

CLIMATOLOGICAL DATA FOR SEPTEMBER, 1912.

DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL SUMMARY.

Like September of 1911 the weather during this month was very cool. The mean for the district as a whole was nearly 6° below the normal, and the month was one of the coldest on record. Killing frost occurred in practically every valley in Utah and in the northern half of Nevada. Some damage resulted from frost to alfalfa seed, tomatoes, and other crops.

The precipitation averaged about normal for the district. The first considerable snow fell this month. At Randolph, Utah, near the upper end of Bear Lake, the worst September storm ever known at that place was reported on September 13. Snow fell to a depth of 8 inches, lodging in the grain and making it difficult to harvest, and there was also considerable damage to lucerne.

The average number of rainy days was 3, clear days 18, partly cloudy days 7, and cloudy days 5.

TEMPERATURE.

The mean temperature for the Great Basin was 54.3° , or 5.7° below normal. The coldest portion of the district was in the northeastern part, and the warmest in the southern half of Nevada and in the more level portions of the Utah area west of the Wasatch Mountains.

The local mean temperatures ranged from 43° at Woodruff, Utah, to 65.4° at Jean, Nev. The greatest departures from the normal occurred in the northern part of the Utah area, and the least in the Oregon and western portion of the Nevada areas. The station reporting the greatest departure was Corinne, Utah, whose mean, 53.6° , was 11.6° below normal.

The following were the highest temperatures that occurred in the various areas of the several States of this district: 78° at Border, Wyo., on the 2d; 79° at Weston, Idaho, on the 2d and 3d; 94° at Iosepa on the 1st and at Low on the 2d, both in Utah; 82° at Cliff, Oreg., on the 18th; 79° at Tahoe, Cal., on the 18th; and 95° at Carlin

on the 1st and at Gardnerville on the 16th, both in Nevada.

The lowest temperatures were: 14° at Cokeville, Wyo., on the 21st; 23° at Weston, Idaho, on the 21st and 25th; 8° at Woodruff, Utah, on the 25th; 14° at Cliff, Oreg. on the 24th; 26° at Tahoe, Cal., on the 4th and other dates; and 8° at Geysers, Nev., on the 20th, 23d, and 30th.

As a rule, the first and last few days of the month were somewhat warmer than the normal, but the temperatures for the greater portion of the month were much lower than the seasonal average. The warmest weather occurred usually on the 1st and 2d, except in the Oregon, California, and western portion of the Nevada areas, where it occurred on or about the 19th. The lowest temperatures were observed from the 20th to the 25th, as a rule, although at a few stations they were observed earlier in the month.

PRECIPITATION.

The precipitation for the district averaged 0.62 inch, which is about normal. The largest amounts fell, as a rule, on the western slope of the Wasatch Mountains, and the least in the southern half of the Nevada area. As compared with the normal amounts, the precipitation was very irregular, but the greatest deficiencies occurred in the southern half of the district. The largest local monthly amount was 2.40 inches at Meadowville, Utah, while 15 stations reported no rain or only traces.

Most of the rain east of the western border of Utah fell previous to the 15th, but there were a few stations that reported light showers on the 20th, 23d, and 24th. Rain was especially heavy on the 8th, 9th, and 10th in the Utah area, when showers fell at practically every station. In the Oregon, California, and Nevada areas all the rain occurred previous to the 12th. The heaviest snow reported was 21.5 inches at Spooner's Ranch, in the Truckee Basin, at an elevation of 7,700 feet. Good rains and warmer weather, melting the greater portion of the snow, helped out the deficient water supply in that basin.

TABLE 1.—Climatological data for September, 1912. District No. 10, Great Basin.

Table with columns for Stations, Counties, Elevation, Length of record, years, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of overcast days), Sky, Prevailing wind direction, and Observers. The table lists data for various locations in Wyoming, Idaho, and Utah.

TABLE 1.—Climatological data for September, 1912. District No. 10—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.					Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			Prevailing wind direction.	
																	Number of partly cloudy days.	Number of overcast days.			Number of cloudy days.
<i>Utah—Continued.</i>																					
Vernon	Tooele	5,500							0.73	0.45	0	3	16	5	9	nw.	Glynn Bennion.				
Wendover	do	4,237		61.3		89	5	39	20	44	0.18		0.10	0	2	8	18	4	nw.	J. S. Cooper.	
Whisky Creek	Millard	4,850							0.90	0.90	0	1								George Stevens.	
Winder	Garfield	7,000																			
Woodruff	Rich	6,500	10	43.0*		75	3	8	25	58	0.70	+ 0.42	0.30	2.0	5	19	6	5		A. L. Eastman.	
<i>Oregon.</i>																					
Burns	Harney	4,157	21																	J. C. Welcome, Jr.	
Cliff	Lake	4,300	5	48.0		82	18	14	24	59	0.58		0.24	0	5	16	10	4	nw.	John C. Green.	
Faisley	do	4,500	9																	E. C. Woodward.	
Silver Lake	do	4,700	15	53.2	- 0.4	82	26	23	14†	52	0.46	- 0.17	0.31	0	2	21	7	2	n.	G. W. Marvin	
<i>California.</i>																					
Tahoe	Placer	6,240	2	49.3		79	18	26	4†	42	2.00		1.65	0	3	24	1	5	w.	R. M. Watson.	
Truckee	Nevada	5,819	41	50.6	- 5.3	79	20	27	4†	43	1.50	+ 1.20	1.50	T.	1	14	7	9	sw.	Southern Pacific Co.	
<i>Nevada.</i>																					
Austin	Lander	6,594	23	55.4	- 3.6	85	17†	27	4	46				4.0		21	4	5	n.	F. O. Booe.	
Battle Mountain	do	4,843	41	56.7	- 5.8	92	1	22	21	62	0.20	- 0.09	0.20	0	1	27	1	2	nw.	Southern Pacific Co.	
Boowawe	Eureka	4,905	41	52.8	- 8.4	83	28†	21	17	57	0.41	+ 0.13	0.34	T.	3	18	8	4	w.	Do.	
Carlin	Elko	5,232	41	53.8	- 4.3	95	1	14	24	70	0.28	+ 0.06	0.28	0	1	28	0	2	nw.	Do.	
Carson Dam	Churchill	4,032	5	58.2		86	19	31	25	43	0.30		0.26	0	2	21	3	6	w.	U. S. Reclamation Service.	
Cherry Creek	White Pine	6,450	4	53.2		80	2	26	5	44	0.42		0.42	0	1	18	8	4	w.	J. H. Leishman.	
Clover Valley	Elko	6,000	11	57.0	- 0.8	84	30	23	25	44	0.52	- 0.01	0.21	0	4	17	6	7	w.	I. F. Wiseman.	
Columbia	Esmeralda	5,750	5	58.8		86	19	31	4	42	0.10		0.04	0	3	23	7	0	nw.	A. Booth.	
Dry Farm	Elko	5,600	0	54.8		79	29	27	21†	43	0.00		0.00	0	0					Walfrid Sohlman.	
Elko	do	5,432	41	51.5	- 5.3	81	30	18	17†	58	0.40	+ 0.14	0.30	T.	4	17	5	8	w.	E. J. Clark.	
Eureka	Eureka	6,500	9	53.0		82	18	21	4	44	0.65		0.65	2.5	1	19	3	8	s.	Clay Simms.	
Fallon	Churchill	3,965	7	58.2		90	19	29	25	49	0.43		0.43	0	1	22	3	5	w.	U. S. Experiment Station.	
Fernley	Lyon	4,200	39	59.6	- 3.4	90	19	28	25	51	0.34	+ 0.16	0.26	0	3	17	6	7	nw.	Mrs. G. A. Steele.	
Gardnerville	Douglas	4,830	12	54.8*	- 6.5	95	16	30	5†	61*	0.61	+ 0.39	0.44	0	3				w.	Forest Service.	
Gerlach	Washoe		0	61.6		85	13	30	3	39				0		20	0	10	ne.	Western Pacific Co.	
Geyser	Lincoln		8	45.8		89	2	8	20†	73	T.		T.	T.	0	17	12	1	s.	Mrs. J. F. Wambolt.	
Glenbrook	Douglas	6,420	3	52.9		75	1†	31	9	37	1.43		0.60	6.8	5	23	6	1	sw.	C. C. Henningsen.	
Golconda	Humboldt	4,697	33	55.2	- 6.4	86	12	26	25	50	0.07	- 0.24	0.07	0	1	8	13	9	w.	Southern Pacific Co.	
