

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEVADA SECTION.

HARVEY S. COLE, Section Director.
WAYLAND BAILEY, Acting Section Director.

VOL. XXIX. RENO, NEVADA, JULY, 1914. No. 7.

GENERAL SUMMARY.

The mean temperature for the State as a whole was slightly below the average; generally at the lower elevations it was above and at the higher elevations below the average. There were no abnormally warm or cool spells during the month and the changes from day to day were moderate, usually taking place in connection with movements of showers.

The precipitation was a little above the average and occurred in the form of local showers and thunderstorms, which were widely scattered; on 23 days there was a thunderstorm reported from some portion of the State, but the larger number of them occurred from the 19th to the 23d; the 7th was the only day on which no rain was reported within the State. The showers were light in the western portion and were heavier in the eastern portion of the State.

While the streamflow has decreased during the month, there is still plenty of water in the rivers. The snow lies heavy on the northwest slopes at high elevations in the southwestern portion and has not entirely disappeared in the northeastern portion.

In the southern portion the crops have been harvested under favorable conditions; in the northeastern portion apricots and harvest apples are ripe. In most of the central portion the range is in great need of rain.

PRESSURE.

The barometric pressure was nearly normal during the month with but slight fluctuations.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 45 stations, was 72.4 degrees. The mean for the 24 stations having ten or more years record was 0.6 degree below normal. Monthly means ranged from 58 degrees at Gold Creek to 91 degrees at Jean. The highest temperature recorded was 118 degrees at Leeland, on the 17th; the lowest, 32 degrees at Tecoma, on the 23d. Only once has a higher temperature been recorded in the State, 119 degrees in 1889.

HUMIDITY.

The mean relative humidity at the three regular Weather Bureau stations at 5 p. m. and 5 a. m. was 45 per cent, which was about normal. The amount of evaporation at Owyhee for the month was 6.16 inches; at Lahontan it was 13.21 inches.

PRECIPITATION.

The average precipitation for 50 stations in Nevada for July was 0.52 inch. This, for the 24 stations having ten or more years record, was 0.14 inch more than the normal and was 0.78 inch less than for July last year. Amounts at the four stations in the Columbia Basin averaged 0.73 inch; 18 stations in the Humboldt Basin, 0.56 inch; 10 stations in the Truckee Basin, 0.08 inch; four stations in the Carson Basin, 0.12 inch; seven stations in the Walker Basin, 0.44 inch; 14 stations in the minor basins, 0.66 inch. The greatest monthly amount reported in the State was 1.70 inches, at Sharp; the least reported was none at Lewer's Ranch and at Marlette Lake; a trace was reported from nine stations.

WIND.

The average wind velocity at the three Weather Bureau stations for the month was 7.0 miles per hour, which was one mile per hour more than the normal. The directions for the month were from the south, southwest and west. High winds were reported from several stations on the 11th, 12th, 19th and 24th.

SUNSHINE AND CLOUDINESS.

The average number of rainy days was 3; the number of cloudy days 5; both were slightly more than normal.

MISCELLANEOUS PHENOMENA.

Hail.—Cherry Creek, 13th; Millet, 19th; Searchlight, 10th; Shafter, 13th; Smith, 21st; Wells, 4th.

Thunderstorms.—(Date and number of stations reporting.) 1st, 1; 3d, 3; 4th, 2; 9th, 5; 10th, 3; 11th, 3; 12th, 1; 13th, 2; 15th, 1; 17th, 1; 18th, 2; 19th, 8; 20th, 12; 21st, 9; 22d, 6; 23d, 5; 25th, 1; 26th, 6; 27th, 3; 28th, 1; 29th, 1; 30th, 1; 31st, 2.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Average precipita- tion.	Number of days				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipi- tation.	Clear.	Partly cloudy.	Cloudy.	
1889	76.1	119	36	0.17	1	29	1	1	S
1890	74.0	118	28	0.15	1	23	6	2	SW
1891	70.4	102	26	0.53	3	17	8	6	W
1892	70.6	115	30	0.67	1	28	2	1	SW
1893	70.3	110	24	0.40	2	24	5	2	SW
1894	71.7	108	32	0.75	5	21	8	2	S
1895	62.9	109	14	0.13	1	21	6	4	W
1896	72.7	112	33	0.79	2	22	6	3	W
1897	69.4	116	25	0.28	1	26	3	2	SW
1898	73.5	114	30	0.12	1	23	6	2	W
1899	72.6	106	34	0.14	2	22	5	4	W
1900	70.6	113	33	0.37	1	23	4	4	W
1901	70.8	109	31	0.31	2	21	6	4	SW
1902	67.9	116	25	0.44	2	21	5	5	SW
1903	65.4	111	26	0.01	1	27	3	1	SW
1904	68.7	110	30	0.51	3	19	8	4	SW
1905	72.1	109	31	0.03	1	24	5	2	SW
1906	74.7	114	32	0.68	4	17	9	5	W
1907	69.2	113	27	0.06	1	22	6	3	S
1908	74.2	116	32	0.42	3	18	10	3	W
1909	69.5	112	28	0.14	2	23	6	2	S
1910	72.9	110	28	0.65	3	18	8	5	W
1911	70.9	109	30	0.31	3	17	10	4	W
1912	68.6	113	25	0.67	4	17	7	7	W
1913	69.1	113	18	1.30	6	16	9	6	W
1914	72.4	118	32	0.52	3	16	10	5	W
Entire period	70.8	119	14	0.41	2	21	6	4	W

