	76.4	27.1	67.5	44.6	72.9	41.0

Date.	Wyoming.				Weston, Idaho.		Utah.																			
	Border.		Evanston.				Corinne.		Fillmore.		Government Creek.		Meadowville.		Modena.		Deseret.		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.....	44	29	43	20	49	31	51	31	47	32	45	31	47	30	43	30	46	34	44	29	53	28	54	30	47	35
2.....	46	26	41	14	52	26	53	30	54	29	47	22	47	25	51	32	57	25	54	28	52	26	56	25	51	35
3.....	51	15	49	20	59	21	58	25	62	27	56	25	54	20	59	28	64	21	62	27	58	25	66	21	57	34
4.....	57	32	56	19	69	32	65	28	74	36	64	35	60	38	70	29	73	25	64	41	69	29	72	28	62	43
5.....	62	22	63	27	72	29	70	35	80	37	71	36	67	32	74	33	78	30	73	35	76	37	78	28	70	43
6.....	72	25	69	28	78	32	75	36	85	47	79	42	73	30	76	37	83	35	80	40	78	42	87	34	79	50
7.....	73	29	67	32	80	37	80	37	84	59	77	48	75	35	71	35	82	45	82	46	75	40	85	41	81	56
8.....	73	35	68	36	79	40	79	50	85	57	76	46	72	37	70	35	79	45	79	44	74	42	82	40	78	58
9.....	68	34	70	33	79	37	77	45	86	42	77	49	77	34	72	40	82	45	80	45	76	39	85	35	79	54
10.....	64	36	69	35	77	36	72	38	81	47	76	46	67	35	73	35	80	44	79	44	77	37	83	38	76	59
11.....	70	35	64	31	70	48	68	35	81	46	71	39	70	33	74	36	78	41	69	46	77	38	77	40	67	52
12.....	68	36	66	35	67	38	65	38	78	51	68	41	74	33	72	40	79	42	69	41	76	39	75	39	67	51
13.....	61	38	60	32	65	38	67	30	65	38	68	33	56	38	59	35	70	38	60	40	64	36	81	30	57	44
14.....	56	27	53	20	64	28	70	25	64	35	60	28	59	28	64	28	68	30	61	30	65	28	75	27	60	40
15.....	61	29	58	18	66	34	70	28	80	37	72	40	65	32	72	33	78	31	69	42	73	34	77	32	69	46
16.....	70	29	57	40	77	46	66	49	83	41	70	41	60	43	76	40	79	41	68	48	79	42	77	32	64	54
17.....	70	34	65	30	75	39	72	42	84	43	77	41	73	34	76	43	83	39	64	40	74	48	83	36	75	50
18.....	64	45	67	35	70	45	69	38	62	40	79	40	71	45	67	45	83	47	74	51	63	42	75	45	71	45
19.....	53	35	57	33	50	37	71	37	75	41	53	38	51	34	63	41	70	40	63	37	72	34	59	35	53	39
20.....	54	32	54	31	54	38	70	38	81	45	64	37	57	35	71	34	71	39	64	38	77	44	67	40	64	44
21.....	62	26	64	25	68	32	69	39	83	43	68	36	65	30	78	42	77	42	70	36	84	43	73	36	67	47
22.....	72	26	72	26	77	36	71	37	88	44	79	39	71	33	80	45	86	38	78	40	84	48	83	32	76	48
23.....	75	32	75	35	80	41	80	34	90	51	84	49	78	39	81	44	87	46	85	46	84	43	90	41	83	53
24.....	76	36	77	42	77	46	82	55	86	54	84	55	78	41	79	48	87	57	84	52	82	46	91	46	84	61
25.....	75	50	74	45	83	48	80	59	83	60	84	49	80	48	82	51	91	54	84	55	82	44	91	52	83	60
26.....	80	36	78	42	87	46	87	51	85	60	87	54	76	48	82	49	85	51	89	48	83	54	90	45	89	61
27.....	75	37	72	41	84	47	86	50	86	55	83	48	82	41	79	44	87	54	85	54	80	46	86	45	84	62
28.....	78	42	74	42	83	48	80	56	86	51	80	46	74	40	69	44	82	47	84	60	76	44	85	53	83	65
29.....	78	44	73	39	82	55	83	59	66	38	75	41	79	44	53	39	70	42	76	59	62	32	80	46	73	59
30.....	76	36	75	42	80	51	85	50	82	45	76	42	75	50	67	35	82	41	79	49	69	39	83	39	82	54
31.....	74	35	74	36	82	42	86	49	89	45	80	42	72	40	7	42	83	43	85	54	69	43	86	39	83	58
Mns...	66.4	3.0	64.6	2.0	72.1	38.8	72.8	40.5	77.9	44.4	71.9	40.6	68.0	36.3	70.2	38.5	77.4	40.6	72.8	4 .4	73.0	39.1	78.5	37.1	71.4	50.3

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

Total Precipitation, May, 1913.



Departure of the Mean Temperature from the Normal, May, 1913.