Halleck	Elko	5,631	19																	Do.	
Hawthorne	Mineral	4,569	18	62.8†	- 1.9	89 ^a	19	35 ^b	4	41 ^m	0.00	- 0.22	0.00	0	0					G. B. Stannard.	
Jean	Clark	2,074	4	65.4 ^a		94 ⁿ	14	31 ^a	9	52 ⁿ	0.00		0.00	0	0					Salt Lake Route.	
Lahontan	Churchill	4,200	0	62.2		87	18	38	4†	41	0.17		0.14	0	3	24	3	3	w.	U. S. Reclamation Service.	
Lida	Esmeralda	6,037	0	59.8		89	12	28	5	42	T.		T.	0	0	25	0	5	nw.	L. F. Detwiler.	
Lewers Ranch	Washoe	5,500	24	56.7	- 3.6	84	19	31	4	43	2.20	+ 1.54	1.80	0	2	17	8	5		Ross Lewers.	
Lovelocks	Humboldt	3,977	18								0.98	+ 0.74	0.47	0	3					A. P. Tilford.	
McDermitt	do	4,700	23	54.7	- 7.2	82	18	29	24	42	0.97	+ 0.67	0.38	0	4	18	7	5		Scott Sterling.	
McGill	White Pine	6,338	21	51.8	- 3.4	81	19	21	15†	53	0.14	- 0.58	0.07	T.	4	22	3	5	n.	R. E. Middagh.	
Millet	Nye		4	53.8		86	19	22	22	46	0.20		0.20	0	1	19	5	6	s.	Fred J. Jones.	
Mina	Mineral	4,600	5	65.2		91	1	40	6†	46	0.00		0.00	0	0	30	0	0		Southern Pacific Co.	
Oasis Ranch	Esmeralda	5,106	0	57.4		84	1†	31	25	45	T.		T.	0	0	23	4	3	s.	A. S. Patterson.	
Potts	Nye	6,990	19	48.4	- 7.3	83	1	17	25	53	T.	- 0.28	T.	0	0	12	11	7	n.	Miss Mamie Potts.	
Quinn River Ranch	Humboldt	4,850	10	53.5	- 3.3	90	21	19	16	70	0.29	- 0.10	0.14	0	3	19	1	10	w.	F. M. Payne.	
Rebel Creek	do		0																	E. J. Hyatt.	
Reno	Washoe	4,532	41	58.4	- 1.3	89	19	35	25	43	0.39	+ 0.12	0.38	0	2	19	6	5	w.	U. S. Weather Bureau.	
Soda Lake	Churchill	4,534	5																	U. S. Reclamation Service.	
Tecoma	Elko	4,812	34	50.8	- 9.6	88	22	10	20	75	0.33	- 0.04	0.23	0	2	18	8	4	n.	Southern Pacific Co.	
Tonopah	Nye	6,090	7	60.3		82	19	35	4	28	0.01		0.01	0	1	21	8	1	se.	U. S. Weather Bureau.	
Wells	Elko	5,631	40	50.5	- 7.6	80	8†	20	25	58	0.00	- 0.12	0.00	0	0	22	0	8		Southern Pacific Co.	
Winnemucca	Humboldt	4,432	33	55.0	- 5.5	85	18	28	25	54	0.34	± 0.00	0.22	0	4	18	5	7	ne.	U. S. Weather Bureau.	

* 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, 1912. District No. 10—Continued.

Table with columns: Stations, Watershed, Day of month (1-30), Total. Rows include Oregon (Ana River, Bear Valley, etc.), California (Bijou, Boca, etc.), and Nevada (Arthur, Austin, etc.)

* Precipitation included in that of the next measurement.
† Separate dates of falls not recorded.
‡ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for September, 1912. District No. 10, Great Basin.

Table with columns for Date, Wyoming (Border, Evanston, Weston, Idaho), Utah (Corinne, Deseret, Government Creek, Meadowville, Modena, Ogden, Parowan, Provo, Richfield, Salt Lake City), and rows for days 1-30 and monthly means.

Table for Nevada with columns for Date and stations: Cherry Creek, Elko, Eureka, Fallon, Fernley, Hawthorne, Jean, Millett, Quinn River Ranch, Reno, Tacoma, Tonopah, Winnemucca, and rows for days 1-30 and monthly means.

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