

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEVADA SECTION.

HARVEY S. COLE, Section Director.

VOL. XXIX. RENO, NEVADA, JUNE, 1914. No. 6.

GENERAL SUMMARY.

The weather was cool the greater portion of June, with a decidedly cool spell the first two weeks. The last three days were very warm. Frost occurred from the 4th to the 8th north of the 39th parallel. The greatest damage occurred in the Carson Valley, where corn, potatoes and garden truck were badly frosted. The ground was well covered with snow in northern and eastern portions on the 5th. The snow protected vegetation from the cold and was not as injurious to the hardy crops raised by dry farmers as expected. Showers were general the first week of the month, on the 19th and 20th, and on the 24th and 25th. The amount of precipitation for the State was considerably above normal. In all, except the western and southern portions, it was decidedly above. Several stations report from two to three inches precipitation. A 24-hour rainfall of 1.56 inches was reported at Winnemucca, on the 19th and 20th, which was the greatest 24-hour precipitation on record at that station. Stream flow keeps up well in all basins. The snow has disappeared up to 9,000 feet in southwestern portions, to 7,200 feet in northeastern portions. The range burned out some in the central portion of the State the last two weeks; but crops and ranges elsewhere are in excellent condition, due to stream flow and good showers. The first crop of alfalfa is nearly all cut. In the southern portion the second crop is about ready to cut and melon shipments have begun.

PRESSURE.

The barometric pressure was rather low the first ten days of the month, followed by a series of fluctuations the remainder of the month. The pressure for the entire month averaged slightly above the normal.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 42 stations, was 62.0 degrees. Lower means have been recorded several times in the past 26 years. The mean for the 21 stations having ten or more years record was 3.1 degrees below normal. Monthly means ranged from 51 degrees at Gold Creek, to 79 degrees at Las Vegas, and were below normal at all stations, except Las Vegas, Reno and San Jacinto. The highest temperature recorded was 114 degrees, at Leeland, on the 14th; the lowest, 12 degrees, at Elko, on the 6th. Higher temperatures have been recorded several times in June; lower in 1891 and 1904.

HUMIDITY.

The mean relative humidity at the three regular Weather Bureau stations, at 5 a. m. and 5 p. m., was 45 per cent, which was about six per cent above normal. The amount of evaporation at Owyhee for the month was 5.48 inches; at Lahontan, 8.50 inches. The number of rainy and cloudy days was greater than usual, reducing the amount of evaporation.

PRECIPITATION.

The average precipitation for 50 stations in Nevada, for June, was 1.26 inches. This, for the 21 stations having ten or more years record, was 0.83 inch more than normal, and was 0.73 inch less than for June last year. A larger amount has occurred but

once in June in the past 26 years, that was last year. Amounts at the four stations in the Columbia Basin averaged 1.69 inches. The average for 19 stations in the Humboldt Basin was 1.64 inches. The average for seven stations in the Truckee Basin was 0.80 inch. The average for four stations in the Carson Basin was 0.24 inch; for seven stations in the Walker Basin was 0.77 inch. The greatest local amount reported in the State was 3.91 inches at Rebel Creek. The least reported was 0.09 inch, at Pahrump.

WIND.

The average wind velocity at the three Weather Bureau stations for the month was 7.2 miles per hour, which was slightly less than normal. Several observers mention high winds on the 4th, 5th, 19th and 25th. The directions for the month were from the west and southwest, except in the southern portion where they were from the south.

SUNSHINE AND CLOUDINESS.

The average number of rainy days was 6; the number of cloudy days, 7. Both were considerably more than normal.

MISCELLANEOUS PHENOMENA.

Slight earthquake shock 7th, at Yerington.
Hail.—McDermitt, 25th; McGill, 2d and 4th; Rebel Creek, 25th; Owyhee, 5th and 6th.
Killing frost.—Beowawe, Clover Valley, Dry Farm, Hylton, Jack Creek, Metropolis, Owyhee, 6th; Eureka, Paradise Valley, 5th and 6th; Gold Creeek, 5th, 8th and 22d; Millett, 6th and 26th; North Fork, 4th, 5th, 21st and 22d; Smith, 4th, and Yerington, 8th.
Sleet.—Shafter on the 5th.
Thunderstorms.—(Date and number of stations reporting.) 1st, 7; 2d, 7; 3d, 4; 4th, 2; 9th, 1; 16th, 1; 17th, 1; 18th, 1; 19th, 8; 20th, 5; 24th, 1; 25th, 4; 28th, 1; 29th, 2; 30th, 1.

