

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEVADA SECTION.

HENRY F. ALCIATORE, Section Director.

VOL. XXX. RENO, NEVADA, AUGUST, 1915. No. 8.

GENERAL SUMMARY.

High temperatures and excessive dryness were the chief features of the month's weather. Only once during the last 27 years has August been warmer, i. e., in 1898. Excesses of temperature were reported at 79 per cent. of the stations that have ten-year normals.

The great diversity of temperature found in different parts of Nevada is strikingly illustrated by a comparison of the coolest and warmest places, this month, with other points in the United States which, ordinarily, have practically the same monthly mean temperatures in August. For instance, at Gold Creek, in Elko County, (mean, 63°), the weather was cooler than that of Alpena, Mich., while Las Vegas and Logan, in Clark County, (means, 84° and 85°) were warmer than Key West, Fla.

But little rain occurred between the 1st and 30th, but on the 31st light showers fell over large areas; in spite of these however, the average rainfall was only 21 per cent. of the normal. At Fallon and Searchlight the monthly fall was 0.58 inch and 0.99 inch, respectively; nineteen stations reported a trace of rain, and thirteen others none at all; at the remaining stations the amounts recorded ranged from 0.01 to 0.41 inch.

Most of the rivers and streams are abnormally low, due to the light snows last winter, a dry summer, and an increasing demand for water for agricultural and municipal purposes; this is particularly true of the Humboldt and Carson rivers. At Lovelocks, on the Humboldt, the city water supply has been very uncertain. In the Truckee district, however, the water supply for irrigation (which comes from Lake Tahoe) has been quite ample.

The ranges, owing to the semi-droughty conditions that have obtained all summer, are generally poor. The grain crops, on the whole, have yielded well. At the close of the month cattle and sheep were reported in good condition generally; the third crop of alfalfa was about ready to cut, and the fruit outlook was fairly good.

TEMPERATURE.

The monthly mean for the State, as shown by the records of 45 stations, was 73.3°. The mean for the 29 stations having ten or more years record was 1.6° above the normal. The highest recorded was 112°, at Logan on the 20th; the lowest was 33° at Halleck on the 7th. The greatest daily range was 67° at Halleck on the 20th. The highest monthly mean was 84.8°, at Logan. The lowest monthly mean was 62.6°, at Gold Creek.

PRECIPITATION.

The average for 54 stations reporting was 0.08 inch. For the 32 stations having ten or more years record, the mean was 0.31 inch below the normal. The average amount at 3 stations in the Columbia Basin was 0.03 inch; at 18 stations in the Humboldt Basin, 0.06 inch; at 10 stations in the Truckee Basin, 0.01 inch; at 5 stations in the Carson Basin, 0.23 inch; at 4 stations in the Walker Basin, 0.15 inch; at 4 stations in

the Colorado Basin, 0.10 inch; at 19 stations in the minor basins, 0.08 inch. The greatest monthly fall was 0.99 inch at Searchlight; there was none at 13 stations. The average number of days with precipitation was 1.

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.....	29.88	30.15	29.67	48	16	6.8	31	w	31
Winnemucca.....	29.90	30.18	29.61	40	15	5.1	38	s	31
Tonopah.....	29.90	30.16	29.70	32	14	7.3	26	nw	24

SUNSHINE AND CLOUDINESS.

At Reno 94 per cent of the possible sunshine was recorded; at Winnemucca, 93 per cent; at Tonopah, 95 per cent. For the State, the average number of clear days was 25; partly cloudy, 5; cloudy, 1.

MISCELLANEOUS PHENOMENA.

(Dates of)

Thunderstorms.—5, 14, 15, 17, 21, 23, 24, 27, 30, 31.

Brisk Winds.—4, 10, 11, 13, 14, 15, 16, 17, 21, 23, 24, 27, 30, 31.