CORRECTIONS.

May, 1914.—Cathedral Park, Cal., one day missing.

June, 1914.—Marlette Lake, one day missing; Paradise Valley, two days missing; Sand Pass, number of cloudy days, 6; McDermit, number of days with .01 or more precipitation, 9.

LATE REPORTS.

June.—Geyser, Lincoln County, mean temperature 51.2, highest 89 on 11th and 13th, lowest 10 on 7th and 9th, total precipitation 0.21 inch, number of rainy days 4, clear 14, partly cloudy 15, cloudy 1.

Jean, Clark County, mean temperature 81.0, highest 106 on 29th, lowest 57 on 9th, total precipitation trace, number of clear days 21, partly cloudy 7, cloudy, 2.

Quinn River Ranch, Humboldt County, mean temperature 62.1, highest 96 on 17th and 29th, lowest 27 on 23d, total precipitation 0.66 inch, number of rainy days 4, clear 8, partly cloudy 8, cloudy 6, missing 8.

Logan, Clark County, mean temperature 80.0, highest 112 on 28th, lowest 49 on 8th, total precipitation 0.06 inch, number of rainy days 2, clear 23, partly cloudy 4, cloudy 3.

Climatological data for July, 1914.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.					Number of days				Prevailing direction of the wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Length of record, years.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	With precipitation (0.01 inch or more.)	Clear.	Partly cloudy.			Cloudy.	
<i>Columbia Basin.</i>																						
Gold Creek ^b	Elko	6,600	1	62.0		86	+13	35	22	47	1	0.57		0.28	0	4	13	14	2	n	Forest Supervisor.	
Jack Creek	do	6,300	1								1	0.20		0.16	0	2	14	17	0	w	C. E. Butler.	
Owyhee	do	5,400	3	67.8		91	+20	39	22	46	3	0.96		0.43	0	6	16	12	3	sw	Frank Weber.	
San Jacinto	do	5,200	9	66.2	+0.8	93	+6	39	22	45	9	1.20	+0.79	0.48	0	5	22	7	2	s	J. S. Parnley.	
<i>Humboldt Basin.</i>																						
Arthur	Elko	6,500									4	1.60		0.40	0	6	11	13	7	.....	Isaac Woodhouse.
Battle Mountain	Lander	4,513	43	76.2	+1.3	101	+15	49	7	50	45	0.10	-0.08	0.10	0	1	17	0	14	se	Southern Pacific Co.	
Beowawe	Eureka	4,695	43								45				0						Do.	
Carlin	Elko	4,897	43	67.4	-4.1	93		2	40	41	51	0.47	+0.29	0.25	0	3	9	19	3	w	Western Pacific Co.	
Clover Valley	do	6,000	13	68.2	-7.3	91	+30	42	9	45	21	0.48	+0.23	0.48	0	1	3	24	4	nw	I. F. Wiseman.	
Dry Farm	do	5,600	2	68.8		89		18	35	21	46	0.37		0.35	0	2	9	19	3	sw	Walfrid Sohlman.	
Elko	do	5,063	43	70.8	+0.6	97	+8	32	22	49	44	0.33	-0.01	0.18	0	3	20	10	1	sw	Western Pacific Co.	
Eureka	Eureka	6,837	16	68.4	-2.3	91		18	45	5	41	1.18	+0.62	0.53	0	11	4	11	16	s	Clay Simms.	
Golconda	Humboldt	4,392	35	75.2	+0.7	94	+24	40	5	49	37	0.50	+0.30	0.50	0	1	27	2	2	sw	Southern Pacific Co.	
