CLIMATOLOGICAL DATA FOR SEPTEMBER, 1911.

DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL SUMMARY.

Autumn conditions were apparent somewhat earlier than usual this year, a cool September having followed a cool August. Leaves turned to autumn tints and began falling earlier than usual, the wind movement was a little harder than in the month previous, frosts were earlier as a rule, and consequently the growing season was terminated sooner than is generally expected.

In Summit County, in the Utah area, maple leaves began to show their fall colors as early as the 8th, and the growing season was ended earlier in most of the counties occupying the mountainous portion of this State, but the average time of the occurrence of killing frost appears to have been about the usual date.

In the Nevada area heavy to killing frosts occurred earlier than usual, being general in the middle of the month, and the growing season, consequently, was brought to an early close.

The precipitation was much heavier than usual except in the California and Nevada areas. Most of the rain for the month in the Utah area fell during the last 4 days, but as the ground was dry and absorbed the greater part of the moisture, no conspicuous flood damage was reported. These rains were reported beneficial, though some alfalfa was damaged in the middle and southern portions of this area.

Snow was observed on the higher mountain peaks, although none fell at the observation stations.

The average number of rainy days was 4; clear days, 16; partly cloudy days, 7; and cloudy days, 7.

TEMPERATURE.

The mean temperature for the Great Basin, 57.1°, was 1.6° below normal. While the temperature for August differs slightly from that of July, September is usually decidedly lower than August. There is, of course, a wide range of temperature in the Great Basin, due to its peculiar topography, being composed for the most part of an elevated plateau traversed by numerous mountain ranges. This is evidenced by the fact that the mean monthly temperature at Wendover, Utah, was 67.5°, which was the highest in the district; while at Cliff, Oreg., the mean was 47.8°, which was the lowest. It is very probable that in the southern portion of the Nevada area higher mean temperatures were experienced, and that on the higher mountains lower temperatures would have been recorded had observers been stationed there.

The highest mean temperatures for the month occurred in the Utah and southern portions of the Nevada areas, while the lowest occurred in the Wyoming and Oregon areas. Plus departures occurred, as a rule, along the western slope of the Wasatch Mountains, in the Utah area south of Salt Lake City, and minus departures in the remaining portions of the district.

The month began with high temperatures over the district, the highest for the month being recorded generally on the 1st. At Jean, Nev., 104° was recorded on the 1st, which was the highest for the district. The weather continued warm in the Utah area until the middle of the month, but at the close of the second decade killing frosts were frequently reported. In the Nevada area the temperature fell after the 5th and remained low until the close of the month. The coldest weather of the month centered around the 18th, when the lowest temperatures were usually recorded. The lowest for the district was 10° on the 19th at Halleck, Nev.

It is to be expected that the temperatures of stations at or near large bodies of water will be influenced by them, and that at this time of the year the average temperature of stations near water will be higher than that of stations inland, provided all other conditions are equal.

The records for the stations Lemay, Utah, about 15 miles west of Great Salt Lake, and Midlake, on the Lucin cut-off, about in the center of the lake, illustrate the above point. At Lemay the monthly mean temperature was 62.6°; mean maximum, 75.4°; and mean minimum, 49.7°; while at Midlake the mean monthly was 66°; mean maximum, 71.3°; and mean minimum, 60.7°.

The monthly mean temperature at Lemay was 3.4° lower, the mean maximum was 4.1° higher, and the mean minimum was 11° lower than those of Midlake. These figures show the influence of the lake in modifying to a considerable extent the climate at Midlake. The mean temperature of the station on the lake was higher than that of the inland station, exhibiting the slowness with which water gives up its heat. The afternoon temperatures were, on the average, higher and the early morning temperatures were lower at the land station, showing how quickly land heats up and cools off compared to water. Again, the record at the inland station showed greater extremes than did the lake station. The highest temperature at Lemay was 86° and the lowest was 39°, making a monthly range of 47°; while at Midlake the highest was 82° and the lowest 50°, making a monthly range of only 32°.

PRECIPITATION.

The precipitation for the district averaged 1.20 inches, being somewhat heavier than that of September last year, and about 0.49 inch above normal. The least amounts occurred in the western and southern portions of the Nevada area and were generally less than the normal, while in the remaining portions of the district rainfall was heavy and generally much more than normal.

In the Utah area the greater number of stations which reported over 2 inches lie in the mountainous district of the southern part, but heavy rain fell in the northern part, the monthly amounts being in all cases over 1 inch, and in a few cases over 2 inches. The greatest monthly amount, 3.63 inches, was recorded at Cedar City, Utah.

In the Nevada area the precipitation in many localities was the lowest on record. There were several stations in the California and Nevada areas where no rain fell.

Precipitation fell at irregular intervals throughout the month, but in the Utah, Wyoming, and Idaho areas the greater part of the rain fell during the last decade, with the heavier amounts on the last two days of the month. The greatest 24-hour amount was 2.88 inches, at Cedar City, Utah.

