

# CLIMATOLOGICAL DATA

## NEVADA SECTION

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### GENERAL SUMMARY

Very warm, dry weather of the month was favorable for haying, harvesting of grain, and most field operations. It was unfavorable to lower grazing areas and all unirrigated crop lands. A good first hay crop was put up during the month, while in the latter half the harvest of wheat was largely begun. Grains, gardens, and field crops, where irrigated, made good to excellent growth, although suffering a growing drought where not irrigated, and in parts of the extreme eastern counties. High temperatures and dry weather matured vegetation over forest and range lands, with the result that extensive grass fires occurred, especially in Elko, Humboldt, Pershing, and Washoe Counties, which were finally brought under control with considerable difficulty. The lower livestock ranges suffered a cumulative drought, but the higher summer ranges remained in excellent condition with sufficient soil moisture. Livestock were mostly on the summer ranges and the condition of animals generally reported as good. As the harvest season advanced, farm labor showed a growing and serious shortage somewhat more marked in the extreme western counties.

The supply of water for irrigation appeared ample with better prospects than usual at this time of year. There was, however, a steady decline in streamflow from the early summer peak flow stages. The level of Lake Tahoe was 6228.92 feet on July 1st, and 6229.90 feet on July 31st, or a net lowering of 0.02 foot for the period. The high level readings were those of July 10-12th with 6229.00 feet.

G. P. M.

### TEMPERATURE

The average monthly temperature for the State, based on the records of 68 stations was 76.0°, which is 3.4° above the average for past years. The highest recorded was 120° at Overton on the 20th. The lowest recorded was 29° at Spooner's Station on the 12th. The highest monthly mean was 82.6° at Overton. The lowest monthly mean was 58.2° at Spooner's Station.

This was the fourth warmest July in the 54 years of record, only the corresponding months in the years, 1889, 1931, and 1933 being warmer, and that of 1936 equaling the present month. The excess in temperature covered the greater part of the State, only 3 stations in north-central counties having minor deficiencies. The temperature excess was most pronounced in extreme southeastern areas and in eastern Elko County. The periods of greater warmth occurred in the first and third weeks.

### PRECIPITATION

The average monthly precipitation for the State, based on the records of 76 stations was 0.10 inch, which is 0.28 inch below the average for past years. The average amount at 3 stations in the Columbia Basin was 0.31 inch; at 19 stations in the Humboldt Basin was 0.10 inch; at 10 stations in the Truckee Basin was 0.03 inch; at 6 stations in the Carson Basin was 0.07 inch; at 9 stations in the Walker Basin was 0.12 inch; at 11 stations in the Colorado Basin was 0.32 inch. The greatest monthly amount was 1.04 inches at Alamo. The least monthly amount was none at 21 stations. The average number of days with 0.01 inch or more of precipitation was 1. There was an average of 23 clear days; 7 partly cloudy days, and 1 cloudy day.

The month was the fifth driest July in the 54 years of record, with 21 stations having no precipitation and 25 others reporting but a trace. Only 3 stations, Alamo, Boulder City, and Smith, had excess amounts, mostly as the result of local thundershowers. Colorado and Columbia Basin stations were nearest to a normal precipitation, while the greatest deficiencies occurred in the Truckee, Carson, and Minor Basin areas. The bulk of the precipitation was received in two periods, the 14-16th and 21-28th.

### ERRATA

JUNE, 1942—Alamo, mean minimum, 56.3°, mean monthly, 76.0°, departure, +5.5°; Paradise Valley, greatest 24-hour precipitation, should be omitted, days 0.01 precipitation, 4.

### MISCELLANEOUS PHENOMENA

(Dates of)

HAIL.—Boulder City, 28; Wadsworth, 21; Woodfords, 19.  
 THUNDERSTORMS.—Adaven, 23, 26; Alamo, 26; Austin, 14, 15; Basalt, 21, 25; Bridgeport Dam, 21; Desert Game Range, 15, 24; Elko, 4, 14, 15; Ely, 4, 8, 16, 23, 27; Eureka, 4, 17; Goldfield, 26; Jarbridge, 14; Kimberly, 14, 15, 23; Lahontan, 21, 22, 27; Las Vegas Airport, 14, 23, 25, 28; Mala Vista, 14; Mormon Mesa, 24, 28; Nixon, 21; Overton, 14, 25; Pioche, 3, 4, 15, 23, 25, 26, 27, 28; Reno and Reno Airport, 19, 21; Tonopah, 26; Wadsworth, 21; Wellington, 19, 20, 21; Winnemucca, 14.

### PRESSURE, WIND, HUMIDITY AND SUNSHINE

Stations	Atmospheric pressure (reduced to sea level)				Wind				Relative humidity†				Percentage of sunshine	
	Mean	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	4:30 a. m.	10:30 a. m.	4:30 p. m.		10:30 p. m.
Ely .....	29.96	30.18	1	29.70	15	9.1	34	s.	28	29	43	16	13	76
Las Vegas.....	29.77	29.97	22	29.60	15	7.6	22	w.	14	27	15	12	20	89
Reno.....	29.96	30.12	22	29.81	15	7.6	22	sw.	22	27	15	12	20	89
Winnemucca.....	29.90	30.10	18	29.68	15	7.6	26	sw.	22	42	17	12	34	95

\* Pressure and humidity recorded at airport station. † Pacific standard time.

### COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation	Average Snowfall	Number of days			
	Mean	Highest	Lowest			Average	Precip., .01 inch, or more	Clear	Partly cloudy
1889.....	76.1	119	36	0.17	0	1	29	1	1
1890.....	74.0	118	26	0.15	0	1	22	1	7
1891.....	70.4	102	26	0.53	0	3	17	23	2
1892.....	70.6	115	30	0.67	0	2	26	1	3
1893.....	70.3	110	24	0.40	0	2	27	4	3
1894.....	71.7	108	32	0.75	0	5	17	9	1
1895.....	70.2	112	28	0.05	0	1	25	4	3
1896.....	72.7	112	33	0.79	0	2	14	9	3
1897.....	69.4	116	25	0.28	0	1	20	7	4
1898.....	73.5	114	30	0.12	0	2	23	6	2
1899.....	72.6	106	34	0.14	0	2	22	5	4
1900.....	70.9	113	33	0.37	0	1	23	4	4
1901.....	70.8	109	31	0.31	0	1	21	6	4
1902.....	67.9	116	25	0.44	0.5	2	22	5	5
1903.....	65.4	111	26	0.01	0	1	27	3	1
1904.....	68.7	110	30	0.51	0	3	19	8	4
1905.....	72.1	109	31	0.03	0	1	24	5	2
1906.....	74.7	114	32	0.58	0	4	17	6	2
1907.....	69.2	113	27	0.06	0	3	18	5	3
1908.....	74.3	116	32	0.42	0	3	15	10	3
1909.....	69.5	112	23	0.14	0	2	23	6	2
1910.....	72.9	110	28	0.65	0	3	18	8	5
1911.....	70.9	109	30	0.31	0	3	17	10	4
1912.....	68.6	113	25	0.67	0	4	17	7	7
1913.....	69.1	113	18	1.30	0	6	16	9	6
1914.....	72.4	118	32	0.52	0	3	16	10	5
1915.....	70.8	110	31	0.38	0	2	19	8	4
1916.....	71.0	113	30	0.31	0	2	25	4	2
1917.....	74.5	111	31	0.46	0	2	21	7	3
1918.....	72.9	112	21	0.53	0	2	21	7	3
1919.....	75.2	113	35	0.28	0	1	23	7	1
1920.....	72.7	113	33	0.14	0	1	24	5	2
1921.....	74.2	114	27	0.19	0	1	24	4	3
1922.....	74.1	116	33	0.54	0	3	20	6	3
1923.....	73.9	116	24	0.42	0	2	22	7	4
1924.....	73.0	117	31	0.16	0	1	22	7	2
1925.....	74.6	117	40	0.97	0	4	19	7	5
1926.....	74.1	116	33	0.43	0	3	20	7	4
1927.....	74.5	118	27	0.26	0	2	21	7	3
1928.....	73.6	114	32	0.16	0	1	23	6	2
1929.....	74.1	115	30	0.14	0	1	23	5	3
1930.....	73.1	115	30	0.16	0	1	21	6	4
1931.....	78.2	119	33	0.14	0	1	22	7	2
1932.....	72.7	116	30	0.43	0	2	23	5	3
1933.....	76.6	118	32	0.34	0	2	21	5	3
1934.....	74.5	118	27	0.18	0	1	24	5	2
1935.....	72.3	116	25	0.18	0	1	21	7	2
1936.....	76.0	115	34	0.79	0	5	14	11	6
1937.....	75.3	118	33	0.67	0	4	17	9	4
1938.....	72.5	115	33	0.76	0	4	19	8	4
1939.....	74.0	119	34	0.60	0	3	19	8	4
1940.....	72.7	117	31	0.01	0	1	23	6	2
1941.....	72.6	118	32	0.73	0	4	18	9	4
1942.....	76.0	120	29	0.10	0	1	23	7	1
1889-1942.....	72.6	120	18	0.38	T.	2	21	7	3

Climatological Data for July, 1942

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Greatest in 24 hours, Date), Number of days (Total snowfall, With precipitation, Clear, Partly cloudy, Cloudy), Prevailing direction of the wind, Observer.



Daily Temperatures for July, 1942

Table with columns for Stations, 31 days (1-31), and Mean. Rows list various Nevada locations like Alamo, Austin, Battle Mountain, etc., with their daily temperature ranges.

Except as otherwise noted temperatures are for the 24-hour period ending near sunset. 10:30 p. m. to 10:30 p. m., Pacific standard time. †† Midnight to midnight, Pacific standard time. ††† Instruments are read in the morning, the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Daily Evaporation (inches) and Wind Movement (miles) for July, 1942 (See also temperature, precipitation and climatological tables)

Table with columns for Stations, Data, Day of month (1-31), and Monthly. Rows list locations like Boca, Boulder City, Lahontan, etc., with evaporation and wind movement data.

\* Observations taken at 6 a. m.; \*\* at 3 p. m.; \*\*\* at 3 p. m., all Pacific standard time. † Included in next following entry. ‡ Wind movement by 3-cup anemometer, others by 4-cup instrument. (1) 1.200

Notes and References for Climatological Table

\* Departures from the normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean," adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. State normals on records to 1936 inclusive. \*\*Post office addresses as follows: Of Basalt, Mt. Montgomery, of Bridgeport, Calif., Wellington, Nevada; of Charleston Ranger Station, Las Vegas; of Clover Valley, Wells; of Coaldale, Coaldale via Tonopah; of Desert Game Range, Las Vegas; of Geyser Station, Geyser via Ely; of Golliher Pasture, San Jacinto; of Hylton, Jiggs; of Indian Springs, Las Vegas; of Lahontan, Fallon; of Lathrop Wells, Lathrop Wells via Las Vegas; of Lehman Caves National Monument, Baker; of Lewers Ranch, Carson City; of Lida, Golconda; of Mala Vista Ranch, Death; of Marlette Lake, Carson City; of Mormon Mesa, Moapa; of Rattlesnake, Churchill; of Ruby Lake, Ruby Valley; of Rye Patch Dam, Lovelock; of Sand Pass, Flanigan; of Sarcobatus, Goldfield; of Seventy One Ranch, Death; of Sheldon, Cedarville, Calif.; of Shields Ranch, Coleville, Calif.; of Spooner Station, Carson City; of Tem Plute, Hiko; of Ventosa, Toiyabe; of Willow Springs, Tonopah; of Woodfords, Calif., Gardnerville, Nev. Reference letters, "a," "b," appearing in the table indicate number of days missing, for example, "a" represents two days missing, etc. † Also on other dates. ‡ Received too late to be included in the means and summaries. †† Less than one day. T. Precipitation less than 0.01 inch rain or melted snow. WBO - San Francisco, 9-3-42-960