Climatological Data for August, 1910.

DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The temperature for the district had averaged higher than normal for every month from March to July, inclusive; but during August it averaged below normal. Some very low temperatures were reported during the last decade, and killing frosts were recorded at many stations. The precipitation was much below normal.

TEMPERATURE

The average daily temperature for August was about 1.8° below normal, or 68.2°, and ranged from 76.2° at Oak City, Utah, to 54.2° at Truckee, Cal. It is probable that a higher mean temperature than 76.2° was experienced at Jean, Nev., but the record there for the month was somewhat broken, and therefore not available for comparison.

The greatest minus departures occurred in central Nevada, and the greatest plus departures, which, however, were small, in the southern portion of the Utah area.

The warmest portion of the month was during the first two decades, especially in the Utah area. The maximum temperatures for the month occurred on various dates, many stations reporting these data in the early part of the month, while others reported them as occurring during a warm period extending from the 17th to the 23d. The highest temperature reported was 106° at Jean, Nev., on the 4th and 5th, the next highest being 102° at Carlin, Nev., on the 7th, and at Corinne, Utah, on the 9th and 19th.

On the 25th very cool weather prevailed in the eastern portion of the district, when frosts were widespread and much vegetation was killed. However, there were no reports of serious losses, as the staple crops were pretty well gathered at that time. In Nevada the coolest weather occurred after the 27th. Frost formed in some localities, but in the agricultural districts it was too light to injure vegetation. Forty-five stations reported temperatures of 32° or below, the lowest being 20° at Truckee, Cal., on the 25th, at Carlin, Nev., on the 29th, and at Woodruff, Utah, on the 30th. The daily ranges in temperature during this month were particularly large, the greatest being 75° at Carlin, Nev.

PRECIPITATION.

For the district as a whole the monthly rainfall averaged 0.39 inch, which was 0.31 inch below normal. Very nearly every station reported amounts below normal; and of those whose monthly rainfall exceeded the normal amount, the excesses were small. Precipitation was showery, though the precipitation chart shows a comparatively equable distribution of moisture. The largest amounts fell in the southern portion of the Utah area and in the extreme southern portion of Nevada. Many stations in Nevada and in the Oregon area reported no rain. The largest monthly amount was 2.36 inches at Beaver, Utah, and the greatest 24-hour amount was 0.95 inch on the 11th at Pinto, Utah.

In Utah and Idaho most of the rain occurred from the 9th to the 13th, but numerous showers also fell at scattered stations during the first three days of the month and from the 19th to the 27th.

MISCELLANEOUS PHENOMENA.

Sunshine was abundant. At Salt Lake City, Utah, 73 per cent of the possible amount was recorded.

For the district there was an average of 21 clear, 7 partly cloudy, 3 cloudy, and 3 rainy days.

In the Utah area a general smoky condition due to forest fires was observed. The smoke came from the north, began about the 25th, and extended as far south as the middle of the State.

NOTES.

A true and liberal meaning of conservation as applied to our natural resources has not always been made quite clear. The article following, by Governor Spry, of Utah, attaches to the term a broad economic significance, and in it he has referred generously to the work of the U. S. Weather Bureau, and especially to the use made of the statistics of the Climatological Service. The application of these statistics has indeed changed the definition of a desert so interestingly told in a following article by J. Cecil Alter. Many who read this article will remember how, not very long ago, the term was applied to whole territories. But now by improved methods of agriculture, carried on by the irrigation and dry farmer, a great portion of the so-called desert has or will rapidly disappear.

RELATION OF THE WEATHER BUREAU TO THE CONSERVATION OF OUR NATURAL RESOURCES.

By Gov. WM. SPRY of Utah, Salt Lake City, Utah.

Of the many national problems brought conspicuously to the public notice in recent years, none has aroused such widespread interest and discussion and searching investigation as the problem of the conservation of our natural resources.

In the broad meaning of conservation, as applied to the nation's resources, an almost limitless field for cooperative action on the part of our citizens has been opened. Conservation which means not only the preserving of our natural resources, but their development and prudent and provident use, finds almost unanimous support. In many instances the consumption of our resources necessitates the activities of development and growth; and development and growth are better than conservation and preservation. Conservation aims at the estoppal of wanton waste; it strikes at the "skimming over" process which has held sway in the destruction of so many of our valuable resources; it aims to preserve for the public use and benefit the great natural assets of the nation as against their monopolization by the favored few; it has in view the restoration, so far as possible, of such of our resources as have been pillaged by the unscrupulous, and destroyed because of a lack of proper safeguards that have been made necessary by the changed conditions resulting from increased population and growing demand. In a word, the conservation movement means care, discretion, frugality, and judiciousness in the handling of our resources as against improvidence, prodigality, and wastefulness.

In the sense that conservation is development, the maintenance and upholding of the conservation policy is peculiarly within the province of the Weather Bureau. Precipitation, prevailing winds, temperature—these are all important considerations in the restoration of forest growth, and the controlling factors in the production of crops to serve and conserve the useful purposes and needs of man.

In the reclamation and development of the arid areas the Weather Bureau statistics furnish a substantial and sure basis upon which capital and energy can be invested. Warnings as to extreme weather conditions that endanger fruit crops, as furnished by the Bureau, are invaluable to the horticulturist. As the scope and purposes of the work of the Weather Bureau are more thoroughly understood, I am convinced that its reports and forecasts will be more generally followed as a guide in the development and conservation of our natural resources.