TABLE 1.—*Climatological data for September, 1911. 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	Uinta	6,085	10	51.6[a]	0	85	11†	16	18	51[a]	1.19	+ 0.18	0.42	0	5	15[a]	7[a]	7[a]	w.	S. W. Condron.
Cokeville	do	6,204	2	50.3[a]		87	1	15	18	59[a]	0.96		0.37	0	7	16[a]	7[a]	6[a]	w.	E. J. Tuckett.
Evanston	do	6,860	14	52.0	− 1.0	83	1	20	18	44	1.26	+ 0.32	0.60	0	6	17	8	5	w.	Frank Tucker.
Idaho.																				
Geneva	Bear Lake		3								0.43		0.18	0	5	27	2	1		F. W. Boehme.
Grace	Bannock	5,400	5	57.5		93	1	25	18	49	2.01		0.86	0	8	15	11	4	s.	Harold Cole.
Paris	Bear Lake	5,946	17	54.0	− 0.9	84	4	25	8†	50	1.12	+ 0.21	0.29	0	8	19	11	0	w.	John Norton.
Weston	Oneida	4,460	13	57.2	− 0.8	89	1†	25	18	47	1.69	+ 0.83	0.80	0	4	15	3	12	sw.	Wm. T. Chatterton.
Utah.																				
Alpine	Utah	4,900	14								1.60	+ 0.32	1.30	0	2	18	5	7		T. F. Carlisle.
Beaver	Beaver	6,000	8	62.4		86	1	32	18	38	3.53		2.17	0	6	12	15	3	sw.	James Connell.
Black Rock	Millard	4,872	11	60.9		95	1	24	18	59	1.68	+ 0.52	1.13	0	2	16	6	8	s.	W. D. Livingston.
Burrville	Sevier		0	55.4		82	1	28	6†	47	2.31		1.10	0	4					F. R. Curtis.
Castle Rock	Summit	6,244	8																	David Moore.
Cedar City	Iron	5,750	6	64.6		91	1	34	18	40	3.63		2.88	0	5	15	5	10	se.	Parley Dalley.
Center	Tooele		0	61.2		93	2	25	19	52	1.03		0.62	0	4	17	9	4	s.	L. C. Peterson.
Clarkston	Cache		0								1.91		1.00	0	6	7	14	9		W. J. Griffith.
Corinne	Boxelder	4,240	41	65.0	− 0.3	102	1	33	18†	57	0.88	+ 0.22	0.88	0	1	13	6	11		A. C. Murphy.
Deseret	Millard	4,541	17			93	1				1.28	+ 0.50	0.70	0	3	15	6	9	s.	Samuel W. Western.
Enterprise	Washington	4,270	3								3.24			0	4					John Day.
Erekson	Tooele										0.96		0.75	0	4					N. W. Erekson.
Fairfield	Utah	4,866									1.25		0.75	0	3	19	7	4	sw.	W. Harden Ashby.
Farmington	Davis	4,267	11	61.1	+ 1.4	90	10	32	18	50	0.86	− 0.38	0.35	0	6	16	8	6	sw.	Charles Boylin.
Fillmore	Millard	5,100	21	65.8	+ 4.3	101	1	33	18	50	1.63	+ 0.68	0.90	0	5					J. J. Starley.
Frisco	Beaver	7,318	17	60.0	− 8.1	93	1	29	6	49	1.56	+ 0.87	1.52	0	2					Essen Nordberg.
Garrison	Millard		8																	E. M. Smith.
Government Creek	Tooele	5,277	11																	Walter James.
Granger	Salt Lake		0	57.8[f]		85	4	35	18	36	1.26		0.50	0	6					G. E. Greene.
Grantsville	Tooele		2								1.24		0.43	0	5	18	6	6		J. C. Woodmansee.
Grouse Creek	Boxelder										1.40		1.23	0	2	11	13	6	sw.	Philip Paskett.
Heber	Wasatch	5,606	18	56.0	+ 0.8	90	1	24	18	54	1.89	+ 0.91	0.72	0	9	17	4	9	s.	John Crook.
Henefer	Summit	5,301	12	55.4	+ 0.8	90	2	20	20	61	1.88	+ 0.74	0.55	0	9	13	7	10	w.	William Brewer.
Hooper	Weber	4,436									1.26		0.67	0	4					T. M. Jones, jr.
Ibapah (near)	Tooele	7,500	6																	J. S. Lawton.
International	do	5,370									1.40		0.76	0	6	11	12	7	se.	I. S. R. Co.
Iosepa	do																			Geo. K. Hubbell.
Joy	Juab			63.4		90	1	32	18	40	1.06		0.53	0	3	14[c]	7[c]	6[c]	s.	Samuel Hagans.
Kanosh	Millard	5,250	3								1.44		0.74	0	4					Geo. Crane.
Kelton	Boxelder	4,230	33	58.6	− 2.5	87	11	26	18†	45	0.75	+ 0.34	0.35	0	4	0	26	4	ne.	F. W. Klock.
Lemay	do			62.6		86	2	39	18	39	0.70		0.45	0	2	13	14	3	s.	Agent S. P. Co.
Levan	Juab	5,010	21	61.7	+ 1.6	91	1	32	18	46	1.12	− 0.14	0.62	0	4	18	2	10	sw.	William Brown.
Logan	Cache	4,507	20	60.6	− 0.8	89	1	35	18	39	1.92	+ 0.85	0.90	0	6					Utah Ex. Station.
Low	Tooele			66.6		102	2	39	28	52	1.18		0.75	0	4	17	3	10	s.	T. G. Morris.
Lucin	Boxelder	4,504	7	58.6		91	1†	31	18	48	0.50		0.45	0	2	9	16	5		C. J. Burke.