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Average precipita- tion.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.	With precipi- tation.		Clear.	Partly cloudy.	Cloudy.	
1889	70.0	110	30	0.22	2	18	7	5	S
1890	61.5	109	24	0.05	1	22	7	1	S
1891	59.8	97	8	1.18	5	14	7	5	W
1892	62.8	110	22	1.06	4	17	8	5	W
1893	63.8	100	18	0.04	0	28	2	0	SW
1894	57.8	92	20	1.12	5	12	10	5	SW
1895	62.9	109	14	0.13	1	20	6	5	SW
1896	63.7	117	25	0.22	2	19	7	5	SW
1897	62.8	112	20	0.37	3	16	7	6	W
1898	65.0	104	20	0.19	1	20	7	3	W
1899	63.7	103	21	0.60	2	22	4	4	W
1900	67.7	111	28	0.32	2	19	5	6	W
1901	59.1	99	21	0.15	1	19	8	3	SW
1902	66.3	116	20	0.04	0	24	3	3	SW
1903	66.5	113	28	0.45	3	17	8	5	SW
1904	63.6	106	11	0.04	1	21	5	4	SW
1905	61.9	101	24	0.11	1	21	5	4	S
1906	60.2	115	20	0.59	2	16	9	5	W
1907	56.9	111	18	1.09	3	13	9	2	W
1908	60.8	116	18	0.47	3	17	9	4	W
1909	65.5	112	24	0.28	1	19	7	4	W
1910	65.4	108	23	0.05	1	23	5	2	S
1911	62.8	109	20	0.74	4	14	10	6	W
1912	63.6	112	23	0.59	3	17	7	6	W
1913	61.8	106	28	1.99	8	11	9	10	W
1914	62.0	114	12	1.26	6	15	8	7	W
Entire period		117	8						W

CORRECTIONS.

May, 1914.—Elko, mean minimum temperature 37.5; mean temperature 57.6; minimum temperature 29; greatest daily range 56.
 Caliente, date of maximum temperature 25 and others.

Climatological data for June, 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 rec. ord., 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	51.0		83	†18	18	6	46	1	1.55		0.50	2.0	9	12	10	6	n	Forest Supervisor.		
Jack Creek	do	6,300	1								1	1.80		0.43	2.0	8	13	7	10	w	C. E. Butler.		
Owyhee	do	5,400	3	59.0		102		17	22	6	57	3	1.54		0.64	12	13	9	8	n	Frank Weber.		
San Jacinto	do	5,200	9	57.2	+0.2	93		19	31	†6	44	9	1.88	+0.19	0.50	4.0	9	14	5	11	nw	J. S. Parmley.	
<i>Humboldt Basin.</i>																							
Arthur	Elko	6,500									4	2.00		0.80	5.0	5	19	5	6		Isaac Woodhouse.		
Battle Mountain	Lander	4,843	43	64.2	-1.7	102		29	29	5	62	45	1.25	+0.74	0.70	T.	4	16	1	13		Southern Pacific Co.	
Beowawe	Eureka	4,905	43	58.6	-8.6	91		18	29	6	47	45	1.62	+1.17	0.60	0	6	8	18	4	nw	Do.	
Carlin	Elko	5,232	43	58.8	-3.9	94 ^b		19	25	5	58 ^b	43	1.10	+0.75	0.69	T.	4	4	16	10	w	Western Pacific Co.	
Clover Valley	do	5,000	13	57.4	-1.7	87		29	26	6	42	21	2.04	+1.28	0.75	T.	8	8	11	13	6	J. F. Wiseman.	
Dry Farm	do	5,600	2	57.2		87	†18	23	6	42	5	1.73		0.44	5.0	10	9	19	2	sw	Walrid Sohlman.		
Elko	do	5,432	43	56.6	-6.1	93		29	12	6	50	44	1.32	+0.72	0.32	1.7	7	20	1	9	sw	Western Pacific Co.	
Eureka	Eureka	6,500	16	59.1	-1.7	92		29	25	6	47	18	2.98	+2.04	1.05	0.5	6	6	8	10	12	s	Clay Simms.
Golconda	Humboldt	4,697	35	62.8		95		18	31	5	49	37	2.40	+0.72	0.95	T.	7	0	12	7	11	w	Southern Pacific Co.
Halleck	Elko	5,631	21	56.7	-4.9	90		28	29	22	45	45	2.40	+1.82	0.82	T.	4	4	14	12	sw	Do.	
Hytton	do	4,209									4	1.61		0.40	1.00	0	5	15	14	1		Chas. Toyne, sr.	
Inlay §	Humboldt	3,997	20	58.4	-8.5	95		29	33	9	45	15	1.50	+1.28	1.00	0	2	6	14	10	nw	Southern Pacific Co.	
Lovelocks	do	3,997	20	58.4		92		18	28	6	43	5	2.22		0.46	4.0	11	5	10	15	sw	High School.	
Metropolis	Elko	6,500	1	59.0							5	1.13		0.45	2.0	8	11	5	14	w	O. M. Lloyd.		
North Fork	do	6,500	1								5	1.37		1.05	T.	7	16	5	7	s	Chas. Pratt.		
Paradise Valley	Humboldt	4,450	1								5	1.05		0.25	0	3	8	11	11	n	R. M. Taylor.		
Potts ††	Nye	5,040	21	56.8	-5.0	94		29	26	6	54	23	0.50	+0.10	0.25	0	3	8	11	11	n	Miss Maud Potts.	
Rochester	Humboldt	7,300	1	58.3		90		28	24	5	42	1	1.62		0.80	T.	4	21	0	9	w	E. B. Mills.	
Rose Creek	do	6,350									4										Henry Salvai.		
Shafter	Elko	5,583	1	56.0		92		29	27	7	53	1	1.16		0.42	T.	8	15	7	8	w	Geo. Kernan.	
Tecoma	do	4,812	36	58.2	-4.6	96		30	15	6	66	37	0.82	+0.24	0.36	T.	8	8	19	3		Southern Pacific Co.	
Wells ††	do	5,631	42	57.6	-6.6	90	†18	27	6	48	45	1.17	+0.62	0.62	T.	3	8 ^a	19 ^a	2 ^a		Do.		
Winnemucca	Humboldt	4,432	35	61.2	-2.1	95		18	31	6	42	45	2.17	+1.53	1.56	0.1	9	13	7	10	ne	U. S. Weather Bureau.	
<i>Truckee Basin.</i>																							
Fernley	Lyon	4,200	41	63.8	-2.2	99		17	32	5	53	45	0.30	+0.08	0.18	T.	2	19	8	3	w	Mrs. G. A. Steele.	
Glenbrook	Douglas	6,240	5								5	2	0.84	+0.40	0.43	0	3	9	16	5		C. C. Henningsen.	
Lewers Ranch ††	Washoe	5,500	26	58.6	-1.4	89		28	27	5	44	27	1	0.86	0.40	1.0	3	17	5	7	w	Ross Lewers.	
Marlette Lake	do	7,900									1	0.86		0.40	1.0	3	17	5	7	w	U. & G. H. Water Co.		
Reno	do	4,532	27	61.6	+0.6	95		28	33	5	45	27	0.29	-0.05	0.26	T.	3	18	8	4	w	U. S. Weather Bureau.	
Bijou, Cal.	Eldorado	6,230									5	5									Chas. Young.		
Cathedral Park, Cal.	do	6,400	2								2										Carl Flogge.		
Deer Park, Cal.	Placer	6,500									5										Miss Katherine Chandler.		
Hobart Mills, Cal.	Nevada	5,300									5	1.21		0.75	T.	5	20	7	3	s	S. E. Patterson.		
McKinneys, Cal.	Placer	6,225	5								5	0.91		0.46	T.	3	17	5	8	s	Fred Jensen.		
Tahoe, Cal.	do	6,240	6	49.2		81		30	23	6	46	6	0.95		0.58	0	2	27	0	3	w	Robert Watson.	
Tahoe, Cal.	Eldorado	6,230									5	1.05		0.45	0	4	7	20	3	sw	J. H. Pomin.		
<i>Covson Basin.</i>																							
Fallon	Churchill	3,965	20	63.8	-0.8	97		29	33	8	47	20	0.56	+0.28	0.33	T.	5	17	10	3	w	U.S. Experiment Station.	
Gardnerville	Douglas	4,830	23	58.6†	-2.7	86	†17	30	8	45	24	0.12	-0.14	0.08	0	2	17 ^a	2	4		Forest Service.		
Lahontan	Churchill	4,200	2	67.8		100		28	33	3	44	4	0.32		0.18	0	5	14	13	3	w	U.S. Reclaim'n Service.	
Markleville, Cal.	Alpine	5,525									5	0.05		0.05	0	1	17	13	0	s	Mrs. Mary Thornburg.		
Woodfords, Cal.	do	5,634									5										G. P. Merrill.		
<i>Walker Basin.</i>																							
Mina §	Mineral	4,600	7	66.6	-3.0	98		29	32	8	50	18	0.69	+0.45	0.15	0	8	18 ^a	0 ^a	11 ^a		Southern Pacific Co.	
Smith	Lyon	4,000									6	0.85		0.56	0	3	13	4	13	sw	C. M. Carter.		
Thorne §	Mineral	4,200	1	65.4	-2.9	98	†18	35	5	51	1	0.40	+0.16	0.40	0	1	21	5	4	w	Southern Pacific Co.		
Yerington	Lyon	4,375	5	61.7		91		17	30	8	41	5	0.58		0.46	T.	5	19	10	1	sw	High School.	
Bridgport, Cal.	Mono	6,500	1	53.8		84		28	25	8	53	3	0.12		0.04	0	3	19	5	6	w	A. F. Scott.	
Lundy, Cal.	do	8,000									5	2.58		1.08	1.5	4	22	2	6	6	J. M. Duffy.		
Shields Ranch, Cal.	do	5,300									5	0.19		0.19	0	1	12	15	3		Frank W. Chichester.		
<i>Colorado Basin.</i>																							
Caliente ††	Lincoln	4,407	4	61.4		90	†25	38	2	36	4	0.01		0.01	0	1	22	0	8	s	Salt Lake Route.		
Indian Springs	Clark	3,136									1										Ira McFarland.		
Lake Valley	Lincoln	2,033	12	79.0	+3.3	110		29	49	9	48	12	0.45	+0.31	0.40	0	3	22	1	7	s	Lake View Farming Co.	
Las Vegas	Clark	2,033	12	79.0	+3.3	110		29	49	9	48	12	0.45	+0.31	0.40	0	3	22	1	7	s	C. P. Squires.	
Logan §	do	1,355	7								15										Orin W. Jarvis.		
<i>Minor Basins.</i>																							
Cherry Creek	White Pine	6,450	6	59.2		96		29	28	6	47	6	2.31		0.70	1.0	8	18	6	6	w	J. H. Leishman.	
Columbia	Esmeralda	5,750	7	63.0		96		30	32	6	44	9	1.28		0.54	0	7	20	5	5	se	A. Booth.	
Gerlach	Washoe	3,931	2	65.1		97		17	36	5	41	2	0.36		0.15	T.	6	12	12	6	w	Western Pacific Co.	
Geyser	Lincoln	6,055	10								10										Mrs. J. F. Wambolt.		
Jean	Clark	2,074	6								7										Salt Lake Route.		
Leeland	Nye	2,500	1	78.2		114		14	45	8	58	1	0.60		0.60	0	1	20	7	3		Agent T. & T. R. R. Co.	
Lida	Esmeralda	6,037	2	61.4		95		15	29	6	41	2	1.13		0.71	0	4	23	4	3	nw	L. F. Detweiler.	
McDermitt	Humboldt	4,700	24	58.6	-6.4	91		18	29	†5	40	24	1.92	+1.10	0.60	T.	8	16	8	6	sw	Geo. H. Beaman.	
McGill §	White Pine	6,338	4	61.4	-4.6	94		29	25	6	48	4	3.08	+2.62	1.20	T.	9	18	7	5	s	R. E. Middagh.	
Millett	Nye	6,062	6	59.5		93		29	28	6	54	7	0.72		0.45	0							

