

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEVADA SECTION.

HENRY F. ALCIATORE, Section Director.

VOL. XXX. RENO, NEVADA, JULY, 1915. No. 7.

GENERAL SUMMARY.

With the exception of cloudbursts in Douglas County on the 22d, and in Nye County on the 26th, the month's weather was uneventful. The temperature was variable and, on the whole, slightly below normal. At Reno and in several localities in the south and east the monthly means were above normal but over the rest of the State they were below. There were two or three unseasonably cool days in the first and last decades. The extremes of temperature, 31° in Nye County and 110° in Lincoln County, were within the limits of previous years.

The bulk of the month's rainfall occurred in the first and last decades. At one station in Washoe County, and in several places in the southern counties, the fall was from 1 to 3.5 inches; six other stations recorded falls of .5 to 1 inch; elsewhere the fall was less than .5 inch. As compared with the normal, there were deficiencies at 23 out of 31 stations.

On the afternoon of the 22d Dayton, in Douglas County, narrowly escaped destruction when a wall of water between four and five feet in depth swept down on the opposite side of the river, due to a cloudburst that occurred in the El Dorado canyon district about 2 p. m. One railroad bridge and a number of irrigation ditches were damaged by the flood waters, and some of the placer mines at Buckeye, in the Pine Nut range, were put out of business for the season, with a loss of several thousands of dollars. At Sharp, in Nye County, an unprecedented rainfall of 3.50 inches occurred on the 26th in the brief space of two hours, probably the result of a cloudburst.

By the close of the month the staple crops were in excellent condition and good yields were expected. District Freight Agent J. M. Fulton, of the S. P. R. R., stated that "more wheat would be grown and marketed in Nevada in 1915 than in any other 10 years combined since its admission into the Union." Livestock was in good condition, generally. In some of the central and eastern counties the ranges were in poor condition, owing to the small snowfall of last winter and the deficient rainfall of summer, and many sheepmen had to move their flocks to new pastures. Two large crops of alfalfa had been cut and stacked under exceptionally favorable conditions, and the fruit outlook was generally good despite the severe freeze of last May.

TEMPERATURE.

The monthly mean for the State, as shown by the records of 43 stations, was 70.8°. The mean for the 29 stations having ten or more years record was 1.5° below the normal. The highest recorded was 110°, at Caliente on the 13th; the lowest was 31° at Potts on the 31st. The greatest daily range was 57° at Potts on the 19th and 31st. The highest monthly mean was 84.4°, at Logan. The lowest monthly mean was 56.2°, at Gold Creek.

PRECIPITATION.

The average for 54 stations reporting was 0.38 inch. For the 32 stations having ten or more years record, the mean was 0.08 inch below the normal. The average amount at 3 stations in the Columbia Basin was 0.29 inch; at 19 stations in the Humboldt Basin, 0.14 inch; at 9 stations in the Truckee Basin, 0.18 inch; at 4 stations in the Carson Basin, 0.29 inch; at 4 stations in the Walker Basin, 0.44 inch; at 3 stations in the Colorado Basin, 1.59 inches; at 20 stations in the minor basins, 0.52 inch. The greatest monthly fall was 3.50 inch at Sharp on the 26th. No precipitation was reported at 6 stations. The average number of days with precipitation for the State was 2.

SUNSHINE AND CLOUDINESS.

At Reno 90 per cent of the possible sunshine was recorded; at Winnemucca, 86 per cent; at Tonopah, 87 per cent. For the State, the average number of clear days was 19; partly cloudy, 8; cloudy, 4.

PRESSURE, HUMIDITY, AND WIND DATA.

Stations.	Barometric Pressure (sea level)			Mean relative humidity		Wind.			
	Mean.	Highest.	Lowest.	5 a. m.	5 p. m.	Average hourly velocity	Maximum velocity		
							Miles per hour	Dirac. Date.	
Reno.....	29.86	30.08	29.60	60	23	7.6	34	w	13
Winnemucca.....	29.88	30.18	29.61	57	21	5.8	28	nw	30
Tonopah.....	29.86	30.12	29.61	48	20	8.3	37	nw	5

MISCELLANEOUS PHENOMENA.

(Dates of)

Hail.—23, 26.

Thunderstorms.—2, 3, 4, 5, 6, 7, 8, 12, 19-27, 30, 31.