Lund	Iron	5,086		60.1		88	11	32	19	49	1.93		1.28	0	2	17	11	2	sw.	Job T. Hall.
Manti	Sanpete	5,575	17	60.0		87	1	30	7	48	2.03	+ 0.89	0.88	0	7	7	3	20		J. M. Anderson.
Maple Creek	Utah										1.84		0.71	0	8	16	10	4		Lewis W. Gillilian.
Marion	Summit	6,750	7								2.16		0.59	0	10	9	4	17	s.	Jas. Woolstenhulme.
Marysvale	Piute	6,180	12	59.9	+ 2.5	90	2	30	7†	53	2.33	+ 1.02	1.30	0	8	7	8	15	sw.	John W. Henry.
Meadowville	Rich	6,200	12	53.6	− 0.3	83	11	25	18†	43	1.11	+ 0.06	0.65	0	4	18	3	9	w.	J. S. Moffatt.
Mercur	Tooele																			F. H. Franklin.
Midlake	Boxelder			66.1		82	2	50	17	24	0.92		0.67	0	3	19	0	11		Agent S. P. Co.
Milford	Beaver	4,962	7	60.2		96	4	24	29	66						24	1	5		H. F. Aller.
Millville	Cache	4,848	16								1.18	+ 0.16	0.71	0	4	11	16	3	s.	Fred Yeates.
Minersville	Beaver	5,070	14								2.98	+ 2.43	1.40	0	4					George Roberts, sr.
Modena	Iron	5,479	11	60.0	− 0.2	89	1	34	19	45	1.76	+ 0.64	1.19	0	6	14	8	8	sw.	U. S. Weather Bureau.
Morgan	Morgan	5,068	8																	W. Visick.
Moroni	Sanpete	5,519	3	61.5		86	1†	35	18	38	1.62		0.75	0	5	11	5	14	sw.	B. F. Eliason.
Mosida	Utah										0.83		0.51	0	3	13	11	6	ne.	Roy P. Curtis.
Mount Nebo	do	4,650	10	65.9[b]	+ 3.0	94	2	33	19	50[b]	1.30	+ 0.58	0.65	0	3	14[b]	4[b]	4[b]	s.	D. C. Walkey.
Nephi (near)	Juab		8																	S. Boswell.
New Castle	Iron																			T. W. Jones.
Oak City	Millard	4,900	7																	Peter Nielson.
Ogden	Weber	4,310	10																	A. Van De Graff.
Park City	Summit	7,800	14	53.0	− 1.3	84	3	25	18	43	3.30	+ 2.44	1.30	0	8	11	11	8		Gertrude Evans.
Park Valley	Boxelder										0.74		0.63	0	3	16	3	11	nw.	Thomas Stirland.
Parowan	Iron	5,970	20	58.0	− 2.1	87	3	35	6	45	3.53	+ 2.49		0	4	22	0	8		Scott Matheson.
Payson	Utah	4,637	8								1.29		0.50	0	6	14	6	10	sw.	D. L. Coombs.
Pelican Point	do										1.10		0.71	0	6	16	8	6		B. M. Mendenhall.
Pine Cliff Ranch	Summit										2.00		0.45	0	7					L. E. Leavitt.
Pinto	Washington	5,907	15	56.6[h]	+ 0.5	85[h]	1	28[h]	21	46[h]	3.55	+ 2.17		0	4	14[e]	8[e]	3[e]	s.	J. H. Harrison.
Promontory	Boxelder	4,913	40								2.20	+ 1.60	1.00	0	3					F. C. Houghton.
Provo	Utah	4,532	23	61.0	+ 0.5	94	2	26	18	54	1.63	+ 1.05	1.00	0	5	10	18	2	s.	James A. Oliver.
Randolph	Rich	6,442	9								0.72		0.42	0	4	24	0	6	sw.	William Rex.
Revier	Salt Lake																			E. L. Terry.
Richfield	Sevier	5,350	21	61.2	+ 2.7	90	11	32	18†	50	1.77	+ 1.25	1.10	0	4	17	5	8		Joseph J. Jensen.
Saltair	Salt Lake	4,220	9	65.0		86	11	42	19	24	1.15		0.37	0	6					E. J. Bench.
Salt Lake City	do	4,360	38	64.7	− 0.4	92	2	42	18	35	1.63	+ 0.78	1.11	0	6	15	7	8	se.	U. S. Weather Bureau.
Scipio	Millard	5,260	18	60.4	+ 1.0	90	1†	23	16†	57	1.45	+ 0.45	0.79	0	4	15	4	11	sw.	Thomas Memmott.
Silver City	Juab	6,127	2								1.39		0.81	0	3	11	19	0	sw.	J. L. Stark.
Spanish Fork	Utah	4,585	2	65.2		96	1	37	17†	45	1.25		0.50	0	7	11	10	9		W. P. Shippee.
Strawberry Tunnel	do	7,650	6	55.0		83	1	23	18	47	2.42		0.65	0	12	11	13	6		F. W. Cater.
Thistle	do	5,075	20	58.4	− 0.3	93	1†	21	18†	62	1.08	− 0.19	0.50	0	3	11	9	10	sw.	John Thorgeirson.
Tooele	Tooele	4,900	16	64.5	+ 0.9	91	2	36	19	45	1.11	+ 0.24	0.35	0	6	9	0	21	s.	E. A. Bonelli.
Utah Lake Pumping Station.	Utah	4,500	7																	W. A. Knight.
Vernon	Tooele										1.33		0.75	0	4	17	7	6	sw.	Glynn Bennion.
Wendover	do			67.5		92	1†	38	7	48	0.56		0.41	0	2	12	12	4	w.	J. S. Cooper.
Whiskey Creek	Millard										1.40		0.50	0	4					Geo. Stevens.
Woodruff	Rich	6,500	13	50.3	− 1.3	86	2†	15	20†	63	1.00	+ 0.72	1.00	0	1	11	14	5	sw.	J. Sidney Pussey.