Daily temperatures for June, 1914.

Table with columns for Stations, 1-31, and Mean. Rows include various basins like Columbia Basin, Humboldt Basin, Truckee Basin, Carson Basin, Walker Basin, Colorado Basin, and Minor Basins, listing maximum and minimum temperatures for each day.

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

LATE REPORTS.

April.—San Jacinto, Elko County, mean temperature, 45.0; highest, 68 on the 15th; lowest, 26 on the 7th; total precipitation, 0.17 inch; number of rainy days, 1.

Clover Valley, Elko County, mean temperature, 45.4; highest, 72 on the 19th; lowest, 19 on the 17th; total precipitation, 1.55 inches; number of rainy days, 10; clear, 3; partly cloudy, 13; cloudy, 14.

May.—Clover Valley, Elko County, mean temperature, 53.3; highest, 82 on the 30th and 31st; lowest, 25 on the 5th; total precipitation, 0.18 inch; number of rainy days, 2; clear, 12; partly cloudy, 12; cloudy, 7.

Mina, Mineral County, mean temperature, 62.3; highest, 91

on the 29th; lowest, 31 on the 1st; total precipitation, 0.35 inch; number of rainy days, 3; clear, 20; partly cloudy, 2; cloudy, 9; prevailing direction of the wind, northwest.

San Jacinto, mean temperature, 50.3; highest, 76 on the 31st; lowest, 28 on the 1st and 12th; total precipitation, 1.60 inches; number of rainy days, 3.

Cathedral Park, Eldorado County, Cal., mean temperature, 49.8; highest, 71 on the 30th; lowest, 30 on the 6th; total precipitation, 0.66 inch; 17 clear days, 8 partly cloudy and 5 cloudy.

Woodfords, Alpine County, Cal., total precipitation, 0.20 inch; number of rainy days, 2; clear, 27; partly cloudy, 1; cloudy, 3.