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Average snowfall.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.	Average precipi- tation.		With precipi- tation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	73.2	117	29	1.06	0	2	19	6	6	s
1890.....	70.1	110	28	2.06	0	5	16	9	6	sw
1891.....	72.0	101	25	0.44	0	2	21	6	4	s
1892.....	71.2	105	20	0.01	0	0	21	9	1	w
1893.....	71.1	104	25	0.26	0	2	16	7	7	sw
1894.....	71.0	105	30	0.45	0	4	17	7	7	sw
1895.....	70.6	112	24	0.15	T	1	19	8	7	sw
1896.....	69.0	109	34	0.82	0	3	16	8	7	w
1897.....	73.3	110	31	0.31	0	2	17	8	6	s
1898.....	73.6	112	29	0.45	6	2	18	8	5	sw
1899.....	63.7	99	20	0.82	T	3	19	5	3	w
1900.....	66.6	110	30	0.04	0	0	22	2	3	sw
1901.....	68.3	101	29	2.05	0	6	17	2	3	sw
1902.....	68.9	117	30	0.22	0	2	21	5	5	sw
1903.....	69.7	114	28	0.10	0	1	24	5	1	sw
1904.....	68.6	105	22	1.81	0	7	12	2	11	sw
1905.....	70.7	108	31	0.27	0	1	21	4	4	sw
1906.....	70.2	111	26	0.80	0	2	20	2	4	w
1907.....	67.7	109	22	0.31	0	2	20	2	4	s
1908.....	69.7	108	18	0.36	0	2	17	2	6	w
1909.....	70.9	112	25	0.48	0	2	21	7	3	sw
1910.....	69.3	111	20	0.08	0	1	25	4	2	w
1911.....	67.3	110	27	0.01	0	0	27	3	1	w
1912.....	67.7	110	23	0.35	0	2	23	5	3	w
1913.....	70.4	109	25	0.75	0	5	15	11	5	w
1914.....	72.5	122	14	0.14	0	1	23	7	1	sw
1915.....	73.3	112	32	0.08	0	1	25	5	1	s
Entire period.....	70.9	122	14	0.54	T.	2	20	6	5	sw

LATE REPORTS.

May, 1915.—Shafter, mean temperature, 49.3; highest, 79, on 16th and 31st; lowest, 21, on 3d; total precipitation, 1.10; days with rain, 4; clear, 13; partly cloudy, 16; cloudy, 2.

June, 1915.—Shafter, mean temperature, 56.2; highest, 89, on 22-24; lowest, 24, on 15th; total precipitation, 0.20; days with rain, 1; clear, 23, partly cloudy, 4; cloudy, 3.

July, 1915.—Owyhee, mean temperature, 64.2; highest, 96, on 23d; lowest, 36, on 17th; total precipitation, 0.88; days with rain, 3. Thorne, (four days missing from temperature record) mean temperature, 75.2; highest, 98, on 29th and 30th; lowest, 41, on 1st; total precipitation, 0.03; days with rain, 1; clear, 20; partly cloudy, 9; cloudy, 2.

CORRECTIONS.

August, 1914, report.—Page 59. Comparative data for August. Number of partly cloudy days in 1909 should be 7.