TABLE 1.—*Climatological data for September, 1911. 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.		
Oregon.																				
Burns	Harney	4,157	20	51.4	.....	90	1	19	16	48	0.55	.....	0.30	0	5	14	10	6	.....	J. C. Welcome, jr.
Cliff	Lake	4,300	4	47.8	.....	84	1	13	18	58	1.31	.....	0.35	0	8	10	9	11	nw.	John C. Green.
Paisley	do	4,500	8	53.8[a]	.....	81[a]	1	35[a]	17	34[a]	1.31	.....	0.62	0	3	16[b]	7[b]	5[b]	w.	E. C. Woodward.
Silver Lake	do	4,700	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. W. Charles.
California.																				
Tahoe	Placer	6,240	1	48.2	.....	76	1	24	20	43	T.	.....	T.	T.	0	29	0	1	w.	R. M. Watson.
Truckee	Nevada	5,819	40	51.2	− 4.7	76	1†	24	19	46	0.00	− 0.26	0.00	0	0	10	19	1	se.	Southern Pacific Co.
Nevada.																				
Austin	Lander	6,594	22	57.2	− 1.8	87	1	26	26	42	0.00	− 0.51	0.00	0	0	26	2	2	sw.	F. O. Booe.
Battle Mountain	do	4,843	40	57.7	− 4.8	100	1†	24	27	62	0.10	− 0.16	0.10	0	1	14	8	8	w.	Southern Pacific Co.
Beowawe	do	4,905	40	.....	.....	94	2†	.....	.....	.....	0.53	+ 0.32	0.53	0	1	25	1	4	w.	Do.
Carlin	Elko	5,232	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.
Carson Dam	Churchill	4,032	4	59.3[e]	.....	89	1†	30	18	49[e]	0.00	.....	0.00	0	0	.....	.....	.....	w.	U. S. Reclamation Service.
Cherry Creek	White Pine	6,450	3	58.7	.....	87	2	30	18†	45	1.51	.....	0.93	0	4	21	6	3	w.	J. H. Leishman.
Clover Valley	Elko	6,000	11	57.4	− 0.4	88	1	25	18	46	0.59	+ 0.06	0.44	0	3	18	9	3	sw.	I. F. Wiseman.
Columbia	Esmeralda	5,750	4	63.6	.....	93	1	36	28	41	0.48	.....	0.48	0	1	19	9	2	se.	A. Booth.
Dutton	Elko	5,100	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Golconda Cattle Co.
Elko	do	5,432	40	54.7	− 2.1	90	1	18	19	59	.....	.....	.....	0	.....	14	9	7	w.	E. J. Clark.
Ely	White Pine	6,421	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. G. C. Hunting.
Eureka	Eureka	6,500	8	58.1	.....	89	1	24	18	46	1.20	.....	1.00	0	3	17	4	9	s.	Clay Simms.
Fallon	Churchill	3,965	6	58.4	.....	92	1	27	18	51	0.04	.....	0.04	0	1	20	8	2	ne.	U. S. Experiment Station.
Fernley	Lyon	4,200	38	59.4	− 3.6	92	1	23	18	56	0.15	− 0.11	0.15	0	1	22	7	1	.....	Mrs. G. A. Steele.
Gardnerville	Douglas	4,830	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Dangberg.
Geyser	Lincoln	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. J. F. Wambolt.
Glenbrook	Douglas	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Henningsen.
Golconda	Humboldt	4,097	32	55.1	− 6.5	90	1	25	28	46	0.00	− 0.30	0.00	0	0	25	1	4	nw.	Southern Pacific Co.
Halleck	Elko	5,631	18	51.4	− 4.6	92	1	10	19	64	0.51	+ 0.16	0.26	0	3	16	13	1	.....	Do.
Jean	Clark	2,074	3	.....	.....	104	1	.....	.....	.....	0.00	.....	0.00	0	0	19	0	11	sw.	Salt Lake Route.
Lahontan	Churchill	.....	0	63.8	.....	93	2	36	26	47	0.00	.....	0.00	0	0	22	4	4	w.	U. S. Reclamation Service.
Lewers's ranch	Washoe	5,500	23	56.3	− 4.0	83	1	32	28	43	0.00	− 0.79	0.00	0	0	22	8	0	.....	Ross Lewers.
Lovelocks	Humboldt	3,977	17	54.8	− 9.3	85	1	26	19†	49	T.	− 0.25	T.	0	0	19	10	1	s.	C. H. Allender.
Millett	Nye	.....	3	55.6	.....	98	1	24	19	54	0.16	.....	0.16	0	1	24	2	4	s.	Fred J. Jones.
Mina	Mineral	4,600	4	64.3	.....	95	1	34	19†	52	T.	.....	T.	0	0	17	5	8	s.	Southern Pacific Co.
Potts	Nye	6,990	18	52.2	− 3.5	85	1	18	18	49	0.10	− 0.20	0.10	0.	1	14	7	9	s.	Miss Mamie Potts.
Quinn River ranch	Humboldt	4,850	9	53.7[f]	.....	87	1	17	18†	61[f]	0.05	.....	0.05	0	1	.....	.....	.....	.....	F. M. Payne.
Reno	Washoe	4,532	40	57.4	− 2.3	85	1	31	18	45	T.	− 0.27	T.	0	0	24	5	1	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	4	59.4	.....	88	1	32	18†	42	T.	.....	T.	0	0	19	9	2	nw.	U. S. Reclamation Service.
Tecoma	Elko	4,812	33	.....	.....	89	11	.....	.....	.....	0.80	+ 0.44	0.40	0	3	14	3	13	n.	Southern Pacific Co.
Tonopah	Nye	6,090	6	60.7	.....	84	1	39	26	27	0.27	.....	0.27	0	1	19	7	4	se.	U. S. Weather Bureau.
Wabuska	Lyon	4,347	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Vic Bernard.
Wells	Elko	5,631	32	53.6	− 4.5	88	1†	16	18	55	0.80	+ 0.66	0.50	0	2	11	13	6	sw.	Southern Pacific Co.
Winnemucca	Humboldt	4,432	32	56.0	− 4.5	89	1	26	17	50	T.	− 0.34	T.	0	0	18	7	5	sw.	U. S. Weather Bureau.

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
* * Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for September, 1911. 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	
Wyoming.																																	
Border	Bear		.35				.08																				.16			.18	.42	1.19
Cokeville	do		T.	T.			.06						T.	.10									T.	.19	.10		.02			.12	.37	0.96
Evanston	do					T.	T.						.10	.16									T.	.14				.26		.37	.23	1.26
Idaho.																																	
Geneva	Bear													.02									.12	.05	.06						.18	0.43
Grace	do	T.			.03	.36	.10						T.	.10									.86	.05	.04						.47	2.01
Paris	do			.25	.05																			.04		.08	.10		.15	.29	.16	1.12
Weston	do			.22										.17									.50								.80	1.69
Utah.																																	
Alpine	G. S. Lake																							.30						1.30		1.60
Beaver	Sevier Lake		.07										.14							.11								.06		.98	2.17	3.53
Black Rock	do		T.											T.																1.13	.55	1.68
Burrville	do												.35															.10		1.10	.76	2.31
Castle Rock	G. S. Lake																															
Cedar City	Desert												.22	.01													T.	.03		.49	2.88	3.63
Center	do													T.									T.	.34				.07		.40	.22	1.03
Clarkston	G. S. Lake			.05										.30									.50				.06			*	1.00	1.91
Corinne	do					T.	T.							T.									T.					T.		.88		0.88
Deseret	Sevier Lake																											.18		.70	.40	1.28
Enterprise	G. S. Lake																											*	*	*	3.24	3.24
Erekson																							.02	.11				.08		.75		0.96
Fairfield	G. S. Lake											T.												.50						.24	.51	1.25
Farmington	do													.10									.03	.08				.25	.35	.05		0.86
Fillmore	Sevier Lake		T.									T.	.01	.02								T.		T.				.05		.65	.90	1.63
Frisco	Desert																										.04			1.52		1.56
Garland													.02									.08	.26						T.	1.00	.27	1.63
Garrison	Desert																															
Government Creek	do																															
Granger	do		T.											.03									.04	.30	T.			.10		.50	.29	1.26
Grantsville	G. S. Lake													.05									.06	.43						.41	.29	1.24
Grouse Creek	Desert													1.23									.17									1.40
Heber	G. S. Lake		.15		.15								.14	T.									.05	.15			.08	.45		.36	.36	1.89
Henefer	do		T.	T.		T.	.01						T.	.12	.02								.15	.25	.04	T.	T.	.28		.46	.55	1.88
Hooper	do																						.10						.10	.39	.67	1.26
Ibapah (near)	Desert																															
International	G. S. Lake													.05									.10	.29				.20		*	.76	1.40
Iosepa	Desert																						.10							.35	.61	1.06
Joy	do																						T.	.30				T.		.53	.23	1.06
Kanosh	Sevier Lake																											.01	.05	.74	.64	1.44
Kelton	G. S. Lake												.10										.35							.05	.25	0.75
Lemay	Desert																							.25							.45	0.70
Levan	Sevier Lake												T.										.02					.22		.62	.26	1.12
Logan	G. S. Lake						.02	.01						T.									.24		T.			.02		.73	.90	1.92
Low	do																						.10	.05			T.			.28	.75	1.18
Lucin	Desert												T.	T.										.05						T.	.45	0.50
Lund	do																													.65	1.28	1.93
Manti	Sevier Lake		T.										.10		.03								T.			.05	.09	.18		.70	.88	2.03
Maple Creek	G. S. Lake			.02									.20	.10									T.	.10			.06	.14		.51	.71	1.84
Marion	do		.03			.28							.39	T.									.15	.35	.03		.03	.59	.02	.29		2.16
Marysvale	Sevier Lake	T.	.08	.01								.01	.13		.02							T.					.15	T.	1.30	.63	2.33
Meadowville	G. S. Lake		T.										.20	.06									.20								.65	1.11
Mercur	do																															
Midlake	do																						.25							.14	.53	0.92
Milford	Sevier Lake																															
Millville	G. S. Lake						T.							T.									.22	T.	.03					.22	.71	1.18
Minersville	Sevier Lake												.56									T.						.01		1.40	1.01	2.98
Modena	Desert												.01		.03							T.					T.	.05	.15	1.19	.33	1.76
Morgan	G. S. Lake																															
Moroni	Sevier Lake		T.	T.		T.					T.	T.	.12	T.									T.	.03		T.	T.	.20	T.	.75	.52	1.62
Mosida	G. S. Lake												T.									T.	T.				.08			.51	.24	0.83
Mount Nebo	do																												.05	.65	.60	1.30
Nephi (near)	do																															
Newcastle	Desert																															
Oak City	Sevier Lake																															
Ogden	G. S. Lake																															
Park City	do					.02							.03	.05								.20	.50	.90						.30	1.30	3.30
Park Valley	Desert													.01									.63								.10	0.74
Parowan	do												.20															.02		*	3.31	3.53
Payson	G. S. Lake												.05	T.	.03								T	.09				.14		.50	.48	1.29
Pelican Point	do																						.01	.29				.17	.01	.41	.30	1.10
Pine Cliff Ranch	do													.10	.33								.27	.10		.45	.30			.45		2.00
Pinto	Desert												.12																*	*	3.43	3.55
Promontory	G. S. Lake												.60																.60		1.00	2.20
Provo	do		.15										.08											.20						1.00	.20	1.63
Randolph	do																					T.	.03	.07					T.	.20	.42	0.72
Revier	do																															
Richfield	Sevier Lake												.09	T														.12		1.10	.46	1.77
Saltair	G. S. Lake		.02											.05									.03	.31						.37	.36	1.15
Salt Lake City	do												T.	.01									.09	.32				.10		.85	.26	1.63
Scipio	Desert		T.									.05	T.	T.												T.	T.	.05		.79	.56	1.45
Silver City	do						T.																	T.					.03	.81	.55	1.39
Spanish Fork	G. S. Lake												.27	.03									.02	.03				.13		.50	.27	1.25
Strawberry Tunnel	do	T.	T.	.01		T.						T.	.24	.01	.01								.05	.19	.01		.04	.64	.01	.65	.56	2.42
Thistle	do	T.	T.	T.	T.	T.							T.	T.	T.								T	.08	T.	T.	T.	.50		.50	T.	1.08
Tooele	do	T.												.08									.05	.34			T.	.07		.35	.22	1.11
Utah Pumping Station.	do																															
Vernon	Desert																							.25		T.		.33		.44	.31	1.33
Wendover	do																						.15							.41	T.	0.56
Whiskey Creek	do												T.									T.					.20	.40	.50	.30		1.40
Woodruff	G. S. Lake																													1.00		1.00
Oregon.																																
Adel	Southeast drainage.																															
Ana River	do																															
Bear Valley	do					T.																					.35			T.	.10	0.45
Burns	do				.10	.03	.05									T.										.30	.07					0.55

TABLE 2.—*Daily precipitation for September, 1911. 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	
Oregon—Continued.																																
Burns Mill	Southeast drainage.				.02		T.	.23																		T.	.35	.07	.10			0.77
Christmas Lake	do				.18	.50	.04		T.	.08	T.						T.									.22	.09	.10		T.	T.	1.21
Cliff	do				.18	.35	.05			.10	.03						T.									.24	.24	.12				1.31
Diamond	do					T.	.18			T.																.18		.11				0.47
Embody	do			T.	.40	.20	.09		.03	.22			.18													.80	.35	.06	.02			2.35
Fort Rock	do	T.	T.		.25	.50				.45			T.													.70	.14				T.	2.04
Paisley	do				.21	.62																			T.		.48					1.31
Seneca	do									.68																			.40			1.08
Valley Falls	do				.06	.45	.09			T.															T.	.16	T.	.20				0.96
California.																																
Bijou	Truckee																					.05			T.	.07						0.12
Boca	do																															0.00
Deer Park	do																									.02						0.02
Glen Alpine	do																									.40						0.40
Hobart Mills	do																															0.00
Lundy	East Walker																					*	.25							.10	.05	0.40
Markleeville	East Carson											T.													T.						.01	0.01
Shields Ranch	East Walker																					.07		T.		T.					T.	0.07
Silver Creek	East Carson										T.														.03					T.		0.03
Tahoe	Truckee																									T.						T.
Tallac	do																									T.						T.
Truckee	do																															0.00
Woodfords	West Carson																					T.										T.
Nevada.																																
Arthur	Humboldt												T.										.02							*	1.00	1.02
Austin	Reese																															0.00
Battle Mountain	Humboldt																														.10	0.10
Beowawe	do																														.53	0.53
Bishop	do																															------
Carlin	do																															------
Carson Dam	Carson																															0.00
Cherry Creek	Humboldt																						.20	.03						.35	.93	1.51
Clover Valley	do												.06										.09							T.	.44	0.59
Cobre	do																															------
Columbia	Desert																													.48		0.48
Dry Farm	Humboldt																						.20							.03	.55	0.78
Dutton	do																															------
Elko	do																															------
Ely	do																															------
Eureka	do																					.10								1.00	.10	1.20
Fallon	Carson																							.04	T.						T.	0.04
Fernley	Truckee																														.15	0.15
Gardnerville	Carson																															------
Geyser	Humboldt																															------
Glenbrook	Truckee																															------
Golconda	Humboldt																															0.00
Halleck	do												.05									.20									.26	0.51
Jean	Desert																															0.00
Lahontan	Carson																															0.00
Lewers Ranch	Truckee																															0.00
Lovelocks	Humboldt					T.																										T.
Massacre Lakes	Desert					T.	.05																		T.	.08	.10	T.				0.23
Mill City	Humboldt																															0.00
Millett	Reese																													.16		0.16
Mina	Desert																							T.						T.	T.	T.
North Fork	Humboldt																															------
Potts	Reese																													.10		0.10
Quinn River Ranch	Humboldt							.05																								0.05
Rebel Creek	do					.08																										0.08
Reno	Truckee																									T.					T.	T.
Rose Creek	Humboldt							.03																								0.03
Skelton	do																					*	.50							*	.57	1.07
Smith	West Walker																T.														T.	T.
Spooners Ranch	Truckee																															0.00
Soda Lake	Carson																														T.	T.
Tecoma	Humboldt																				.30							.40		.10		0.80
Tonopah	Desert																					T.							T.	.27		0.27
Wabuska	Walker																															------
Wells	Humboldt																						.30								.50	0.80
Willow Point	Little Humb'lt																															0.00
Winnemucca	Humboldt					T.																										T.

* 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 at selected stations for September, 1911. District No. 10.*

Date.	Oregon.		Nevada.																									
	Burns.		Elko.		Ely.		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	90	42	90	48	.....	.....	89	53	92	50	104	.....	85	44	98	48	95	59	87	37	85	47	86	44	84	65	89	45
2	87	40	87	38	.....	.....	85	56	86	45	100	.....	82	39	85	40	94	55	86	37	78	45	86	46	79	58	84	43
3	75	39	79	39	.....	.....	80	40	83	47	98	.....	77	44	81	29	85	53	80	36	78	46	82	44	75	52	80	47
4	70	33	85	34	.....	.....	82	48	85	40	94	.....	78	40	82	31	84	43	76	33	73	42	84	42	76	54	80	38
5	69	34	80	47	.....	.....	77	36	72	35	99	.....	66	38	68	31	81	46	58	41	66	40	72	40	66	45	62	41
6	72	32	67	34	.....	.....	70	30	70	35	89	.....	69	32	70	31	75	43	70	37	71	37	78	42	66	41	68	32
7	74	34	70	29	.....	.....	73	34	75	37	92	.....	72	37	75	35	80	46	70	31	77	40	76	33	71	47	74	33
8	78	36	82	27	.....	.....	79	42	82	40	93	.....	73	35	80	28	86	67	77	37	74	44	84	32	75	53	78	35
9	79	34	82	30	.....	.....	78	44	83	44	92	.....	76	36	78	35	87	45	77	45	71	52	85	30	72	51	79	40
10	76	37	84	34	.....	.....	79	43	82	39	94	.....	75	40	80	49	86	46	82	37	74	43	82	.....	73	52	81	37
11	73	33	86	55	.....	.....	81	45	82	46	97	.....	75	45	82	52	87	53	82	44	75	42	89	.....	76	53	80	45
12	77	34	85	43	.....	.....	82	52	83	44	91	.....	76	46	80	45	88	56	75	46	72	42	82	.....	76	59	79	49
13	75	31	81	33	.....	.....	77	47	75	36	90	.....	70	53	82	29	88	48	70	35	75	37	76	.....	74	53	72	34
14	74	30	80	21	.....	.....	81	38	82	35	89	.....	71	35	83	29	88	36	80	26	80	39	84	.....	77	52	81	33
15	79	30	80	27	.....	.....	80	47	83	37	93	.....	75	32	83	29	86	45	79	46	78	41	84	.....	76	52	80	40
16	62	19	77	32	.....	.....	79	40	85	39	93	.....	76	31	78	29	85	44	72	38	77	42	80	.....	76	54	75	40
17	65	28	73	19	.....	.....	71	28	67	33	94	.....	67	27	73	30	82	36	67	23	67	34	84	.....	69	43	62	30
18	64	30	70	19	.....	.....	70	24	69	27	94	.....	67	27	73	25	84	41	74	17	72	31	79	.....	68	41	70	28
19	68	29	73	18	.....	.....	74	35	81	30	93	.....	75	26	77	24	82	34	.....	.....	80	35	74	.....	74	53	77	27
20	70	34	76	21	.....	.....	77	35	80	35	93	.....	74	35	80	27	84	39	78	17	82	39	77	.....	75	54	77	30
21	69	33	78	22	.....	.....	76	46	79	40	93	.....	75	33	72	33	85	47	81	20	74	43	79	.....	70	52	80	33
22	68	30	73	47	.....	.....	72	45	79	45	92	.....	73	42	74	45	78	52	.....	.....	70	48	72	.....	71	48	75	50
23	63	28	75	27	.....	.....	71	40	79	39	92	.....	72	38	77	35	79	47	.....	.....	75	43	75	.....	72	52	77	36
24	64	29	76	31	.....	.....	70	43	80	47	91	.....	74	42	70	40	77	50	.....	.....	77	50	78	.....	68	53	77	40
25	66	33	72	50	.....	.....	70	50	81	52	85	.....	76	55	59	45	79	55	.....	.....	71	43	74	.....	67	54	80	44
26	64	30	69	40	.....	.....	71	40	65	30	84	.....	62	29	69	39	75	39	.....	.....	66	38	75	47	66	39	64	35
27	66	28	67	23	.....	.....	68	44	70	32	84	.....	64	26	72	37	75	34	60	20	67	38	75	35	68	47	65	26
28	62	24	70	19	.....	.....	71	28	68	32	84	60	65	31	72	26	75	40	70	19	68	33	68	27	63	40	68	28
29	65	33	68	30	.....	.....	64	44	65	42	87	60	70	38	64	45	67	48	78	22	73	31	62	31	55	45	75	32
30	62	33	67	43	.....	.....	54	39	67	39	87	55	64	34	64	34	69	45	74	31	69	41	58	28	58	43	70	34
Mns.	70.9	32.0	76.7	32.7	.....	.....	75.0	41.2	77.7	39.1	92.0	.....	72.5	37.0	76.0	35.2	82.2	46.4	75.1[f]	32.3[f]	73.8	41.1	78.0	37.2[p]	71.2	50.2	75.3	36.8

Date.	Wyoming.				Weston, Idaho.		Utah.																					
	Border.		Evanston.				Corinne.		Deseret.		Iosepa.		Wendover.		Marysvale.		Meadowville.		Modena.		Woodruff.		Parowan.		Provo.		Salt Lake City.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	84	39	83	42	89	46	102	53	93	48	95	55	92	66	85	43	80	44	89	44	85	36	79	40	91	46	90	61
2	83	39	79	43	89	52	99	65	92	54	94	55	84	60	90	45	75	45	86	52	86	30	80	43	94	49	92	71
3	82	38	75	47	83	56	92	56	86	60	88	66	88	57	81	46	80	56	82	48	79	32	87	42	90	48	82	63
4	81	37	77	37	81	42	96	53	87	60	91	46	92	48	84	41	78	40	80	50	75	31	82	41	89	40	86	58
5	74	36	72	50	75	52	98	54	77	.....	99	60	96	48	70	57	72	55	73	45	72	30	72	40	78	54	74	50
6	70	23	60	26	64	40	82	46	72	.....	72	49	86	57	72	32	59	35	74	39	70	25	75	35	73	34	64	49
7	76	24	63	27	69	35	80	46	75	.....	76	42	80	38	76	30	64	31	77	39	79	29	80	39	76	32	68	47
8	.....	.....	74	27	77	31	86	48	83	.....	85	39	74	56	83	30	76	28	78	36	80	32	79	47	86	33	82	49
9	82	26	76	30	80	35	97	40	84	.....	86	56	89	60	82	42	79	33	79	45	79	28	81	48	88	36	84	60
10	82	34	77	39	82	43	98	45	86	.....	90	54	92	44	85	48	80	39	80	42	86	31	79	43	90	46	86	64
11	85	35	79	40	83	44	101	50	89	.....	93	59	92	58	87	50	83	40	83	48	84	36	83	48	92	46	89	63
12	85	34	76	45	79	50	91	55	80	.....	92	62	90	63	71	52	75	46	74	60	85	25	69	37	78	56	77	62
13	72	40	68	37	75	52	84	54	84	.....	91	65	86	61	78	49	71	41	77	52	82	30	76	52	85	47	78	57
14	72	28	69	30	75	29	89	41	80	.....	85	44	87	50	74	51	70	30	75	52	80	27	70	47	74	43	74	50
15	75	23	71	32	79	36	89	41	84	.....	87	52	86	58	76	37	75	40	78	46	76	25	75	39	86	41	81	57
16	74	27	72	32	76	36	84	39	83	.....	85	46	85	58	80	40	73	34	79	44	81	20	79	43	87	42	80	54
17	65	29	67	28	65	32	80	36	67	.....	76	39	80	45	70	43	63	28	72	42	75	18	80	45	68	36	60	46
18	63	16	64	20	68	25	78	33	71	.....	69	33	78	47	70	34	58	25	71	35	73	19	69	38	71	26	64	42
19	67	18	64	23	72	29	79	33	80	.....	77	33	76	45	78	32	60	25	79	34	71	16	73	40	82	28	70	44
20	67	19	65	22	74	30	76	33	77	.....	76	34	76	48	75	38	65	35	78	34	69	15	76	42	77	28	71	46
21	78	19	72	29	76	29	78	36	85	.....	85	35	75	48	78	30	78	28	79	37	71	18	77	39	87	28	82	47
22	63	42	67	36	67	48	86	33	80	60	84	53	74	46	78	50	73	40	75	44	80	17	69	37	76	50	69	54
23	70	25	65	28	72	36	75	42	80	45	74	41	74	47	78	43	71	30	75	45	72	18	69	40	75	38	68	51
24	76	29	66	32	72	39	78	40	79	43	80	46	75	49	77	41	67	34	76	43	76	16	72	40	75	40	76	52
25	74	29	70	37	73	46	77	44	82	47	80	47	75	52	80	40	70	40	75	40	66	20	75	39	80	42	76	54
26	72	28	71	45	78	53	85	59	80	58	80	61	82	60	75	50	74	42	76	48	70	21	74	50	86	53	80	61
27	66	29	67	44	75	45	77	52	78	53	89	54	80	56	75	50	59	31	74	46	72	19	70	45	78	53	77	56
28	65	22	62	34	68	31	78	37	76	37	71	39	79	58	66	45	59	30	68	41	75	16	67	45	57	45	66	46
29	65	21	58	30	60	30	77	36	68	59	59	44	64	52	65	50	60	28	57	47	69	15	56	43	57	45	60	51
30	68	40	56	40	59	47	75	33	67	50	64	48	72	54	74	43	59	45	60	46	72	19	50	40	73	51	60	51
Mns.	73.7[a]	29.6[a]	69.5	34.6	74.5	40.0	85.6	44.4	80.2	.....	82.4	48.6	82.0	53.0	77.1	42.7	70.5	36.6	76.0	44.1	76.8	23.8	74.1	41.9	80.0	41.9	75.5	53.9

[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.