Halleck	Elko	5,229	21	71.6	+1.4	93		16	46	1	40	0.45	-0.25	T.	0	0	1	23	7	sw	Do.	
Hylton	do	7,081	1								4	0.21		0.13	0	2	18	13	0	.....	Chas. Toyne, sr.
Imlay	Humboldt	4,209	1	76.8	+1.0	96	+20	50	45	4	T.		-0.16	T.	0	0	27	4	0	.....	Southern Pacific Co.
Lovelocks	do	3,977	20								18				0					.....	High School.
Metropolis	Elko	6,500	1	71.0		96		29	43	22	44	0.61		0.20	0	5	2	11	18	sw	O. M. Lloyd.	
North Fork	do	6,500	1								5	1.09		0.60	0	5	4	12	15	sw	Chas. Pratt.	
Paradise Valley	Humboldt	4,500	1	68.8		96		29	42	49	51	0.22		0.17	0	3	23	8	0	sw	R. M. Taylor.	
Potts	Nye	5,040	21								23				0					.....	Miss Maud Potts.
Rochester	Humboldt	7,390	1								1				0					.....	S. G. Nims.
Rose Creek	do	6,350	1								1				0					.....	Henry Salvai.
Shafter	Elko	5,583	1	65.8		90	+12	39	23	49	1	0.68		0.28	0	7	21	10	0	w	Geo. Kurnat.	
Tecoma	do	4,812	36	65.6	-6.7	97		1	32	23	60	1.14	+0.95	0.56	0	6	11	16	4	w	Southern Pacific Co.	
Wells	do	5,631	42	73.6	+3.1	93		13	41	1	45	0.59	+0.32	0.16	0	9	16	5	10	.....	Do.
Winnemucca	Humboldt	4,344	35	72.0	+0.4	96		19	46	9	46	0.19	+0.02	0.17	0	3	18	12	1	sw	U. S. Weather Bureau.	
<i>Truckee Basin.</i>																						
Fernley	Lyon	4,150	41	73.8	-2.9	99		29	43	22	51	0.32	+0.08	0.20	0	2	22	9	0	.....	Mrs. G. A. Steele.
Glenbrook	Douglas	6,240	5								5				0					.....	C. C. Henningsen.
Lewers Ranch	Washoe	5,500	26	67.0	-1.0	91	+14	44	44	44	27	0.00	-0.22	0.00	0	0	3	26	2	.....	Ross Lewers.
Marlette Lake	do	7,900									1	0.00		0.00	0	0	18	8	5	w	V. & G. H. Water Co.	
Reno	do	4,532	27	70.6	+3.1	94		31	49	4	41	T.	-0.14	T.	0	0	25	5	1	w	U. S. Weather Bureau.	
Bijou, Cal.	Eldorado	6,230									5	0.12		0.09	0	2				.....	Chas. Young.
Cathedral Park, Cal.	do	6,400	2								2				0					.....	Carl Fluegge.
Deer Park, Cal.	Placer	6,500									5	T.		T.	0	0	19	10	1	.....	Miss Katherine Chandler.
Hobart Mills, Cal.	Nevada	5,900									5	0.10		0.10	0	1	27	1	3	s	S. E. Patterson.	
McKinneys, Cal.	Placer	6,225	5								5	0.08		0.08	0	1	22	7	2	s	Fred Jensen.	
Tahoe, Cal.	do	6,240	6	58.0		79	+16	35	5	40	5	0.00		0.00	0	0	30	0	1	w	Robert Watson.	
Tallac, Cal.	Eldorado	6,230	6								5	0.20		0.20	0	1	9	22	0	sw	J. H. Pomin.	
<i>Carson Basin.</i>																						
Fallon	Churchill	3,965	20	73.4	-0.1	97		26	50	22	45	T.	-0.18	T.	0	0	20	10	1	ne	U. S. Experiment Station.	
Gardnerville	Douglas	4,530	23	65.3	-2.3	89		16	40	30	44	T.	-0.38	T.	0	0	19	2	4	w	Forest Service.	
Lahontan	Churchill	4,200	2	79.0		100		18	54	21	38	4	0.09	0.05	0	2	24	6	1	w	U. S. Reclamation Service.	
Markleeville, Cal.	Alpine	5,525									5	0.39		0.23	0	2	21	9	1	s	Mrs. Mary Thornburg.	
Woodfords, Cal.	do	5,634									5				0					.....	G. P. Merrill.