Brisk Winds.—2, 3, 4, 5, 11-17, 22, 26, 27, 30.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Average precipi- tation.	Average snowfall.	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	0	1	22	1	2	SW
1891.....	70.4	102	26	0.53	0	3	17	8	6	S
1892.....	70.6	115	30	0.67	0	1	23	5	3	W
1893.....	70.3	110	24	0.40	0	2	26	4	1	SW
1894.....	71.7	108	32	0.75	0	5	17	9	5	S
1895.....	70.2	112	28	0.65	0	1	25	4	2	W
1896.....	72.7	112	33	0.79	0	2	14	12	8	W
1897.....	69.4	116	25	0.28	0	1	20	7	4	SW
1898.....	73.5	114	30	0.12	0	1	23	5	2	W
1899.....	72.6	106	34	0.14	0	2	22	5	4	W
1900.....	70.9	113	33	0.34	0	1	23	4	4	W
1901.....	70.8	109	31	0.31	0	2	21	6	4	SW
1902.....	67.9	116	25	0.44	0.5	2	21	5	5	SW
1903.....	65.4	111	26	0.01	0	1	27	3	1	SW
1904.....	68.7	110	30	0.51	0	3	19	8	4	SW
1905.....	72.1	109	31	0.03	0	1	24	5	2	SW
1906.....	74.7	114	32	0.68	0	4	17	9	5	W
1907.....	69.2	113	27	0.06	0	1	22	6	3	S
1908.....	74.3	116	32	0.42	0	3	18	10	3	W
1909.....	69.5	112	23	0.14	0	2	23	6	2	S
1910.....	72.9	110	28	0.65	0	3	18	8	5	W
1911.....	70.9	109	30	0.31	0	3	17	10	4	W
1912.....	68.6	113	25	0.67	0	4	17	7	7	W
1913.....	69.1	113	18	1.30	0	6	16	9	6	W
1914.....	72.4	118	32	0.52	0	3	16	10	5	W
1915.....	70.8	110	31	0.38	0	2	19	8	4	W
Entire period.....	71.1	119	18	0.40	T.	2	20	7	4	W

Climatological data for July, 1915.

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	Elko	6,600	2	56.2		80	+20	33	+15	46	2	0.05		0.05	0	1	24	6	1	s	Forest Supervisor.	
Jack Creek**	do	6,300										0.71		0.56	0	2	21	9	1	w	C. E. Butler.	
Owyhee	do	5,400	4												0						Indian Service.	
San Jacinto	do	5,200	10	65.2	-0.2	93		22	33	18	53	10	0.10	-0.39	0.04	0	5	22	6	3	sw	J. S. Parnley.
<i>Humboldt Basin.</i>																						
Arthur	Elko	6,500										5	0.00	-0.79	0.00	0	0	31	0	0		Isaac Woodhouse.
Austin	Lander	6,594	26	67.0	-1.8	91		19	41	+6	40	26	0.14	-0.31	0.08	0	4	27	4	0		Forest Service.
Battle Mountain	do	4,513	44	76.0	+1.1	105		25	40	13	53	46	0.02	-0.16	0.02	0	1	25	3	3		Southern Pacific Co.
Beowawe	Eureka	4,695	44	69.8	-5.7	100		22	40	+14	50	46	T.	-0.25	T.	0	0	26	5	0	s	Do.
Carlin	Elko	4,896	44	66.6	-4.9	96		24	38	+17	53	44	T.	-0.18	T.	0	0	16	13	2		Western Pacific Co.
Clover Valley**	do	6,000	14	65.0	-1.5	90	+20	37	+16	47	22	0.33	-0.11	0.21	0	2	11	18	2		I. F. Wiseman.	
Dry Farm**	do	5,600	3									6										Walrid Sohlman.
Elko	do	5,063	44	68.8	-1.4	100		25	38	+16	55	45	0.07	-0.27	0.07	0	1	16	14	1	sw	Western Pacific Co.
Eureka	Eureka	6,837	17	68.4	-2.3	91	+19	39	6	45	19	0.47	-0.41	0.30	0	3	15	10	6	n	Clay Simms.	
Golconda	Humboldt	4,392	36	71.6	-2.9	96	+20	45	+30	45	38	0.01	-0.19	0.01	0	1	23	0	8		Southern Pacific Co.	
Halleck	Elko	5,229	22			89		+3			46	T.	-0.25	T.	0	0	21	0	10		Do.	
Hilton	do	7,081									5	0.49		0.18	0	3	19	12	0	nw	Chas. Toyne, sr.	
Imlay §	Humboldt	4,209	2	73.3	-2.5	99		21	39	7	47	2	T.	-0.16	T.	0	0	23	2	6		Southern Pacific Co.
Lovelocks	do	3,977	21								19											High School.
Metropolis §	Elko	3,677	2								6	0.22	-0.03	0.15	0	3						O. M. Lloyd.
North Fork	do	6,500									6	0.38		0.30	0	2	9	12	10	w	Chas. Pratt.	
Paradise Valley	Humboldt	4,500	2	66.0		97	+20	36	+15	53	6	0.42		0.30	0	3	12	13	6	nw	J. M. Taylor.	
Potts	Nye	6,002	22	66.7	-2.9	95		19	31	57	24	T.	-0.65	T.	0	0	11	10	10	s	Miss Maud Potts.	
Shafter §	Elko	5,583	2								2											Geo. Kernan.
Tecoma	do	4,812	37	68.9	-3.4	100		23	40	+2	50	39	0.00	-0.19	0.00	0	0	9	22	0	sw	Southern Pacific Co.
Wells	do	5,631	43	63.9	-6.6	98		22	33	3	47	46	0.00	-0.25	0.00	0	0	19	12	0		Do.
Winnemucca	Humboldt	4,344	36	69.7	-1.9	98		21	48	7	42	46	0.05	-0.12	0.03	0	3	26	3	2	sw	U. S. Weather Bureau.
<i>Truckee Basin.</i>																						
Fernley	Lyon	4,150	42	73.6	-3.1	100	+19	40	30	52	46	0.34	+0.10	0.32	0	2	23	4	4			Mrs. G. A. Steele.
Glenbrook	Douglas	6,240	6								6											Forest Service.
Lewers Ranch**	Washoe	5,500	27	65.6	-2.4	94		26	39	7	44	28	0.32	+0.09	0.32	0	1	11	18	2		Ross Lewers.
Marlette Lake**	do	7,900									2	0.00		0.00	0	0	26	0	5	w	V. & G. H. Water Co.	
Reno	do	4,532	28	69.2	+1.7	95		24	42	7	43	28	0.04	-0.10	0.03	0	2	22	8	1	w	U. S. Weather Bureau.
Bijou, Cal.	do	6,230									6	0.11		0.07	0	2	17	8	6	w	Chas. Young.	
Fallen Leaf, Cal.	do	6,400	3	61.8		84	+18	38	6	40	3	0.14		0.10	0	2	21	9	1		W. W. Price.	
Hobart Mills, Cal.	do	5,900									6	0.02		0.01	0	2	21	6	4	s	S. E. Patterson.	
McKinney, Cal.	do	6,225	6								6	0.22		0.13	0	2	24	7	0	sw	Fred Jensen.	
Tahoe, Cal.	do	6,240	7	57.9		84	+19	30	6	47	7	0.41		0.20	0	3	25	6	0		Mrs. Northrup A. Pomin.	
Talace, Cal.	do	6,230									6										W. D. Butt.	
<i>Carson Basin.</i>																						
Fallon	Churchill	3,965	21	71.9	-1.6	99	+20	44	+7	43	21	0.18	0.00	0.18	0	1	25	6	0	nw	U. S. Experiment Station.	
Gardnerville	Douglas	4,820	24	64.2	-3.4	98		+19	49	+6	44	25	0.00	-0.33	0.00	0	0					Forest Service.
Lahontan	Churchill	4,200	3	76.4		101		20	52	30	40	5	0.77		0.77	0	1	24	5	2	w	U. S. Reclamation Service.
Markleville, Cal.	do	5,525									6	0.21		0.10	0	3	26	4	1	s	Mrs. Mary Thornburg.	
Woodfords, Cal.	do	5,634									6										Grant P. Merrill.	
<i>Walker Basin.</i>																						
Mina §	Mineral	4,350	8	75.2	-2.4	97	+13	47	6	42	19	0.30	-0.01	0.30	0	1	25	3	3			Southern Pacific Co.
Smith	Lyon	4,800									7	0.50		0.14	0	5	18	6	7	sw	C. M. Carter.	
Thorne §	Mineral	4,200	2								2											Southern Pacific Co.
Yerington §	Lyon	4,375	6	67.6	-3.9	93	+24	40	+28	43	6	0.28	+0.14	0.20	0	2	21	5	5	sw	High School.	
Bridgeport, Cal.	do	6,500	2	59.6		80		19	30	+6	54	4	0.48		0.20	0	5	18	8	5	w	A. F. Scott.
Shields Ranch, Cal.**	do	5,300									6	0.70		0.38	0	3	11	13	2			Frank W. Chichester.
<i>Colorado Basin.</i>																						
Caliente §	Lincoln	4,407	5	80.8	+7.7	110	+13	56	+3	46	5	2.00	+1.32	1.00	0	2	22	0	9	sw	Salt Lake Route.	
Indian Springs §**†	Clark	3,136	2	81.6		99		+3	58	29	38	2	0.34		0.25	0	2	28	3	0	w	Ira McFarland.
Lake Valley**	Lincoln	6,200	2								2											Valley View Farm'g Co.
Las Vegas	Clark	2,033	13	84.0	+2.3	106	+4	55	12	50	13	1.88	+1.51	1.00	0	3	19	5	7	se	C. P. Squires.	
Logan §	do	1,365	8	84.4	-2.7	107	+3	56	6	46	16	0.88	+0.60	0.53	0	3	19	5	7			Experiment Farm.
<i>Minor Basins.</i>																						
Belmont	Nye	8,132	15	65.2	-2.8	90		27	38	6	42	15	0.70	0+0.21	0.41	0	3	12	9	10	s	Lloyd G. Nelson.
Cherry Creek	White Pine	6,450	7	70.4		96		24	44	6	44	7	0.12		0.08	0	2	20	9	2	w	J. H. Leishman.
Columbia**	Esmeralda	5,700	8	72.1		96		24	47	+6	41	10	1.12		0.94	0	4	18	8	5	se	A. Booth.
Gerlach	Washoe	3,931	3	73.4		102		22	43	+7	42	3	0.42		0.25	0	2	16	13	2	nw	Western Pacific Co.
Jean	Clark	2,864	7	81.5		105	+18	58	76	45	8	0.29		0.25	0	2	24	4	3	w	Salt Lake Route.	
Jungo	Humboldt	4,165									2	0.04		0.04	0	1	12	10	9	sw	Western Pacific Co.	
Lida §	Esmeralda	6,037	3	67.6	+1.1	92		25	43	6	38	3	0.35	-0.92	0.18	0	2					L. P. Detweiler.
McDermitt	Humboldt	4,700	25	67.4	-6.3	95	+21	39	+14	39	25	0.72	+0.42	0.42	0	5	18	10	3	w	U. S. Indian Service.	
McGill §	White Pine	6,338	5	73.0	+4.8	97		13	+45	30	41	5	0.07	-0.55	0.07	0	1	21	6	4	n	R. E. Middagh.
Millett	Nye	5,040	7	66.4		92		19	38	+28	48	8	0.10		0.06	0	2	13	7	11		Fred J. Jones.
Oasis Ranch §**	Esmeralda	5,106	3	72.1	+3.7	95	+13	40	6	48	3	0.00	-0.46	0.00	0	0						Arthur L. Stewart.
Pahrump**	Nye	2,608	2								2											F. A. Buol.
Quinn Riv. Ranch**	Humboldt	4,850	13			102		20			14	0.18		0.18	0	1				w	F. M. Payne.	
Rebel Creek	do	4,300	3	69.2		98		20	42	31	47	4										

Daily precipitation for July, 1915.

Stations.	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			
<i>Columbia Basin.</i>																																		
Gold Creek.....						.05																												
Jack Creek.....			T.	T.	T.		.56														T.													
Owyhee.....																																		
San Jacinto.....							.02		.04			.01																.01						
<i>Humboldt Basin.</i>																																		
Arthur.....																																		
Austin     .....	T.	T.	T.		.08																.03		.01	.02	T.									
Battle Mountain     .....						.02																				T.								
Beowawe     .....			T.																		T.													
Carlin.....																						T.												
Clover Valley.....			.21		T.		T.		.12																		T.							
Dry Farm.....																																		
Elko.....			.07							T.			T.														T.	T.	T.					
Eureka.....				.02																			.30					.15						
Golconda.....																								.01										
Halleck.....		T.	T.	T.	T.	T.																												
Hylton.....			.18																															
Imlay.....			T.	T.	T.	T.																												
Lovelocks.....																																		
Metropolis.....			T.	.15	.04					T.		T.	.03									T.	T.	T.	T.	T.	T.					T.		
North Fork.....													.08																					
Paradise Valley.....			T.		T.	.30	.06	T.																							.06	T.		
Potts.....																																		
Shafter.....																																		
Tecoma.....																																		
Wells.....																																		
Winnemucca***.....		T.		.01	T.	.03																									.01			
<i>Truckee Basin.</i>																																		
Fernley.....			.02			.32																												
Glenbrook.....																																		
Lewers Ranch.....				.32																														
Marlette Lake     .....																																		
Reno***.....			.03			T.	T.																											
Bijou, Cal.....		.07	T.																			.04	T.											
Fallen Leaf, Cal.....		.04																																
Hobart Mills, Cal.....																						.01		.01										
McKinney, Cal.....																						.09		.13										
Tahoe, Cal.....		.20					T.															.10		.11										
Tallac, Cal.....																																		
<i>Carson Basin.</i>																																		
Fallon.....						.18																												
Gardnerville.....																																		
Lahontan     .....						.77																												
Markleville, Cal.....		.07	.04																															
Woodfords, Cal.....																																		
<i>Walker Basin.</i>																																		
Mina.....						.30																												
Smith.....		.05	.09	.12																														
Thorne.....																																		
Yerington.....		T.	T.		.08																													
Bridgeport, Cal.....		.20			.10																		.10	.06	.02									
Shields Ranch, Cal.....						.21																												
<i>Colorado Basin.</i>																																		
Caliente.....																																		
Indian Springs.....																																		
Lake Valley.....																																		
Las Vegas.....		T.																																
Logan.....																																		
<i>Minor Basins.</i>																																		
Belmont.....		T.																																
Cherry Creek.....				T.	.04	.08																												
Columbia.....			T.	.03																														
Gerlach.....							.17																											
Jean.....																																		
Jungo.....						T.																.04												
Lida.....																																		
McDermitt.....		T.				.42	.08	.05																										
McGill.....		T.																																
Millett.....		T.			.04																													
Oasis Ranch.....																																		
Pahrump.....																																		
Quinn River Ranch.....																																		
Rebel Creek.....			T.			.17	.19	.01																										
Rhyolite.....																																		
Sand Pass.....				.08	T.	T.																												
Searchlight.....																																		
Sharp.....				T.																														
Sulphur.....				T.	T.																													
Tonopah***.....		T.																																
Vya.....			.51	.21	.10	.10																												

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

\*\*\* Regular Weather Bureau stations; precipitation is for the 24-hour period, midnight to midnight.

|||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \* Precipitation included in next following measurement.

T. Trace, or less than 0.01 inch. \*\* Incomplete.

Daily temperatures for July, 1915.

Table with columns for Stations, 1-31, and Mean. Rows include locations like Columbia Basin, Gold Creek, San Jacinto, Humboldt Basin, Austin, Battle Mountain, Beowawe, Carlin, Clover Valley, Elko, Eureka, Golconda, Halleck, Inlay, Paradise Valley, Potts, Tecoma, Wells, Winnemucca, Truckee Basin, Fernley, Lewer's Ranch, Reno, Fallen Leaf, Cal., Tahoe, Carson Basin, Fallon, Gardnerville, Lahontan, Walker Basin, Mina, Yerington, Bridgeport, Cal., Caliente, Indian Springs, Las Vegas, Logan, Mohor Basins, Belmont, Cherry Creek, Columbia, Gerlach, Jean, Lida, McDermit, McGill, Millett, Oasis Ranch, Quinn River Ranch, Rebel Creek, Rhyolite, Sand Pass, Searchlight, Sharp, Sulphur, and Tonopah.

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

**CORRECTIONS.**

April, 1915, report, page 27.—The heading "Comparative State Data for March" should be "Comparative State Data for April."

June, 1915, report, page 44.—Tahoe, lowest temperature should be 22. Belmont, temperature departure should be -3.2.

**LATE REPORTS.**

(For June, 1915.)

*Caliente*.—Mean temperature, 67.8; highest, 100 on the 25th, 26th, 29th and 30th; lowest, 40 on the 14th; total precipitation, 0.25 inch; rainy days, 1; clear, 25; partly cloudy, 0; cloudy, 5.

*Clover Valley*.—Mean temperature, 59.1 *j*; highest, 86 *j* on the 24th; lowest, 31 *j* on the 14th; total precipitation, 0.33 inch; rainy days, 2.

*Dry Farm*.—Mean temperature, 58.6; highest, 85 on the 25th; lowest, 30 on the 14th; total precipitation, 0.24 inch; total snowfall, a trace; rainy days, 2; clear, 24; partly cloudy, 5; cloudy, 1.

*Lewers Ranch*.—Mean temperature, 58.8; highest, 86 on the 28th and 30th; lowest, 29 on the 11th; no precipitation; clear days, 13; partly cloudy, 17; cloudy, 0.

*Owyhee*.—Mean temperature, 54.5; highest, 83 on the 22nd; lowest, 30 on the 20th and 26th; total precipitation, 0.94 inch; rainy days, 3; clear, 9; partly cloudy, 18; cloudy, 3.

*Paradise Valley*.—Mean temperature, 57.2; highest, 90 on the 22d; lowest, 28 on the 26th; total precipitation, 0.20 inch; rainy days, 2; clear, 22; partly cloudy, 7; cloudy, 1.

*Vya*.—Total precipitation, 0.37 inch; total snowfall, a trace; rainy days, 6; clear, 13; partly cloudy, 17; cloudy, 0.