TABLE 1.—*Climatological data for August, 1910. District No. 10, Great Basin.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .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	7	60.8	+ 0.3	90	19†	20	25	61	0.15	− 0.96	0.15	0.0	1	23	7	1	w.	S. W. Condron.
Cokeville	do	6,204	0	58.2[c]		88	19†	21	25	57[c]	0.18		0.10	0.0	2	26[b]	3[b]	0[b]	w.	E. J. Tuckett.
Evanston	do	6,860	13	60.0	− 1.1	84	18	25	30	50	0.68	− 0.30	0.33	0.0	4	26	5	0	sw.	Frank Tucker.
Idaho.																				
Geneva	Bear Lake		3								0.53		0.45	0.0	2	29	2	0		F. W. Boehme.
Grace	Bannock	5,400	4	65.4		91[a]	8†	26	25	49	0.36		0.12	0.0	4	16	9	6	s.	Cyril B. Dickson.
Oxford	do	4,750																		Edwin Smith.
Paris	Bear Lake	5,946	16			88		22			0.95	+ 0.04	0.90	0.0	3	28	3	0	w.	John Norton.
Stone	Oneida	4,520																		Thos. W. Roe.
Weston	do	4,460	13	65.9	− 1.0	93	21	26	25	50	0.79	− 0.30	0.33	0.0	3	25	6	0	sw.	Wm. Chatterton.
Utah.																				
Alpine	Utah	4,900	13								0.80	− 0.63	0.40	0.0	3	21	7	3		George Stevens.
Annabella	Sevier	5,250	5																	J. W. Fairbanks.
Beaver	Beaver	6,000	7	69.4		88	17†	40	30	38	2.36		0.75	0.0	11	13	16	2	sw.	James Connell.
Black Rock	Millard	4,872	10	70.8		95	6†	31	30	55	0.71	− 0.17	0.54	0.0	3	9	20	2		W. D. Livingston.
Blacksmiths Fork	Cache		1																	Forest Supervisor.
Card Canyon	do		1																	Do.
Castle Rock	Summit	6,244	7																	David Moore.
Cedar City	Iron	5,750	5	72.4		91	2†	43	30	42	1.37		0.35	0.0	6	4	20	7	s.	Parley Dalley.
Corinne	Boxelder	4,240	40	73.9	− 0.5	102	9†	38	25	53	0.00	− 0.57	0.00	0.0	0	18	7	6		A. C. Murphy.
Deseret	Millard	4,541	16	72.2	+ 1.2	96	7	32	30	50	0.50	+ 0.01	0.30	0.0	4	18	10	3	s.	S. W. Western.
Enterprise	Washington	4,270	2																	John Day.
Farmington	Davis	4,267	10	69.1	− 1.3	91	20	40	30	40	0.02	− 0.94	0.02	0.0	1	23	7	1	nw.	Charles Boylin.
Fillmore	Millard	5,100	20	75.4	+ 1.1	100	23	37	30	51	0.68	− 0.15	0.48	0.0	4					J. J. Starley.
Friese Summit	Wasatch										1.08		0.38	0.0	4	12	17	2	s.	Victor A. Friese.
Frisco	Beaver	7,318	16	72.4	+ 0.7	95	19	41	30	41	0.88	− 0.30	0.32	0.0	6					E. R. Smyth.
Garland	Boxelder		1	68.6		94	19	36	31	48[a]	0.03		0.03	0.0	1	22	8	1	s.	Harry B. Shaw.
Garrison	Millard		7	71.2		93	20	34	30	49[a]	0.40		0.25	0.0	2	11[a]	8[a]	11[a]	s.	E. M. Smith.
Government Creek	Tooele	5,277	10	71.8	0.0	97	7	37	30	43	0.46	− 0.69	0.20	0.0	5	23	8	0	s.	Walter James.
Grantsville	do		1																	Allen J. Fraser.
Grouse Creek	Boxelder										0.09		0.05	0.0	3	19	11	1	sw.	Philip Paskett.
Heber	Wasatch	5,606	17	64.3	− 0.4	92	7†	25	30	57	0.11	− 0.86	0.05	0.0	3	21	7	3	s.	John Crook.
Henefer	Summit	5,301	11	63.3	− 0.7	92	18	25	30	62	0.45	− 0.69	0.38	0.0	4	19	7	5	w.	Wm. Brewer.
Ibapah (near)	Tooele	7,500	5	66.8[c]		91	7	32	25	41[d]	0.41		0.24	0.0	4	19[c]	9[c]	0[c]	s.	J. S. Lawton.
Ibex	Millard																			John J. Watson.
International	Tooele	5,370	1	74.0		93	18	48	25†	33	0.70		0.38	0.0	4	21	7	3	se.	I. S & R. Co.
Iosepa	do																			James Mackie.
Kanosh	Millard	5,250	2								0.55		0.27	0.0	5					Geo. Crane.
Kelton	Boxelder	4,230	32	67.4	− 7.2	95	3	30	25	52	T.	− 0.20	T.	0.0	0	10	20	1	sw.	F. W. Klock.
Levan	Juab	5,010	20	71.0	+ 1.2	94	7†	35	30	45	0.18	− 0.75	0.08	0.0	4	22	6	3	sw.	Wm. Brown.
Logan	Cache	4,507	19	70.8	+ 0.2	92	10	41	29	37	0.05	− 0.75	0.05	0.0	1				n.	Utah Exp. Station.
Lucin	Boxelder	4,504	6	71.8		100	4	32	25	67	T.		T.	0.0	0	20	9	2		C. J. Burke.
Manti	Sanpete	5,575	16	61.4	− 7.9	80	5	34	30	34	0.30	− 0.32	0.20	0.0	2	13	5	13		J. M. Anderson.
Marion	Summit	6,750	6																	Jas. Woolstenhulme.
Marysvale	Piute	6,280	11	66.8	+ 1.6	92	26	36	30	47	0.77	− 0.96	0.22	0.0	13	10	2	19	sw.	John W. Henry.
Meadowville	Rich	6,200	11	62.0	− 1.9	89	21	25	25	52	0.15	− 0.92	0.15	0.0	1	28	1	2	w.	J. S. Moffat.
Milford	Beaver	4,962	6	73.0		98	7	38	30	51	0.50		0.50	0.0	1	15	0	16	sw.	J. C. Manuel.
Millville	Cache	4,848	15								0.02	− 0.91	0.02	0.0	1	23	7	1	s.	Fred Yeates.
Minersville	Beaver	5,070	13								1.25	+ 0.33	0.45	0.0	6					Geo. Roberts, sr.
Modena	Iron	5,479	10	70.7	+ 2.1	92	7	46	30	40	1.32	+ 0.93	0.50	0.0	5	11	17	3	sw.	U. S. Weather Bureau.
Morgan	Morgan	4,280	7																	W. Visick.
Moroni	Sanpete	5,519	2	70.4		94	26	39	25†	46	0.72		0.42	0.0	5	13	13	5	sw.	B. F. Eliason.
Mount Nebo	Utah	4,650	9	75.6		97	20†	40	30	40	1.19		0.56	0.0	5	23	6	2	s.	D. C. Walkey.
Nephi (near)	Juab	6,059	7								0.09		0.05	0.0	3	9	20	2	sw.	S. Boswell.
Oak City	Millard	4,900	6	78.2		98	18	42	25	45	0.37		0.18	0.0	4	6	22	3	sw.	Peter Nielson.
Ogden	Weber	4,310	9	70.6[c]		89	18	50	29	31[c]	0.13		0.13	0.0	1	23[b]	5[b]	1[b]	nw.	Enoch Farr.
Panguitch Lake	Garfield	9,000	1								1.60		0.50	0.0	7	8	5	18	n.	Jas. E. Prince.
Park City	Summit	7,800	13																	Irvin Evans.
Parowan	Iron	5,970	19	69.8	+ 0.4	90	22†	40	31	47	0.57	− 0.72	0.20	0.0	6	18	0	13		S. M. Matheson.
Payson	Utah	4,637	7								0.62		0.30	0.0	6	10	17	4	sw.	D. L. Coombs.
Pinto	Washington	5,907	13	65.0	+ 0.2	87	2†	36	31	47	1.99	+ 0.06	0.95	0.0	5	13	11	7	s.	J. H. Harrison.
Promontory	Boxelder	4,913	39																	F. C. Houghton.
Provo	Utah	4,532	18	73.8	+ 3.1	100	5†	38	30	52	0.31	− 0.24	0.20	0.0	2	10	21	0	n.	James A. Oliver.
Randolph	Rich	6,442	7								0.42		0.41	0.0	2	23	7	1	sw.	William Rex.
Richfield	Sevier	5,350	20	70.1	+ 0.8	95	6	38	30	51	0.10	− 0.57	0.10	0.0	1	17	6	8		Joseph J. Jensen.
Saltair	Salt Lake	4,220	7	74.1		87	8†	50	30	28	0.26		0.15	0.0	6					E. J. Bench.
Salt Lake City	do	4,360	37	74.6	− 0.9	94	20	49	30	35	0.33	− 0.45	0.18	0.0	4	19	8	4	se.	U. S. Weather Bureau.
Scipio	Millard	5,260	15	68.8	+ 0.2	94	3	28	30	55	0.44	− 0.59	0.20	0.0	4	16	4	11	sw.	Thos. Memmott.
Sevier Mine	Sevier										1.55		0.40	0.0	6	14	17	0		Max Krotki.
Silver City	Juab	6,127									0.62		0.21	0.0	5	18	13	0		J. L. Stark.
Spanish Fork Canyon	Utah	4,585	1	74.0		95	7	41	30	41	0.23		0.23	0.0	2	24	3	4		U. S. Reclamation Service.
Strawberry Valley	do		4	62.6		86	21	30	30	50	0.91		0.30	0.0	10	16	11	4		Do.
Thistle	do	5,075	18	66.5	− 3.1	97	1	26	30	55	0.91	− 0.11	0.22	0.0	7	18	3	10	w.	J. Thorgeirson.
Tooele	Tooele	4,900	14	70.4	− 2.3	93	18†	40	30	41	0.41	− 0.52	0.14	0.0	5	6	10	15	n.	E. A. Bonelli.
Utah Lake Pumping Sta.	Utah	4,500	5																	W. A. Knight.
Woodruff	Rich	6,500	12	59.0	− 1.4	88	3	20	30	57	0.30	− 0.16	0.20	0.0	2	22[c]	2[c]	4[c]		J. Sidney Pusey.
Oregon.																				
Burns	Harney	4,157	20																	J. C. Welcome, jr.
Christmas Lake	Lake	4,320	2	56.1		91	19†	18	29	66	0.00		0.00	0.0	0	19	10	2	nw.	John C. Green.
Paisley	do	4,500	6	55.4		90	3†	36	29	44	0.00		0.00	0.0	31	0	0	0	nw.	E. C. Woodward.
"P" Ranch	Harney	4,300																		J. P. Jefferson.
Silver Lake	Lake	4,700	14	57.8	− 3.1	91	8	23	29	57	T.	− 0.32	T.	0.0	0	26	0	0	w.	Wm. Holder.
California.																				
Al Tahoe	Eldorado	6,235		61.6		88[a]	8	30	18†	54	0.00		0.00	0.0	0	31	0	0	sw.	A. R. Sprague.
Glen Alpine Springs	do	6,850																		R. W. Porteous.
Tahoe	Placer			59.8		86	13†	33	29	46	0.00		0.00	0.0	0	31	0	0	w.	Robert M. Watson.
Truckee	Nevada	5,819	39	54.2	− 9.2	98	21	20	25	72	0.00	− 0.08	0.00	0.0	0	31	0	0	e.	Southern Pacific Co.
Nevada.																				
Aurora	Esmeralda																			J. I. Cain.
Austin	Lander	6,594	21																	James L. Pelton.
Battle Mountain	do	4,843	39	67.4	− 6.7	104	1	34	21	60	0.00	− 0.10	0.00	0.0	0	26	4	1	w.	Southern Pacific Co.
Beowawe	Eureka	4,905	39	67.8	− 7.3	100	10†	32	30	60	0.00	− 0.14	0.00	0.0	0	31	0	0	w.	Do.
Carlin	Elko	5,232	39	66.4	− 2.7	102	7	20	29	75	0.00	− 0.14	0.00	0.0	0	31	0	0		Do.
Carson Dam	Churchill	4,032	3	71.2[1]		95	23	41	30	44	0.00		0.00	0.0	0				w.	U. S. Reclamation Service.
Cherry Creek	White Pine	6,450	2	70.0		92	3†	39	25†	47	0.20		0.10	0.0	3	15	16	0	sw.	J. H. Leishman.
Clover Valley	Elko	6,000	10	69.4		93	4†	34	30	50	0.03		0.03	0.0	1	24	7	0		I. F. Wiseman.
Cobre	do		1	66.8	− 4.1	101	2†	23	31	63	0.03	− 0.29	0.03	0.0	1	13	16	2	ne.	Southern Pacific Co.

TABLE 1.—*Climatological data for August, 1910. District No. 10*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .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.		
Nevada—Cont'd.																				
Columbia	Esmeralda	5,750	3	74.2	.....	96	23	46	30	38	0.08	.....	0.05	0.0	3	25	6	0	se.	A. Booth.
Dutton	Elko	5,100	2	61.6	.....	92	1†	23	30	62	0.00	.....	0.00	0.0	0	27	4	0	w.	Golconda Cattle Co.
Elko	do	5,342	39	62.4	− 5.7	91	3†	24	27	65	T.	− 0.31	T.	0.0	0	24	7	0	ne.	Southern Pacific Co.
Ely	White Pine	6,421	19	56.4	.....	80	25	33	21	35	0.97	.....	0.42	0.0	4	24	3	4	w.	G. C. Hunting.
Eureka	Eureka	6,500	7	69.6	− 0.5	92	7†	34	29	51	0.54	− 0.16	0.22	0.0	5	13	9	9	s.	Clay Simms.
Fallon	Churchill	3,965	5	71.2	− 0.8	98	3†	39	30	52	0.00	− 0.06	0.00	0.0	0	29	1	1	w.	U. S. Experiment Farm.
Fernley	Lion	4,200	2	75.1	− 0.1	99	3†	38	30	49	0.00	− 0.27	0.00	0.0	0	31	0	0	w.	Mrs. A. J. Rankin.
Gardnerville	Douglas	4,830	10	66.6	− 1.6	94	5†	30	30	58	0.00	− 0.21	0.00	0.0	0	28	1	2	e.	Wm. Dangberg.
Geyser	Lincoln	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. J. F. Wambolt.
Glenbrook	Douglas	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Henningsen.
Golconda	Humboldt	4,697	31	70.4	− 2.2	97	9	33	25	57	0.00	− 0.12	0.00	0.0	0	31	0	0	sw.	Southren Pacific Co.
Halleck	Elko	5,631	17	68.0	+ 1.3	95	2†	34	24	56	0.00	− 0.20	0.00	0.0	0	30	1	0	.....	Do.
Jean	Clark	2,074	2	.....	.....	106	5†	70	1	34	1.13	.....	0.50	0.0	3	25	0	6	.....	Salt Lake Route.
Leetville	Churchill	4,020	3	72.8	.....	99	3†	39	30	48	0.00	.....	0.00	0.0	0	31	0	0	w.	U. S. Reclamation Service.
Lewers Ranch	Washoe	5,500	22	65.8	− 2.3	92	22	37	29	44	0.00	− 0.43	0.00	0.0	0	28	3	0	.....	Ross Lewers.
Lovelock	Humboldt	3,977	7	69.4	− 6.2	100	2	36	4	62	0.00	− 0.03	0.00	0.0	0	.....	.....	.....	.....	J. S. Case.
McAfees Ranch	Esmeralda	4,835	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. H. Rodenkirch.
Millett	Nye	.....	2	68.2	.....	94	23	31	30	56	T.	.....	T.	0.0	0	26	4	1	w.	Fred J. Jones.
Mina	Esmeralda	4,600	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Palmetto	do	6,780	20	62.8	.....	93	5†	24	29	60	0.00	.....	0.00	0.0	0	.....	.....	.....	nw.	A. J. Akin.
Potts	Nye	6,990	17	64.3	− 3.5	93	3	29	30	55	T.	− 0.66	T.	0.0	0	11	6	14	s.	Miss Mamie Potts.
Quinn River Ranch	Humboldt	4,850	8	67.3[d]	.....	96	18†	26	25†	68	0.00	.....	0.00	0.0	0	30	0	1	sw.	F. M. Payne.
Reno	Washoe	4,532	39	69.8	+ 2.8	96	22	41	30	45	0.00	− 0.25	0.00	0.0	0	31	0	0	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Reclamation Service.
Tecoma	Elko	4,812	32	62.8	−10.0	96	22	23	25†	62	T.	− 0.25	T.	0.0	0	13	12	6	se.	Southern Pacific Co.
Tonopah	Nye	6,090	3	74.7	.....	91	23	48	29	29	0.24	.....	0.24	0.0	1	21	10	0	w.	U. S. Weather Bureau.
Wabuska	Lyon	4,347	7	65.5	.....	92	2†	32	30	52	0.00	.....	0.00	0.0	0	31	0	0	nw.	Vic Bernard.
Wells	Elko	5,631	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Winnemucca	Humboldt	4,432	31	67.7	− 3.1	95	19	37	25	56	0.00	− 0.17	0.00	0.0	0	31	0	0	sw.	U. S. Weather Bureau.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ 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.
‖ Estimated by observer.
‖‖ 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 2.—*Daily precipitation for August, 1910. District No. 10, Great Basin.*

Stations.	River basins.	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											.15	T.	T.																			0.15
Cokeville	...do	.08	.10										T.	T.														T.					0.18
Evanston	...do	.33										.09		.11						.15													0.68
Idaho.																																	
Geneva	Bear											.45		.08																			0.53
Grace	...do	.08									T.	.12	T.	.12	T.					T.	.04							T.					0.36
Oxford	...do																																
Paris	...do											.90	.02	.03																			0.95
Stone	Deep Creek																																
Weston	Bear	.24											.22	.33																			0.79
Utah.																																	
Alpine	Great Salt Lake	.40										.35										.05											0.80
Annabella	Sevier Lake																																
Beaver	...do	.02		.22	.02					.03	.40	.07	.12						T.	.08			.60				.05	.75					2.36
Black Rock	...do	.54												.07														.10					0.71
Blacksmiths Fork	Great Salt Lake																																
Card Canyon	...do																																
Castle Rock	...do																																
Cedar City	Desert		T.	.06	.30	.34				.07		.35								T.			T.					.25					1.37
Corinne	Great Salt Lake																																0.00
Deseret	Sevier Lake									.30		.15	.03															.02					0.50
Enterprise	Desert																																
Farmington	Great Salt Lake											.02	T.	T.														T.					0.02
Fillmore	Sevier Lake	.10								T.		.48		.07						T.		T.		T.			T.	.03				T.	0.68
Friese Summit	Great Salt Lake			.19										.23				T.						.23						.38			1.08
Frisco	Desert			.08									.32							.06				.10			.25	.07					0.88
Garland	Great Salt Lake	.03																															0.03
Garrison	Desert	T.							T.	T.	T.	T.	T.							T.	T.	.25	T.				.15						0.40
Government Creek	...do		.05									.16	T.	.02						T.		.03						.20					0.46
Grantsville	Great Salt Lake																																
Grouse Creek	Desert	.03												.05						T.							.01						0.09
Heber	Great Salt Lake	.03							T.		.05		.03	T.													T.	T.					0.11
Henefer	...do	.38	.01					T.				.05		T.						T.								.01					0.45
Ibapah	Desert	T.			.08					.05	T.			T.						.04	T.	.24					T.	T.					0.41
Ibex	...do																																
International	Great Salt Lake											.38	.06	.22														.04					0.70
Iosepa	Desert																																
Kanosh	Sevier Lake	.02								.04		.16	.06															.27					0.55
Kelton	Great Salt Lake	T.																															T.
Levan	Sevier Lake	T.								.03		.03	T.								T.	T.					.04	T.	.08				0.18
Logan	Great Salt Lake	.05																															0.05
Lucin	Desert	T.									T.		T.																				T.
Manti	Sevier Lake		.20									.10								T.													0.30
Marion	Great Salt Lake																																
Marysvale	Sevier Lake	.03			.05					.22	.04	.02	.02	.04					T.	.11	.06	.05		.07			.05					.01	0.77
Meadowville	Great Salt Lake	.15	T.									T.																					0.15
Milford	Sevier Lake												T.							T.		T.	.50	T.									0.50
Millville	Great Salt Lake	.02																															0.02
Minersville	Sevier Lake			.14	.07					T.	.11	.17						T.	T.	T.		.45	.31										1.25
Modena	Desert				.36					T.	T.	.50											.27	T.			.14				.05		1.32
Morgan	Great Salt Lake																																
Moroni	Sevier Lake		.12					T.		T.	.02	T.	.11		T.					.42		T.					T.	T.	.05				0.72
Mt. Nebo	Great Salt Lake	.34	.11									.16	.56							.02								T.					1.19
Nephi (near)	...do	.05										.02															.02						0.09
Oak City	Sevier Lake		.09							.18				.08								.02											0.37
Ogden	Great Salt Lake	.13																															0.13
Panguitch Lake	Sevier Lake	T.	.20	.30	.25					.08	.05	.50							T.				T.				.22					T.	1.60
Park City	Great Salt Lake																																
Parowan	Desert				.06	.07							.20							.11		.06					.07						0.57
Payson	Great Salt Lake	.30	T.							T.	.03	.12		.08						T.		.04							.05				0.62
Pinto	Desert			.10	.52					T.		.95											.26					.16					1.99
Promontory	Great Salt Lake																																0.00
Provo	...do													.20															.11				0.31
Randolph	...do										.41	.01																					0.42
Richfield	Sevier Lake											T.	.10									T.					T.	T.					0.10
Saltair	Great Salt Lake	.04	.01									.04	.01	.15	.01													T.					0.26
Salt Lake City	...do	.04						T.		T.		.18	T.	T.	T.						.01							.10					0.33
Scipio	Desert	.18								.01		.20															T.	T.	.05				0.44
Sevier Mine	Sevier Lake	.40		T.	T.					.30	.20	.30	.05										.30										1.55
Silver City	Desert	.21										.21	.07														.07	.06					0.62
Spanish Fork Canyon	Great Salt Lake																											*	.23				0.23
Strawberry Valley	...do	.30	.02		.12							.14	.03	T.						.06		.03	.01				.02		.18				0.91
Thistle	...do	.20	.10	T.						T.	T.	.11	T.	.14	T.					T.		T.					.09	.22	.05				0.91
Tooele	...do	T.	.10		T.					T.	T.	.03	.06	.14							T.						T.	.08					0.41
Utah Lake Pump'g Sta.	...do																																
Woodruff	...do											.10	.20																				0.30
Oregon.																																	
Ana River	Southeast Drainage																																0.00
Burns	...do																																
Burns Mill	...do																																0.00
Christmas Lake	...do																																0.00
Diamond "H" Ranch	...do																																
Paisley	...do																																0.00
Plush	...do																																0.00
"P." Ranch	...do																																
Silver Lake	...do								T.																								T.
Valley Falls	...do																																0.00
California.																																	
Al Tahoe	Truckee																																0.00
Bijou	...do																																
Boca	...do																																
Bodie	East Walker																						T.										T.
Bridgeport	...do																																
Brockway	Truckee																																
Deer Park	...do																																
Donner Ice Camp	...do																																0.00
Fales' Hot Springs	West Walker																																0.00
Glen Alpine Springs	Truckee																																
Hobart Mills	...do																																0.00
Lundy	East Walker																																0.00
Markleeville	East Carson																																
McKinney	Truckee																																
Shields' Ranch	West Walker																																0.00
Silver Creek	East Carson																																

TABLE 2.—*Daily precipitation for August, 1910. District No. 10*—Continued.

Stations.	River basins.	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	
California—Cont'd.																																	
Tahoe	Truckee																																0.00
Tallac	...do																																
Truckee	...do																																
Woodfords	West Carson																																
Nevada.																																	
Aurora	East Walker																																
Austin	Reese																																
Battle Mountain	Humboldt																																0.00
Beowawe	...do																																0.00
Carlin	...do																																0.00
Carson Dam	Carson																																0.00
Cherry Creek	Humboldt	.03								T.	T.	.10									.07						T.						0.20
Clover Valley	...do																			.03													0.03
Cobre	...do					.03	T.							T.																			0.03
Columbia	Desert				.05																T.						.01				.02		0.08
Dutton	Humboldt																																0.00
Elko	...do	T.																		T.													T.
Ely	...do		.15										.04	.42														.30					0.97
Eureka	...do	.22								T.		.16	.04								.04						.08						0.54
Fallon	Carson																																0.00
Fernley	Truckee																																0.00
Gardnerville	Carson																																0.00
Geyser	Humboldt																																
Glenbrook	Truckee																																
Golconda	Humboldt																																0.00
Halleck	...do																																0.00
Jean	Desert											.50										.48									.15		1.13
Leetville	Carson																																0.00
Lewers Ranch	Truckee																																0.00
Lovelock	Humboldt																																0.00
McAfee's Ranch	Desert																																
Millett	Reese																				T.		T.										T.
Mina	Desert																																
North Fork	Humboldt																			.03													0.03
Palmetto	Desert																																0.00
Paradise Valley	Little Humboldt																																0.00
Potts	Reese																				T.	T.			T.								T.
Quinn River Ranch	Humboldt																																0.00
Reno	Truckee																																0.00
Rose Creek	Humboldt																																0.00
Smith	West Walker																																0.00
Spooners Ranch	Truckee																																0.00
Soda Lake	Carson																																
Sweetwater	East Walker																																0.00
Tecoma	Humboldt	T.			T.						T.																						T.
Tonopah	Desert																														.24		0.24
Wabuska	Walker																																0.00
Wells	Humboldt																																
Willow Point	Little Humboldt																																0.00
Winnemucca	Humboldt																																0.00

TABLE 3.—*Maximum and minimum temperatures at selected stations, August, 1910. District No. 10, Great Basin.*

Date.	Wyoming.						Utah.																					
	Border.		Evanston.		Weston, Idaho.		Corinne.		Deseret.		Government Creek.		Ibapah.		Marysvale.		Meadowville.		Modena.		Ogden.		Parowan.		Provo.		Salt Lake City.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	87	45	80	48	86	52	97	56	91	62	90	58	80	50	84	55	85	50	90	59	84	60	87	57	97	69	90	62
2...	84	43	80	46	87	50	100	56	94	52	90	57	85	51	87	49	83	46	90	56	86	62	88	58	98	60	87	63
3...	85	36	82	43	89	46	97	58	93	59	90	58	85	51	83	51	80	43	87	58	82	61	82	58	92	58	88	63
4...	86	35	81	44	89	45	95	52	89	63	89	58	83	51	78	55	88	40	87	57	85	59	83	58	87	60	85	66
5...	81	40	77	43	86	48	99	46	90	51	90	57	83	47	84	45	79	49	88	51	83	60	84	57	100	52	84	63
6...	86	32	80	39	88	43	97	47	95	47	93	56	87	52	88	43	83	41	91	54	86	56	80	53	100	53	90	60
7...	86	37	82	38	89	44	96	52	96	50	97	53	91	52	89	51	84	41	92	60	88	60	88	50	94	45	92	64
8...	84	34	81	41	87	47	95	50	94	53	90	52	84	48	87	55	81	44	90	57	83	56	86	59	92	54	86	65
9...	83	36	79	40	86	44	102	52	90	57	92	54	83	54	88	53	83	40	84	58	81	60	86	58	90	54	87	62
10...	90	40	83	42	89	52	101	58	90	55	93	59	84	53	84	47	86	48	85	57	86	61	85	56	94	56	90	62
11...	82	62	81	46	88	53	99	55	92	55	82	58	.....	.....	74	54	83	52	72	59	85	66	82	56	92	56	85	64
12...	83	44	79	44	85	52	94	58	89	55	84	52	.....	.....	81	58	79	45	82	56	.....	.....	82	56	89	57	86	62
13...	83	43	79	46	84	48	91	53	88	53	85	56	82	48	81	47	80	50	84	51	81	59	83	55	92	58	86	62
14...	80	37	75	40	84	48	93	55	90	51	88	56	85	48	83	46	83	40	85	52	.....	.....	84	52	92	55	88	64
15...	78	36	76	38	82	45	94	55	89	49	87	51	85	45	84	42	78	45	85	50	83	57	85	48	92	55	84	60
16...	81	37	79	39	84	49	99	55	88	56	88	57	86	51	80	43	81	41	82	51	82	59	85	46	96	54	84	65
17...	83	35	80	38	84	42	97	53	90	53	88	57	86	48	86	46	81	42	86	47	81	51	86	54	90	54	86	63
18...	90	36	84	43	89	44	99	58	94	52	93	57	87	51	90	45	80	40	89	49	89	61	85	58	96	54	93	66
19...	90	38	82	47	92	50	102	54	95	62	92	66	83	56	91	53	84	44	89	61	88	65	81	62	96	62	92	70
20...	89	69	77	47	90	54	99	52	94	61	93	61	90	55	88	51	87	59	90	58	87	68	89	57	99	57	94	68
21...	88	42	83	43	93	53	101	58	95	61	94	64	75	56	88	52	89	58	91	62	86	70	89	57	99	57	92	73
22...	86	30	82	44	90	42	99	58	94	55	91	58	86	52	87	51	83	40	91	58	83	59	90	57	92	40	89	68
23...	86	36	82	42	91	42	99	50	95	62	93	64	86	54	87	53	84	40	89	57	85	62	90	57	100	65	91	69
24...	80	29	76	34	77	40	90	46	87	52	83	52	80	50	87	56	74	45	91	60	75	52	88	54	84	59	74	60
25...	77	20	77	27	75	26	87	38	83	38	80	38	73	32	84	40	67	25	85	49	.....	.....	82	55	82	40	76	53
26...	88	27	80	31	88	38	95	42	94	46	92	52	85	52	92	45	86	34	90	55	81	50	82	56	97	49	92	57
27...	85	49	81	45	90	65	95	53	92	64	90	64	87	57	84	53	84	53	85	56	85	63	82	57	96	62	90	59
28...	86	41	81	43	86	50	98	50	92	64	91	57	88	52	86	48	84	46	87	56	84	34	83	45	94	59	90	65
29...	76	41	75	42	73	49	89	46	75	49	68	40	75	36	79	49	68	40	82	51	73	50	85	54	85	53	76	54
30...	75	22	74	25	77	30	95	41	82	32	80	37	.....	36	79	36	73	27	82	46	73	.....	86	50	86	38	77	49
31...	70	29	75	30	82	36	92	40	88	51	85	54	.....	.....	80	51	80	27	81	51	80	54	87	40	92	50	85	57
Mns	83.5	38.1	79.5	40.6	85.8	46.0	96.3	51.5	90.6	53.9	88.4	55.3	83.9[d]	49.6[e]	84.6	49.1	81.0	43.1	86.5	54.9	83.0[e]	58.3[d]	85.0	54.5	93.1	54.5	86.7	62.5

Date.	Burns, Oreg.		Nevada.																									
			Elko.		Ely.		Eureka.		Fallon.		Jean.		Lovelock.		Millet.		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.	.....	.....	88	46	67	46	83	50	97	56	104	70	99	55	91	50	.....	.....	94	62	92	53	88	44	87	66	92	51
2.	.....	.....	90	44	69	48	84	50	95	52	103	79	100	38	92	47	.....	.....	92	58	91	52	92	42	88	63	90	57
3.	.....	.....	91	46	74	55	90	50	98	53	.....	.....	93	37	93	47	.....	.....	95	39	93	54	90	48	89	65	95	54
4.	.....	.....	88	39	70	48	89	63	94	56	106	85	97	36	92	53	.....	.....	90	45	91	56	86	46	89	66	91	54
5	.....	.....	89	38	71	46	89	50	95	51	106	87	98	40	92	48	.....	.....	91	47	93	53	88	44	89	65	90	46
6.	.....	.....	91	38	68	42	91	53	96	51	.....	.....	94	49	93	43	.....	.....	94	50	90	52	90	42	91	68	90	44
7.	.....	.....	89	34	65	41	92	53	98	46	.....	.....	95	50	93	42	.....	.....	94	50	89	50	92	44	90	64	92	47
8.	.....	.....	90	33	70	46	90	49	94	43	.....	.....	94	49	92	47	.....	.....	93	43	92	51	92	42	88	62	92	55
9.	.....	.....	88	38	76	42	86	53	95	54	.....	.....	95	52	89	48	.....	.....	94	40	91	52	90	44	87	64	94	48
10.	.....	.....	90	37	69	38	89	56	95	57	.....	.....	93	58	90	47	.....	.....	93	47	89	55	92	44	86	64	94	52
11.	.....	.....	90	36	64	42	86	60	94	52	.....	.....	98	42	92	55	.....	.....	.....	.....	88	53	90	46	87	63	91	54
12.	.....	.....	85	39	68	36	82	60	89	50	.....	.....	96	40	89	47	.....	.....	89	44	85	49	88	48	85	62	88	56
13.	.....	.....	86	38	68	39	82	49	90	47	.....	.....	97	39	88	43	.....	.....	91	43	84	48	86	46	83	60	88	40
14.	.....	.....	85	34	70	42	87	47	90	47	.....	.....	94	41	89	43	.....	.....	90	48	86	50	88	42	84	59	88	42
15.	.....	.....	85	39	66	37	88	48	90	48	.....	.....	98	43	90	43	.....	.....	87	52	90	49	86	33	86	62	87	44
16.	.....	.....	83	38	68	40	88	50	90	52	.....	.....	92	41	87	43	.....	.....	85	48	88	48	88	34	83	60	84	43
17.	.....	.....	89	37	77	43	85	47	91	47	.....	.....	99	45	85	40	.....	.....	94	35	89	52	88	36	82	58	90	49
18.	.....	.....	91	29	70	40	87	58	91	49	.....	.....	94	40	89	40	.....	.....	96	44	89	51	92	34	85	63	93	44
19.	.....	.....	87	42	72	41	88	61	96	53	103	98	95	39	89	53	.....	.....	94	46	91	55	92	36	86	68	95	44
20.	.....	.....	90	50	71	38	89	55	96	51	102	77	93	40	91	50	.....	.....	92	46	91	50	94	38	90	67	94	52
21.	.....	.....	89	47	68	33	85	57	94	50	105	79	96	49	88	54	.....	.....	96	38	93	48	90	36	90	70	92	46
22.	.....	.....	88	39	70	37	92	52	96	55	105	75	98	52	91	50	.....	.....	95	38	96	53	96	34	91	70	94	38
23.	.....	.....	90	37	74	39	92	57	97	53	104	79	97	48	94	49	.....	.....	.....	.....	95	56	92	40	91	67	92	42
24.	.....	.....	81	35	77	45	87	47	85	47	.....	.....	96	40	88	44	.....	.....	.....	.....	87	52	78	38	88	65	75	42
25.	.....	.....	86	29	80	46	90	39	90	43	105	78	95	50	92	42	.....	.....	94	26	95	50	76	23	89	60	87	37
26.	.....	.....	86	32	73	40	88	65	98	57	105	79	97	48	93	53	.....	.....	96	41	89	59	86	30	90	68	94	51
27.	.....	.....	89	24	70	40	87	54	95	50	104	78	90	40	90	56	.....	.....	90	48	86	49	82	34	86	66	90	44
28.	.....	.....	88	35	69	46	88	47	90	42	103	78	93	39	88	44	.....	.....	83	41	81	45	78	36	84	58	83	40
29.	.....	.....	89	36	73	42	81	34	74	47	100	77	89	38	86	45	.....	.....	78	39	72	41	78	36	76	48	72	38
30.	.....	.....	87	26	71	45	84	45	88	39	92	77	91	41	87	31	.....	.....	85	26	86	41	76	23	82	53	84	39
31.	.....	.....	84	28	70	41	84	57	91	45	95	71	93	40	86	42	.....	.....	.....	.....	83	46	82	28	81	55	86	41
Mns	.....	.....	87.8	37.0	70.6	42.1	87.2	52.1	92.6	49.8	.....	.....	95.1	43.8	90.0	46.4	.....	.....	91.3[d]	43.3[d]	88.9	50.7	87.3	38.4	86.5	62.9	89.3	46.1