Climatological data for August, 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	62.6		88	+9	34	17	52	2	0.00		0.00	0	0	23	4	4	s	Forest Supervisor.	
Jack Creek**	do	6,300									2	T.		T.	0	0	25	6	0		C. E. Byler.	
Owyhee	do	5,400	4								4				0	0					Indian Service.	
San Jacinto	do	5,200	10	66.5	+4.1	96		10	38	1	54	10	0.08	-0.33	0.05	0	3	20	6	5	w	J. S. Parmley.
<i>Humboldt Basin.</i>																						
Arthur	Elko	6,500									5	0.20	-0.24	0.20	0	1	30	1	0		Isaac Woodhouse.	
Anstin	Lander	6,594	26	71.0	+2.9	95	29	47	31	38	26	0.41	-0.22	0.41	0	1	30	0	1		Forest Service.	
Battle Mountain	do	4,513	44	77.2	+3.8	108	+20	42	11	62	46	T.	-0.14	T.	0	0	26	4	1		Southern Pacific Co.	
Beowawe	Eureka	4,695	44	70.9	-3.0	102	29	40	24	58	44	T.	-0.19	T.	0	0	29	2	0	s	Do.	
Carlin	Elko	4,896	44	64.3	-4.4	100	+19	36	73	59	44	0.00	-0.17	0.00	0	0	22	8	1		Western Pacific Co.	
Clover Valley**	do	6,000	14	68.5	+3.0	93		30	42	1	43	22	0.24	-0.36	0.10	0	3	20	9	2		I. F. Weman.
Dry Farm**	do	5,600	3								6										Walfrid Sohlman.	
Elko	do	5,063	44	68.0	+2.2	97	+21	40	73	56	45	T.	-0.28	T.	0	0	11	16	4	sw	Western Pacific Co.	
Eureka	Eureka	6,837	17	72.2	+2.6	96	29	50	15	43	19	0.00	-0.71	0.00	0	0					Clay Simms.	
Goldconda	Humboldt	4,392	36	72.7	+1.5	98	+9	44	10	53	38	T.	-0.09	T.	0	0	27	0	4		Southern Pacific Co.	
Halleck	Elko	5,229	22	68.2	+1.0	100		31	33	7	67	46	T.	-0.18	T.	0	0				Do.	
Hylton	do	7,081									5	T.		T.	0	0	24	7	0		Chas. Toyne, sr.	
Imlay §	Humboldt	4,209	2	73.8	+0.9	101		29	42	13	49	2	T.	-0.14	T.	0	0	29	2	0		Southern Pacific Co.
Lovelocks	do	3,977	21								19										High School.	
Metropolis §	Elko	5,661	2								6	T.	-0.22	T.	0	0					Geo. Hofmeister.	
North Fork ††	do	6,500									6	T.		T.	0	0	13	12	6	w	Chas. Pratt.	
Paradise Valley	Humboldt	4,500	2	69.8		100		29	38	1	55	6	T.		T.	0	0	22	7	2	sw	R. M. Taylor.
Potts	Nye	6,002	22	64.2	-3.6	92		29	34	1	53	24	0.01	-0.56	0.01	0	1	12	10	9	sw	Miss Maud Potts.
Shafter §	Elko	5,583	2								39										Geo. Kernan.	
Tecoma	do	4,812	37	69.3	-1.5	100		11	40	71	54	39	0.02	-0.21	0.02	0	1	10	21	0	s	Southern Pacific Co.
Wells	do	5,331	43			97		20			48	0.15	-0.07	0.15	0	1	25	2	4		Do.	
Winnemucca	Humboldt	4,344	36	72.0	+1.2	101		29	44	1	51	46	0.08	-0.09	0.08	0	1	26	3	2	sw	U. S. Weather Bureau.
<i>Truckee Basin.</i>																						
Fernley	Lyon	4,150	42	77.2	+2.8	105		28	47	3	54	46	0.00	-0.18	0.00	0	0	26	4	1		Mrs. G. A. Steele.
Glenbrook	Douglas	6,240	6								6										C. C. Henningsen.	
Lewers Ranch**	Washoe	5,500	27	69.2	+1.3	98	+29	44	5	47	28	0.00	-0.36	0.00	0	0	23	7	1		Ross Lewers.	
Marlette Lake**	do	7,900									2	0.00		0.00	0	0	31	0	0	s	V. & G. H. Water Co.	
Reno	do	4,532	28	72.6	+5.6	100		29	47	1	45	28	T.	-0.25	T.	0	0	28	3	0	w	U. S. Weather Bureau.
Bijou, Cal.	do	6,230									6	0.03	0.03	0.03	0	1	19	10	2	n	Chas. Young.	
Fallen Leaf, Cal.	do	6,400	3	65.8		91		30	45	71	39	3	T.		T.	0	0	28	3	0	n	W. W. Price.
Hobart Mills, Cal.	do	5,900									6	0.04	0.02	0.02	0	3	25	3	3	s	S. E. Patterson.	
McKinney, Cal.	do	6,225	6								6	0.00	0.00	0.00	0	0	27	4	0	sw	Fred Jensen.	
Tahoe, Cal.	do	6,240	7	61.2		89		29	37	6	45	7	T.		T.	0	0	28	3	0	w	Mrs. Northrup A. Pomin.
Tallac, Cal.	do	6,230									6	T.		T.	0	0					Willis D. Sloan.	
<i>Carsm Basin.</i>																						
Fallon	Churchill	3,965	21	73.8	+1.8	100		29	46	8	49	21	0.58	+0.46	0.56	0	2	28	3	0	sw	U.S. Experiment Station.
Gardnerville	Douglas	4,830	24	65.6	-2.0	92	29	40	3	47	25	0.31	+0.11	0.29	0	2					Forest Service.	
Lahontan	Churchill	4,200	3	80.2		104		29	52	1	43	5	0.08	0.08	0.08	0	1	25	6	0	w	U.S. Reclamation Service.
Markleville, Cal.	do	5,525									6	T.			0	0	28	3	0	s	Mrs. Mary Thornburg.	
Woodfords, Cal.	do	5,634									6	0.16		0.08	0	3	12	12	7	sw	Grant P. Merrill.	
<i>Walker Basin.</i>																						
Mina §	Mineral	4,350	8	77.8	+1.8	103		29	50	7	45	19	0.00	-0.41	0.00	0	0	29	2	0		Southern Pacific Co.
Smith	Lyon	4,800									7										C. M. Carter.	
Thorne §	Mineral	4,200	2	77.4	+1.5	100		29	53	7	46	2	0.13	-0.15	0.13	0	1	23	3	5		Southern Pacific Co.
Yerington §	Lyon	4,375	6	70.1	0.0	95		29	37	1	48	6	0.18	-0.02	0.18	0	1	27	1	3	sw	High School.
Bridgeport, Cal.	do	6,500	2	60.5		90	+28	31	7	53	4	0.31	0.14	0.14	0	3	15	9	7	w	A. F. Scott.	
Shields Ranch, Cal.**	do	5,300									6	T.		T.	0	0	6	22	3		Frank W. Chichester.	
<i>Colorado Basin.</i>																						
Caliente §	Lincoln	4,407	5	80.8	+9.0	108		16	52	30	51	5	0.00	-1.44	0.00	0	0	28	3	0	s	Salt Lake Route.
Indian Springs §**	Clark	3,136	2	80.5		104		20	56	+16	44	2	0.22	0.22	0.22	0	1	29	1	1	sc	Ir. McFarland.
Las Vegas	do	2,033	13	83.7	+3.7	109		20	55	23	50	13	0.01	-0.56	0.01	0	1	27	4	0	se	C. P. Squires.
Logan §	do	1,355	8	84.8	-1.3	112		20	58	20	54	16	0.18	-0.26	0.18	0	1	26	5	0		Experiment Farm.
<i>Minor Basins.</i>																						
Belmont	Nye	8,132	15	68.7	+2.7	89	+4	46	6	38	15	T.	-0.94	T.	0	0	20	7	4	s	Lloyd G. Nelson.	
Cherry Creek	White Pine	6,450	7	71.8		99		9	43	1	47	7	0.06	0.06	0.06	0	1	22	7	2	w	J. H. Leishman.
Columbia**	Esmeralda	5,700	8	63.7		90		29	48	16	43	10	0.01	0.01	0.01	0	1	22	9	0	se	A. Booth.
Gerlach	Washoe	3,931	3	74.6		102	+29	43	+20	55	3	T.		T.	0	0	24	7	0	w	Western Pacific Co.	
Jean	Clark	2,864	7	82.6		110		20	50	18	39	8	T.		T.	0	0	27	3	1	w	Salt Lake Route.
Jungo	Humboldt	4,165									2	T.		T.	0	0	21	8	2	sw	Western Pacific Co.	
Lida §	Esmeralda	6,037	3								3										L. F. Detwiler.	
McDemmitt	Humboldt	4,700	25	72.0	-0.3	97		29	46	1	42	25	T.	-0.15	T.	0	0	26	5	0	sw	U. S. Indian Service.
McGill §	White Pine	6,338	5	72.9	+8.0	97		20	45	1	44	5	0.22	-0.86	0.17	0	2	26	3	2	n	R. E. Middagh.
Millett	Nye	5,040	7	66.6		95	+28	37	18	55	8	0.32	0.32	0.32	0	1	18	10	3		Fred J. Jones.	
Oasis Ranch §**	Esmeralda	5,106	3	71.2	+3.9	99		23	45	7	49	3	0.00	-0.56	0.00	0	0	29	0	2	s	Arthur L. Stewart.
Pahrump**	Nye	2,608	2								2										F. A. Buol.	
Pyramid (near)**	Washoe										1	T.		T.	0	0	30	1	0		F. O. Norton.	
Quinn Riv. Ranch**	Humboldt	4,850	13			104		29			14	0.00	-0.18	0.00	0	0	26	3	2	sw	F. M. Payne.	
Rebel Creek	do	4,300	3	73.6		99		28	46	1	44	4	T.		T.	0	0	22	7	2	sw	Fred Whitaker.
Rhyolite	Nye	3,680	2																			

Daily precipitation for August, 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																																				0.00
Jack Creek																																				T.
Owyhee																																				
San Jacinto						.05									.01																				.02	
<i>Humboldt Basin.</i>																																				
Arthur																																			.20	
Anstin																																			.41	
Battle Mountain																																			T.	
Beowawe																																			T.	
Carlin																																			T.	
Clover Valley					.10																														.10	
Dry Farm																																				
Elko						T.																														
Eureka																																				
Gelconda																																				
Halleck																																				
Hylton																																				
Inlay																																				
Lovelocks																																				
Metropolis																																				
North Fork																																				
Paradise Valley																																				
Potts						T.																														
Shafter																																				
Tecoma							.02																													
Wells																																				
Winnemucca***																																				
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McDermitt																																				
McGill																																				
Millett																																				
Oasis Ranch																																				
Pahrump																																				
Pyramid																																				
Quinn River Ranch																																				
Rebel Creek																																				
Rhyolite																																				
Sand Pass																																				
Searchlight																																				
Sharp																																				
Sulphur																																				
Topopah***																																				
Vya																																				

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.

Daily temperatures for August, 1915.

Table with columns for Stations, 1-31, and Mean. Rows include Columbia Basin, Gold Creek, San Jacinto, Humboldt Basin, Austin, Battle Mountain, Beowawe, Carlin, Clover Valley, Elko, Eureka, Golconda, Halleck, Imlay, 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, Thorne, Yerington, Bridgeport, Cal., Callente, Indian Springs, Las Vegas, Logan, Minor Basins, Belmont, Cherry Creek, Columbia, Gerlach, Jean, McDermitt, 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. ☽ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.