<i>Walker Basin.</i>																						
Mina	Mineral	4,350	7	79.0	+1.4	96	+2	48	22	41	18	1.58	+1.27	0.80	0	4	9	0	22	.....	Southern Pacific Co.
Smith	Lyon	4,800									6	0.58		0.35	0	3	20	8	3	sw	C. M. Carter.	
Thorne	Mineral	4,200	1	75.6	-0.8	98	+2	50	1	45	1	T.	-0.17	T.	0	0	24	7	0	.....	Southern Pacific Co.
Yerington	Lyon	4,375	5	69.4	-2.1	91	+2	45	30	46	5	0.21	+0.07	0.20	0	2	16	10	5	sw	High School.	
Bridgeport, Cal.	Mono	6,500	1	59.6		85	+4	30	7	52	3	0.32		0.30	0	2	21	3	5	w	A. F. Scott.	
Lundy, Cal.	do	8,000									5	T.		T.	0	0	16	7	8	w	J. M. Duffy.	
Shields Ranch, Cal.	do	5,300									5	0.37		0.30	0	2	15	13	3	.....	Frank W. Chichester.
<i>Colorado Basin.</i>																						
Caliente	Lincoln	4,407	4	74.4		102	+6	44	29	50	4	0.10		0.10	0	1	26	0	5	sw	Salt Lake Route.	
Indian Springs	Clark	3,136	1	83.1		103	2	57	22	37	1	0.24		0.24	0	1	21	10	0	w	Ira McFarland.	
Lake Valley	Lincoln	1	1	67.2		92		1	36	1	56	1.13		0.61	0	5	11 ^a	14 ^a	5 ^a	s	Lake View Farming Co.	
Las Vegas	Clark	2,933	12	84.4	+2.7	107		8	60	6	44	1.40	+1.03	0.74	0	3	13	7	11	s	C. P. Squires.	
Logan	do	1,355	7	86.8	-0.3	111		7	62	+5	48	0.20	-0.08	0.12	0	3	21	9	1	s	Orin W. Jarvis.	
<i>Minor Basins.</i>																						
Cherry Creek	White Pine	6,450	6	70.0		94		13	46	5	44	1.26		0.59	0	11	15	14	2	w	J. H. Leishman.	
Columbia	Esmeralda	5,700	7	71.2		100		15	45	22	44	9	0.40	0.15	0	4	20	4	7	se	A. Booth.	
Gerlach	Washoe	3,931	2								2				0					.....	Western Pacific Co.
Geyser	Lincoln	6,055	10								10				0					.....	Mrs. J. F. Wambolt.
Jean	Clark	2,864	6	90.8		107		9	74	+1	32	7	0.03	0.03	0	1	21	8	2	sw	Salt Lake Route.	
Leelan	Nye	2,500	1	87.7		88		1	45	22	36	2	0.30	0.25	0	2	15	5	11	.....	Agent T. & T. R. R. Co.
Lida	Esmeralda	6,037	2	68.0		91		1	45	22	36	2	0.30	0.20	0	3	24	0	7	e	L. F. Detweiler.	
McDermitt	Humboldt	4,700	24	69.3	-4.4	94		31	40	21	41	T.	-0.30	T.	0	0	27	4	0	sw	F. M. Bullock.	
McGill	White Pine	6,338	4	71.4	+3.2	92	+7	48	22	39	4	0.72	+0.10	0.47	0	4	19	7	5	s	R. F. Middagh.	
Millett	Nye	6,002	6	67.6		90	+1	42	13	45	7	1.21		0.96	0	2	12	9	10	s	Fred J. Jones.	
Oasis Ranch	Esmeralda	5,106	2	71.0	+2.6	96		1	46	+22	46	2	0.84	+0.38	0.50	0	4	15	16	0	s	A. S. Patterson.
Pahrump	Nye	2,668	1								1				0					.....	

Daily temperatures for July, 1914.

Table with columns for Stations, days 1-31, and Mean. Rows are grouped by basin: Columbia Basin, Humboldt Basin, Truckee Basin, Carson Basin, Walker Basin, Colorado Basin, and Minor Basins. Each station entry includes maximum and minimum temperature values.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing from the record, the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged to