Climatological Data for July, 1909.

DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

SUMMARY

The usual and indeed characteristic feature of midsummer weather in southern California, Nevada, and western Utah is a prolonged rainless spell. Practically no rain, that can be directly connected with storm movements as they are understood, occurs in the district extending from the Valley of the Colorado westward to the Pacific and northward to Oregon and southern Idaho. Occasional afternoon thunderstorms form in the mountains; but less frequently in the Sierra Nevada and Sierra Madre, than in the Wasatch, Uintah, and the smaller isolated ranges of Nevada. But these thunderstorms, due to convectional currents, are not severe as a rule nor accompanied by heavy precipitation unless occurring in connection with the now well recognized type of southwestern storm—the Sonora. The storms moving from the northwestern States of Mexico are probably of subtropical origin and may be in some way connected with the storms traversing the Gulf of Mexico. The normal July pressure on the sea-level plane, for the district under consideration, is such that west-moving storms developing south of latitude 30°N. and west of the 110th meridian, drift naturally northwest. During the last week of July such a condition seems to have occurred. Beginning July 17 and lasting for about ten days unsettled, showery weather prevailed. In Nevada and Utah strong south or southwest winds, reaching velocities as high as 42 miles at Modena and 30 miles at Tonopah, were reported. During this period many thunderstorms occurred throughout the district. In the Salt Lake section precipitation amounted to more than one inch. While in southern Utah the amount was below this.

In detail the various storms were as follows: July 3–5, a thunderstorm condition showing little eastward progression. On July 17–21, an ill-defined circulation, with winds mostly from the south and southeast in Utah. On July 22 a well marked storm on the west Gulf of Mexico passed inland, that is, to the west. On the daily weather chart it was noted as apparently breaking up over the middle Rio Grande Valley; but there are grounds for believing that the Sonora storm of July 24–26, referred to above, was associated with this original disturbance on the Gulf. If such a relation can be proven, by reference to the Mexican reports, an important light will be thrown upon the origin of these Sonora storms.

NOTE FROM RECLAMATION SERVICE, BY PROJECT ENGINEER, FALLON, NEV.

It may interest you to know that we have completed negotiations which will allow us to use Lake Tahoe as a storage reservoir and that we are now engaged in building a dam at the outlet of the lake. The information gathered through the Weather Bureau correspondence regarding snowfall and run-off last winter has proven valuable to us, and I believe as this information accumulates we will be able to regulate the lake very closely.

Throughout District No. 10 there was almost 100 per cent of the possible sunshine, except in the Utah and eastern Nevada mountain sections, where afternoon cloudiness somewhat decreased the amount.

TABLE 1.—*Climatological data for July, 1909. District No. 10, Great Basin.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Wyoming.																				
Border	Uinta	6,085	7	62.4	+ 0.6	94	2	31	12	52	1.41	+ 1.02	0.43	0.0	5	18	9	4	w.	S. W. Condron
Evanston	do	6,860	13	62.1	+ 0.3	91	1†	33	12†	47	2.32	+ 1.60	0.82	0.0	5	22	9	0	w.	Frank Tucker
Idaho.																				
Geneva	Bear Lake										1.36		1.10	0.0	2	20	9	2		F. W. Boehme
Grace	Bannock	5,400	3	67.6	− 0.4	99	2	40	7†	51	1.44	+ 0.49	0.60	0.0	5	21	8	2	s.	E. A. Ekern
Oxford	do	4,750									1.38		1.00	0.0	3	26	5	0		Edwin Smith.
Paris	Bear Lake	5,946	13	64.0	+ 0.5	94	1	35	15†	56	1.31	+ 0.66	1.05	0.0					w.	John Norton.
Stone	Oneida	4,520	2								0.32	+ 0.15	0.30	0.0	2	25	6	0	s.	Thos. W. Roe.
Weston	do	4,610	12	67.6	− 0.4	99	2	37	7	50	1.38	+ 0.82	0.55	0.0	4	20	7	4	s.	Wm. T. Chatterton.
Utah.																				
Annabella[k]	Sevier	5,250	4	73.6		102	1	46	7	50	0.58	− 0.70	0.22	0.0	8	13	18	0	sw.	J. W. Fairbanks.
Beaver	Beaver	6,000	6	70.8	+ 3.8	97	1	49	28	38	1.12	− 0.15	0.37	0.0	5	18	9	4	sw.	James Connell.
Black Rock	Millard	4,872	9																	A. H. Cassell.
Blacksmiths Fork	Cache	5,500																		U. S. Forest Service.
Card Canyon	do	5,000																		Do.
Castle Rock	Summit	6,244	6								0.68	− 0.02	0.33	0.0	5	21	8	2	w.	David Moore.
Cedar City	Iron	5,750	4																	J. M. Foster.
Corinne	Boxelder	4,240	39	76.4	− 2.6	109	2	45	7†	52	1.17	+ 0.74	0.40	0.0	4	21	7	3		A. C. Murphy.
Coyoto	Garfield		8																	Mrs. E. Clayton.
Deseret	Millard	5,441	15	74.4	+ 2.4	103	1†	44	7	46	1.31	+ 1.16	0.50	0.0	5	21	5	5	s.	S. W. Weston.
Enterprise (near)	Washington	4,270	1								0.81		0.42	0.0	4	14	9	8	s.	John Day
Farmington	Davis	4,267	9	71.8	− 0.7	97	1	44	28	42	0.57	+ 0.20	0.23	0.0	5	23	8	0	nw.	Charles Boylin.
Fillmore	Millard	5,100	19	76.6	+ 1.3	108	1	45	27	45	0.79	+ 0.16	0.19	0.0	6					J. J. Storley.
Frisco	Beaver	7,318	15	74.2	+ 0.4	100	1	47	28	34	1.30	+ 0.54	0.75	0.0	3					E. R. Smyth.
Garland	Boxelder	4,350		71.6		100	1	43	12	52	0.64		0.40	0.0	2	25	3	3	s.	Harry B. Shaw.
Garrison[d]	Millard		6	72.0	− 0.5	98	1	42	28	40	0.62	+ 0.24	0.22	0.0	3	20	3	5	s.	E. M. Smith.
Golden Reef	Beaver	7,000									2.72		1.11	0.0	3					D. W. Woodward
Government Creek	Tooele	5,277	9	73.2	+ 0.1	101	1	39	28	43	1.06	+ 0.64	0.42	0.0	4	23	6	2	s.	Walter James.
Heber	Wasatch	5,606	16	67.0	+ 1.1	98	1†	38	8†	53	0.57	− 0.23	0.20	0.0	7	22	4	5	s.	John Crook.
Henefer	Summit	5,301	10	65.0	+ 0.2	98	2	33	28	54	0.96	+ 0.39	0.30	0.0	5	22	4	5	w.	Wm. Brewer.
Hoyts Canyon	do	7,400																		James Woolstenhulme.
Huntsville	Weber	5,100	14								1.97	+ 1.64	1.37	0.0	7	20	10	1		Lars Petersen
Ibapah (near)	Tooele	7,500	4																	E. S. Gamwell
Kanosh	Millard	5,250	1								0.76		0.29	0.0	5					Geo. Crane.
Kelton	Boxelder	4,230	31	69.6	− 6.8	97	3†	40	12†	52	0.15	− 0.21	0.15	0.0	4	14	16	1	sw.	F. W. Klock.
Levan	Juab	5,010	19	71.0	− 0.4	99	1	45	28	42	1.14	+ 0.54	0.33	0.0	8	23	4	4	sw.	Wm. Brown.
Logan	Cache	4,507	18																	State Agricultural College
Lucin	Boxelder	4,504	5	69.2	− 0.4	105	1	30	28	59	0.11	− 0.26	0.11	0.0	1	21	4	6		C. J. Burke.
Lund	Iron	5,086	1	69.2		93	1†	43	9†	41	0.40		0.40	0.0	1	14	7	10	sw.	M. E. Smith.
Manti	Sanpete	5,775	15	65.3	− 5.2	85	2	44	29	33	0.77	+ 0.20	0.40	0.0	3	17	5	9		J. M. Anderson.
Marion	Summit	6,750	5								0.67	+ 0.04	0.31	0.0	7	17	4	10	s.	James Woolstenhulme.
Marysvale	Piute	6,180	10	67.4	+ 1.1	96	1	40	28	58	2.20	+ 1.21	0.80	0.0	8	15	5	11	sw.	John W. Henry.
Meadowville	Rich	6,200	10																	J. S. Moffat.
Milford	Beaver	4,962	5	77.2		100	1†	42	23	44	0.55		0.40	0.0	2	23	0	8		C. M. Temple.
Millville	Cache	4,848	14								1.32	+ 0.94	0.63	0.0	6					Fred Yeates.
Minersville	Beaver	5,070	12								1.35	+ 0.78	0.65	0.0	3					Geo. Roberts.
Modena	Iron	5,479	9	70.8	+ 1.1	96	1	43	7	41	0.87	+ 0.56	0.47	0.0	4	15	14	2	sw.	U. S. Weather Bureau
Morgan	Morgan	5,080	6	67.3	+ 1.4	97	1	37	28	49	2.55	+ 1.91	1.50	0.0	5	16	14	1	nw.	W. Visick.
Moroni	Sanpete	5,519	1								1.46		0.78	0.0	5	5	25	1	sw.	B. F. Eliason.
Mount Nebo	Utah	4,650	8	75.4	+ 1.2	100	2	45	28	41	0.71	+ 0.26	0.35	0.0	3	22	8	1	s.	D. C. Wolkey.
Mount Pleasant	Sanpete	5,859	17																	Jane Martin.
Nephi	Juab	6,059	6								0.76	− 0.11	0.25	0.0	6	22	4	5	sw.	A. M. Madsen.
Nephi (near)	do	6,059									0.89	− 0.12	0.37	0.0	5	18	11	2	sw.	S. R. Boswell.
Oak City	Millard	4,900	5																	Jos. Finlinson.
Ogden (1)	Weber	4,310	8	73.4	− 0.7	97	1	50	28	32	1.05	+ 0.80	0.31	0.0	6	26	3	2	nw.	Enoch Farr.
Ogden (2)	do	4,310	39																	W. H. Chevers.
Panguitch	Garfield	6,560	1								0.37		0.15	0.0	6	18	0	13		F. C. Syrett.
Panguitch Lake	do	9,000																		James E. Prince
Park City	Summit	7,800	12	68.4	+ 4.0	99	1	40	7	51	2.66	+ 1.84	0.80	0.0	5	24	7			Irvin Evans.
Parowan	Iron	5,970	18	70.1	− 1.0	96	1	42	28	37	1.62	+ 0.78	1.02	0.0	6	19	0	12		Scott Matheson
Payson	Utah	4,637	6								0.46	− 0.03	0.20	0.0	6	19	3	9	sw.	D. L. Coombs.
Pinto	Washington	5,907	12	66.2	− 0.4	95	1†	36	28†	45	1.13	+ 0.08	0.37	0.0	6	16	3	9	s.	John H. Harrison.
Promontory	Boxelder	4,913	2								0.60	+ 0.40	0.60	0.0	2					F. C. Houghton.
Provo	Utah	4,532	17	72.0	− 1.1	100	2	45	28	46	0.47	+ 0.24	0.25	0.0	3	18	12	1	n.	James A. Oliver.
Randolph	Rich	6,442	6																	Wm. Rex.
Richfield[f]	Sevier	5,350	19	70.4	− 0.1	102	1	40	28	50	0.61	+ 0.06	0.38	0.0	3	14	0	11		Joseph J. Jensen.
Richins Summit	Summit	6,500									0.96		0.30	0.0	5					Ernest H. Brewer.
Saltair[e]	Salt Lake	4,220	6	75.6	− 0.8	95	1	55	7	31	1.88	+ 1.20	0.94	0.0	7					E. J. Bench.
Salt Lake City	do	4,366	35	74.5	− 1.7	101	1	52	28	32	0.75	+ 0.21	0.42	0.0	7	20	9	2	nw.	U. S. Weather Bureau.
Scipio	Millard	5,260	14	69.0	− 1.0	98	5	35	28	48	1.52	+ 0.88	0.90	0.0	5	18	5	8	sw.	Thos. Memmott.
Silver Lake	Salt Lake		1	61.7		90	2	33	28	49	1.04		0.35	0.0	6	18	6	7	e.	N. S. Fetherolf.
Soldier Summit	Utah	7,474	17																	Agent D. & R. G. Ry.
Spanish Fork Canyon	do			75.9		101	2	52	28	38	0.25		0.13	0.0	5	18	0	13		U.S. Reclamation Service
Thistle	do	5,075	17																	Agent D. & R. G. Ry.
Tooele	Tooele	4,900	13	71.4	− 2.2	97	1	46	28	38	1.90	+ 1.44	0.66	0.0	8	8	2	21	n.	E. A. Bonelli
Utah Lake Pump'g Sta.	do	4,500	4	71.6		94	2	47	7	35	1.28		0.78	0.0	6	20	11	0	se.	W. A. Knight.
West Canyon	Tooele	7,800									1.75		1.00	0.0	4					Walter James
Oregon.																				
Ana River	Lake										0.46		0.27	0.0	3	23	7	1	nw.	Curtis Duvall.
Burns	Harney	4,157	19	66.1	+ 0.6	95	2†	31	7	52	0.07	− 0.14	0.05	0.0	2	23	7	1	sw.	J. C. Welcome, jr.
Burns Mill	do										0.32		0.20	0.0	4	25	2	4	n.	John P. Sayer.
Cecils Ranch	do										1.13		0.50	0.0	6	17	7	7	nw.	H. D. Cecil.
Christmas Lake	Lake		1	57.2		93	2	20	18	56	0.60		0.35	0.0	5	15	7	9	nw.	John C. Green.
Paisley	do	4,500	5	64.4	− 1.6	89	2	35	7	36	0.23	− 0.43	0.13	0.0	2	20	6	5	sw.	E. C. Woodward.
"P" Ranch	Harney										0.53		0.42	0.0	4	23	7	1	e.	A. M. Byrd.
Silver Lake	Lake	4,700	14	60.4	− 4.3	92	3†	25	18	54	0.43	− 0.05	0.20	0.0	4	23	1	7	n.	E. K. Henderson.
California.																				
Truckee	Nevada	5,819	38	59.5		86	14	32	5		T.									Agent Southern Pac. Co.
Nevada.																				
Austin	Lander	6,594	21																	
Battle Mountain	do	4,843	39	75.0	− 0.2	112	4	35	6	62	T.	0.13	T.	0.0	0	28	2	1	s.	
Beowawe	Eureka	4,905	39	69.0	− 8.2	100	21	36	29	56	0.00	− 0.22	0.00	0.0	0	31	0	0	s.	
Carlin	Elko	5,232	39	70.2	− 0.4	108	3	30	6†	66	0.00	− 0.11	0.00	0.0	0	28	0	3	s.	
Carson Dam	Churchill	4,032	3	71.9		96	2	43	5	45	0.00		0.00	0.0	0	27	2	2	w.	
Cherry Creek	White Pine	6,450	1	70.6		97	1	38	6	46	0.57		0.20	0.0	5	15	16	0	sw.	
Clover Valley	Elko	6,000	10	67.6		97	1	38	6†	46	0.93		0.53	0.0	3	19	10	2		
Cobre	do			64.0	− 9.5	98	18†	29	28	58	0.71	+ 0.55	0.57	0.0	4	24	5	2	se.	

TABLE 1.—*Climatological data for July, 1909. 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	Esmeraldo	5,750	3			97	12†				0.85		0.58	0.0	2	28	3	0	se.	
Dutton	Elko	5,100	2									0.00		0.0					sw.	
Elko	do	5,342	39	66.2	− 4.7	99	1	32	27	55	0.30	+ 0.04	0.17	0.0	4	18	4	9	ne.	
Ely	White Pine	6,421	19	71.6	+ 4.6	96	1	45	7	44	0.16	− 0.37	0.08	0.0	3	26	5		w.	
Eureka	Eureka	6,500	7	79.2		98	1	31	6	46	0.38		0.10	0.0	7	19	7	5	s.	
Fallon	Churchill	3,965	5	70.6	− 2.9	98	2†	39	6	48	T.	− 0.10	T.	0.0		20	11		nw.	
Fernley	Lyon	4,200	2	70.8	− 7.1	100	2	40	6	48		− 0.31		0.0		26	5	0	w.	
Gardnerville	Douglas	4,830	10	65.8		96	1	30	6	59	T.		T.	0.0		23	7	1	s.	
Geyser	Lincoln		5																	
Golconda	Humboldt	4,697	31	72.2	− 4.1	103	15	33	6	54		− 0.07		0.0		24	4	3	nw.	
Halleck	Elko	5,631	17			94	5†				0.01	− 0.39	0.01	0.0	1	20	10	1		
Hamilton	White Pine	7,977	3	53.6		70	15†	23	6	38				0.0		21	3	7	sw.	
Humboldt[d]	Humboldt	4,236	39	71.6	− 2.4	100	1	40	28	43		− 0.04		0.0		30		1	sw.	
Jean	Clark	2,074	2			109	12†				0.03		0.03	0.0	1					
Leetville	Churchill	4,020	3	70.4		98	2†	40	6	49				0.0		30	1	0	w.	
Lewers Ranch	Washoe	5,500	22	64.6	− 3.1	91	11†	31	6	46				0.0		23	8	0		
Lovelock[c]	Humboldt	3,977	17	71.0	− 5.5	102	22	37	6	53	0.04	− 0.09	0.04	0.0	1					
McAfees Ranch	Esmeraldo	4,835	6																	
Millett	Nye		2	67.8		97	1	35	7	52	0.38		0.38	0.0	1	25	3	3	s.	
Mino	Esmeraldo	4,600	3	76.3		104	15	45	4	50				0.0		25	2	5	w.	
Palmetto	do	6,780	20																	
Potts	Nye	6,990	17	65.4	− 5.2	96	14	30	6	52	0.08	− 0.58	0.05	0.0	3	17	2	12	s.	
Quinn River Ranch[d]	Humboldt	4,850	8	66.6		96	2	28	6	56				0.0					sw.	
Reno	Washoe	4,532	39	67.4	− 0.1	95	2†	36	6	45	T.	− 0.14	T.	0.0		27	4	0	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	39			103	2							0.0		30		1	w.	
Tecoma	Elko	4,812	32	67.4	− 6.8	103	16	33	7†	61	0.31	− 0.15	0.36	0.0	2	11	13	7	n.	
Tonopah	Nye	6,090	3	73.4		94	13	40	6	37	0.20		0.19	0.0	2	26	5	0	se.	
Wabuska[a]	Lyon	4,347	7	68.0		98	2	37	6	53	T.		T.	0.0		27	4	0	nw.	
Wells	Elko	5,631	38	65.8	− 5.3	101	1	36	6†	54	0.13	− 0.13	0.10	0.0	2	19	9	3	s.	
Winnemucca	Humboldt	4,432	31	68.2	− 3.4	100	2	35	6	49	0.02	− 0.15	0.02	0.0	1	27	4	0	sw.	

* Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
** Precipitation included in that of the next measurement.
† Also on other dates.
§ 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.
[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

TABLE 2.—*Daily precipitation for July, 1909. District No. 10, Great Basin.*

Stations.	River basins.	Day of month. 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	Total.
Wyoming.																																	
Border	Bear				.30														T.	.25					.23	T.	.20	.43					1.41
Evanston	...do			T.	.82	.47													.08						.70		.25						2.32
Idaho.																																	
Geneva	Bear																										1.10	.26					1.36
Grace	...do			.30	.60	.02															T.				T.		.18	.34	T.				1.44
Oxford	...do																							.12			.26	1.00					1.38
Paris	...do				.11																						1.05	.05					1.21
Stone	Deep Creek	.02			T.																				T.		T.	.30					0.32
Weston	Bear			.07		.55																					.32	.44					1.38
Utah.																																	
Annabella	Sevier			T.		.01												.01	.22	.07	.02		.10	T.		.11	.04						0.58
Beaver	...do	T.	T.	.17	T.													.03	.37	T.		T.	.23	T.		.32							1.12
Black Rock	...do																																....
Blacksmiths Fork	Bear																																....
Card Canyon	...do																																....
Castle Rock	Weber		.10	.05		.33									T.				.08							.12							0.68
Cedar City	Desert																																....
Corinne	Bear				.40													.09		T.						.30	.38						1.17
Coyoto	Sevier																																....
Deseret	...do																	.10	.40	.50			.10			.21							1.31
Enterprise (near)	Desert	T.	.33	.04																					.42		.02						0.81
Farmington	Great Salt Lake			.23	.16														T.	T.	.03		T.			.09	.06						0.57
Fillmore	Sevier		T.	.14	.06													T.	.15	.10			.19			.15						T.	0.79
Frisco	Desert		.25																	.30							.75						1.30
Garland	Bear																										.24	.40					0.64
Garrison	Desert		T.	.22																			T.		.20		T.						0.42
Golden Reef	...do																			1.11				.94	.67								2.72
Government Creek	...do			.24														T.	.28	.42			T.			T.	.12						1.06
Heber	Jordan			.10	.08										.05			.05		.04			.05			T.	.20						0.57
Henefer	Weber		T.	T.	.30	.29									T.			T.	T.	.22	T.		.01	T.		T.	.14	T.					0.96
Hoyts Canyon	...do																																....
Huntsville	...do			1.37	.17														.03	.04			.02			.25	T.	.09					1.97
Ibapah (near)	Desert																																....
Kanosh	Sevier			.20															.08	.02			.29			.17							0.76
Kelton	Great Salt Lake																										.15						0.15
Levan	Sevier		T.	.33	.17													.08	.25	.05			.20	.02		.04							1.14
Logan	Bear																																....
Lucin	Desert			T.	T.																			T.	T.	T.	.11						0.11
Lund	...do																		T.	T.			T.	T.		T.	.40						0.40
Manti	Sevier	T.			T.													T.	.17	.20	T.		.40				T.						0.77
Marion	Weber			T.		.03									.03			.03	.12		T.		.15			.01	.30						0.67
Marysvale	Sevier		T.	.35	.19	T.												.15	.32	.80		T.	.21	.05		T.	.13						2.20
Meadowville	Bear																																....
Milford	Sevier																							.15		.40							0.55
Millville	Bear				.09														.06							.19	.63	.35					1.32
Minersville	Sevier			.65																T.			.18			.52							1.35
Modena	Desert	T.	.47	.10															T.	T.			T.	.25	T.	.05							0.87
Morgan	Weber			T.	1.50	.50															.05					.05	.45	T.					2.55
Moroni	Sevier			T.	.25										T.				.14	.78			.24	T.			.05						1.46
Mount Nebo	Jordan			.35																.03			T.				.33						0.71
Mount Pleasant	Sevier																																....
Nephi	Jordan			.25	.02														.11	.08			.17				.13						0.76
Nephi (near)	...do			.37	.05													.20	.09				.18										0.89
Oak City	Sevier																																....
Ogden (1)	Weber				.31	.20													.09	.02							.27	.16					1.05
Ogden (2)	...do																																....
Panguitch	Sevier	T.			.03													.04	.02		T.		.03	.15	T.	.10							0.37
Panguitch Lake	...do																																....
Park City	Weber			.56															.80	.30							.40	.60					2.66
Parowan	Desert		.05	.21															.14			.15	.05			1.02							1.62
Payson	Jordan			.05	T.													.03	.10	.05			.03				.20					T.	0.46
Pinto	Desert		.09	.28	0.8														T.		T.		.20	.11		.37							1.13
Promontory	Great Salt Lake																									*	.60						0.60
Provo	Jordan																	T.	T.	.25						.10	.12						0.47
Randolph	Bear																																....
Richfield	Sevier			T.														T.	.38	T.	T.	T.	T.	.13			.10					T.	0.61
Richins Summit	Weber				.30	.29														.22			.01				.14						0.96
Saltair	Great Salt Lake	.94			.22	.55													.02	.03			.03		*	T.	.09						1.88
Salt Lake City	Jordan			.03	.09										T.				.16	.30			T.	T.		.07	.05	.05					0.75
Scipio	Sevier			.90	T.														.35	.07			.11				.09						1.52
Silver Lake	Jordan			.27	.17										.02			T.		.35	T.		.06				.17					T.	1.04
Spanish Fork Canyon	...do			.02															.04	.13			.02				.04						0.25
Thistle	...do																																....
Tooele	Great Salt Lake			T.	.34	.02									.06				.17	.56	T.		.01			.66	.08					T.	1.90
Utah Lake Pump'g Sta.	Jordan			T.	T.													.04	.13	.06					.78	.25	.02					1.28
West Canyon	Desert			.35															*	1.00						.40							1.75
Oregon.																																	
Ana River	Interior Drainage					.27	.06			.13																							0.46
Burns	...do							.02		.05																		T.					0.07
Burns Mill	...do				.04	.20	.03		.05																		T.						0.32
Cecils Ranch	...do					.22	.03	.02	.50	.33																		.03					1.13
Christmas Lake	...do					.05	.13			.35	T.																.03	.04					0.60
Paisley	...do						.10			.13																							0.23
"P" Ranch	...do								.08	.01	.42																	.02					0.53
Silver Lake	...do					.20	.10			.08																	.05						0.43
California.																																	
Boca	Truckee																																0.00
Bodie	East Walker																																....
Bridgeport	...do																																..
Donner Ice Camp	Truckee																																....
Fales Hot Springs	West Walker																																0.00
Hobart Mills	Truckee																																...
Lundy	East Walker																																...
Marklesville	Carson																																....
Shields Ranch	West Walker																																..
Silver Creek	Carson																																....
Tahoe	Truckee																																....
Truckee	...do																																....
Nevada.																																	
Austin	Reese																																....
Battle Mountain	Humboldt				T.																												T.
Beowawe	...do																																....
Buckskin	Walker																															T.	T.
Carlin	Humboldt																																0.00
Carson Dam	Carson																																0.00

TABLE 2.—*Daily precipitation for July, 1909. 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	
Nevada—Cont'd.																																	
Cherry Creek	Humboldt	.01		.09	.10									T.										.20		.17							0.57
Clover Valley	do		.53	T.	.04																						.36						0.93
Cobre	do			.01	.12																			T.		T.	.57	.01					0.71
Columbia	Desert		T.	.58	.27																												0.85
Dutton	Humboldt																																0.00
Elko	do		.08	.04																			.17									.01	0.30
Ely	do	.05		.03										T.											.08								0.16
Eureka	do	.05	.02	.03	.03																		T.	.08		.10	.07						0.38
Fallon	Carson		T.																														T.
Fernley	Truckee																																
Gardnerville	Carson																															T.	T.
Geyser	Humboldt																																
Glenbrook	Truckee																															T.	T.
Golconda	Humboldt																																0.00
Halleck	do																						.01										0.00
Hamilton	do																																
Humboldt	do																																0.00
Jean	Desert																						T.			.03							0.03
Leetville	Carson																																0.00
Lewer's Ranch	Truckee																																
Lovelock	Humboldt																										.04						0.04
McAfee's Ranch	Desert																																
Millett	Reese																							.38									0.38
Mina	Desert																																0.00
Mount Rose Ranch	Truckee																																T.
Palmetto	Desert																																
Paradise Valley	Little Humboldt																																
Potts	Reese	T.	T.	0.05																			.01	T.		.02							0.08
Quinn River Ranch	Humboldt																																0.00
Reno	Truckee																															T.	T.
Smith	West Walker																															.02	0.02
Soda Lake	Carson																																0.00
Sweetwater	East Walker																																0.00
Tecoma	Humboldt		T.	T.	0.01																			T.		T.	.30						0.31
Tonopah	Desert	.03	.17																				T.			T.							0.20
Wabuska	Walker		T.																													T.	T.
Wells	Humboldt	.10																								.03							0.13
Willow Point	Little Humboldt																																0.00
Winnemucca	Humboldt		T.																								.02						0.02
Yerington	Walker																																

TABLE 3.—*Maximum and minimum temperatures at selected stations, July, 1909. District No. 10, Great Basin.*

Date.	Wyoming.						Utah.																					
	Border.		Evanston.		Weston, Idaho.		Corinne.		Deseret.		Government Creek.		Marysvale.		Modena.		Ogden.		Parowan.		Provo.		Salt Lake City.		Burns, Oreg.		Elko, Nev.	
	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...	91	52	91	44	97	47	108	59	103	62	101	65	96	51	96	58	97	67	96	61	99	58	101	70	86	54	99	52
2...	94	46	91	46	99	54	109	65	103	63	98	81	94	55	96	62	96	69	91	67	100	60	98	70	95	49	92	56
3...	92	50	89	56	92	65	106	68	96	63	91	60	95	53	87	59	89	71	87	58	93	64	91	65	92	40	85	61
4...	86	55	77	55	88	57	93	63	92	59	88	56	82	57	84	58	85	61	86	58	89	61	88	58	90	38	78	44
5...	80	50	81	42	86	51	94	61	91	54	90	56	83	50	85	57	90	60	85	57	93	55	91	62	88	35	62	33
6...	84	40	78	44	85	45	93	54	88	52	85	60	81	47	81	55	78	51	88	53	84	52	75	58	78	36	74	34
7...	82	33	74	38	82	37	91	45	90	44	85	44	81	42	84	43	82	54	85	53	87	47	80	56	72	31	85	38
8...	86	34	78	38	88	40	98	54	90	58	89	61	87	42	84	49	87	58	.....	.....	91	47	88	58	86	35	78	33
9...	80	39	79	40	83	42	97	52	90	49	87	47	85	43	85	46	85	59	.....	.....	88	53	84	62	88	39	87	42
10...	78	44	75	40	85	52	92	59	90	59	90	60	83	48	86	49	84	63	.....	.....	90	54	84	68	90	45	86	52
11...	72	40	74	34	77	46	91	54	90	53	83	74	89	52	94	57	80	55	.....	.....	82	50	77	60	87	41	87	50
12...	76	31	75	33	82	40	90	49	90	55	88	74	88	51	94	56	83	52	.....	.....	85	48	82	56	84	42	90	42
13...	80	36	80	36	88	41	97	53	96	51	92	61	92	50	95	60	89	57	.....	.....	90	53	86	60	92	48	91	44
14...	83	33	81	42	89	40	100	56	98	56	93	60	91	50	93	56	89	61	90	59	94	58	86	62	94	50	92	51
15...	87	40	84	46	90	46	102	60	99	56	95	51	91	49	92	58	92	64	89	55	97	55	94	64	93	48	97	50
16...	83	41	86	47	96	50	105	55	98	65	97	65	90	48	91	58	94	66	89	54	98	54	97	70	92	42	96	50
17...	91	42	85	43	95	47	108	56	95	67	95	62	89	52	90	55	94	65	89	55	97	53	95	70	87	32	96	41
18...	90	40	78	58	90	63	101	54	88	65	87	59	84	56	85	66	85	61	85	56	87	54	84	60	87	49	88	44
19...	85	55	79	56	90	55	102	59	87	60	87	58	78	55	83	61	86	64	82	57	88	62	85	61	90	49	91	43
20...	82	42	77	54	87	50	89	57	90	63	88	60	83	52	87	58	86	64	83	56	91	57	85	67	92	42	91	56
21...	83	35	83	37	87	41	99	53	94	54	88	45	84	50	90	58	87	59	82	58	88	49	84	60	93	42	92	42
22...	86	41	77	54	90	45	88	57	92	63	75	55	77	58	79	58	84	64	76	60	82	55	86	66	93	51	93	60
23...	80	53	78	50	87	52	95	61	92	58	87	55	78	54	85	59	86	64	80	57	88	61	87	65	95	49	94	52
24...	85	42	80	45	90	50	99	62	93	60	91	60	84	51	88	57	89	65	88	54	90	56	92	66	92	44	94	43
25...	84	44	81	42	93	49	97	62	93	64	92	63	84	53	82	57	88	65	88	54	94	56	88	62	87	46	90	48
26...	70	53	73	50	82	55	87	57	82	54	82	51	78	53	78	50	77	58	82	50	84	59	83	60	85	42	82	36
27...	66	43	69	47	70	50	93	54	84	55	76	45	77	49	78	50	70	52	80	46	78	57	71	56	71	41	78	32
28...	78	36	73	33	79	40	88	45	87	45	83	39	82	40	82	45	79	50	79	42	84	45	80	52	78	45	82	33
29...	80	33	77	40	87	43	96	49	89	45	87	50	83	41	84	44	87	56	82	50	90	46	89	60	87	52	90	42
30...	86	34	82	40	90	42	100	48	94	53	91	55	86	41	88	47	89	58	84	51	92	47	91	61	89	56	90	38
31...	89	36	83	52	93	44	100	50	94	53	92	60	87	44	88	49	91	59	84	55	94	48	94	62	92	52	92	43
Mns	83.2	41.7	79.6	44.6	87.6	47.7	97.0	55.8	92.2	56.7	88.7	57.8	85.3	49.6	86.9	54.7	86.4	60.4	85.2[f]	55.0[f]	89.9	54.0	87.0	62.2	88.2	44.0	87.8	44.7

Date.	Nevada.																									
	Ely.		Eureka.		Fallon.		Jean.		Lovelock.		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.
1	96	54	98	60	96	55	.....	.....	.....	.....	97	51	103	65	94	53	93	54	99	43	94	70	95	58
2	92	54	96	58	98	59	.....	.....	.....	.....	95	53	98	65	96	48	95	58	96	44	92	68	100	57
3	91	63	88	59	97	59	.....	.....	.....	.....	90	59	96	60	91	53	88	58	97	60	88	63	95	60
4	87	67	85	52	92	52	.....	.....	89	42	90	55	92	45	86	50	84	48	87	49	86	61	89	53
5	83	52	85	51	82	44	.....	.....	74	50	79	39	94	58	78	45	62	46	86	43	80	46	72	43
6	86	53	77	31	74	39	.....	.....	77	37	78	37	90	50	69	28	73	36	86	39	76	40	71	35
7	82	45	85	39	83	44	.....	.....	89	49	85	35	90	56	79	42	83	41	88	33	82	51	82	42
8	88	58	84	50	87	54	.....	.....	99	50	83	42	91	57	.....	.....	81	46	90	34	81	59	86	53
9	86	60	88	46	88	48	.....	.....	85	50	87	39	94	55	.....	.....	80	48	92	36	84	58	86	48
10	90	56	84	46	88	50	100	.....	99	52	86	45	96	59	.....	.....	81	47	89	38	86	55	82	48
11	90	48	87	47	88	53	107	.....	94	54	90	50	103	60	.....	.....	88	50	92	47	91	63	84	49
12	92	50	92	47	95	53	109	.....	98	55	95	48	101	64	91	50	93	52	90	36	94	67	91	49
13	94	51	94	51	93	55	109	.....	100	63	95	48	94	63	92	52	93	54	94	42	94	66	90	53
14	93	49	94	49	95	53	105	.....	101	63	95	50	102	63	93	48	93	55	96	44	92	66	93	54
15	93	49	96	53	98	55	105	.....	100	52	95	57	104	62	94	42	91	58	101	42	92	68	96	53
16	92	51	95	55	98	50	105	.....	98	53	95	48	101	57	92	44	88	49	103	47	92	65	94	52
17	91	51	94	51	94	48	104	.....	95	42	93	46	96	51	88	38	82	52	101	42	89	63	90	45
18	91	51	90	49	88	45	102	.....	91	44	90	43	97	47	84	48	84	44	92	46	87	59	85	45
19	88	58	89	58	91	45	102	.....	94	47	90	39	95	50	84	36	79	49	89	42	86	60	87	42
20	88	55	89	45	84	47	102	.....	92	42	86	52	96	48	84	48	83	45	89	46	84	54	84	51
21	90	46	92	47	96	48	104	.....	101	50	92	40	101	57	94	38	92	47	96	33	90	64	93	52
22	82	55	92	64	98	54	102	.....	102	55	95	54	101	70	94	47	92	55	92	42	89	67	96	51
23	94	60	85	57	97	57	95	.....	100	56	85	55	100	60	94	59	91	54	93	47	89	62	95	55
24	90	59	90	53	96	53	102	.....	98	52	94	48	102	61	93	46	90	51	98	46	92	63	92	49
25	82	51	89	54	95	52	90	.....	95	48	93	49	89	53	90	54	85	47	90	47	88	64	90	48
26	93	53	79	53	84	51	94	.....	83	50	85	49	85	48	80	52	74	53	86	42	80	54	80	49
27	90	56	74	36	78	44	92	.....	80	41	76	48	89	50	80	31	76	45	83	42	77	45	71	38
28	86	55	82	38	83	43	94	.....	89	41	85	40	94	56	81	38	82	45	82	33	81	53	82	37
29	90	53	86	50	90	48	98	.....	93	45	87	43	95	56	88	40	86	50	92	41	84	59	89	42
30	84	56	90	51	91	55	102	.....	80	54	89	39	94	59	90	44	88	50	93	42	86	60	92	45
31	90	54	89	54	91	57	102	.....	95	52	88	44	89	53	94	46	86	53	91	47	85	64	94	45
Means	89.2	54.0	88.3	50.2	90.6	50.6	101.1[i]	.....	92.5[e]	49.0[e]	89.1	46.6	95.9	56.7	87.9[d]	45.2[d]	85.0	49.7	92.3	42.5	86.8	59.9	87.9	48.8