

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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CLIMATOLOGICAL DATA

NEVADA

JULY 1949

Volume LXIV No. 7



J. C. Eberhardt, Section Director - Salt Lake City

GENERAL SUMMARY

July weather was favorable for grain harvesting and haying operations but ranges continued to become drier, especially at lower elevations, and extensive irrigation was necessary to keep crops and pastures in good condition. Showers over the eastern half of the State on the 3-4th and again on the 11-12th brought the only rainy periods for the month, with the exception of local thunderstorms over the extreme southern quarter of the State on the last day of the month, and the Reno area on the 12th. The northwestern corner of the State and the valley stations east of the High Sierras had no measurable precipitation during July. Local thunderstorms over the eastern and southern areas created a State average of 0.26 inch, which is 0.13 below normal or only 67 percent of the usual July total. Irrigation water supplies are generally low but critical shortages were not expected to develop. Reservoir carryover for the next irrigation season will be low unless stream flow is augmented by heavy precipitation. Ground-water levels are near normal for July except in the Las Vegas area where artesian pressures are a foot lower than last year.

Plus temperature departures in the Lower Humboldt Basin and the southern desert area were offset by the below normal averages in the interior stations and those in the upper Humboldt Basin to bring the July mean to 73.2 or 0.3 below normal. Monthly maximums were usual-

ly recorded on the 15 or 16th all over the State and extreme minimums in the first seven days or about the 21st. Extremely warm evenings on the 17th, 18th and 19th saw minimum readings in the high 80's at Las Vegas Airport, Lathrop Wells, Desert Game Range, Overton, Pahrump and Boulder City. A mass of cool air moved over the northern and central portions of the State on the 19th and 20th, with nighttime temperatures falling below the 40 mark at several stations.

The first hay crop was generally cut early in the month with near average yields. The second crop developed slowly but was ready for harvest in western areas by the end of the month. Ranges were very dry at lower elevations and forage very limited. Feed was more than plentiful at intermediate elevations and high elevations. Stock water is sufficient in most areas. Condition of cattle is slightly less than average but better than last year at this time. Sheep have not made the recovery from the severe winter that is evident among cattle. Some range lambs are now being shipped to market.

Grain harvest was in full swing in western fields and yields were above average. Sugar beet seed threshing was completed with near average yields though high winds caused considerable lodging. Cantaloupe harvest was speeded up by the warm days and nights at midmonth and was nearly completed by the end of the month.

SDG

TEMPERATURE

The average temperature for the state, weighted in proportion to divisional areas and based on the stations in Table 2, was 73.2°, 0.3° below an adjusted normal. The highest temperature recorded was 120° at Overton on the 16th which equals the previous all time high for the

State for the month of July recorded in 1942. The lowest temperature was 29° recorded at Fish Creek Ranch on the 1st. The highest monthly mean temperature was 91.1° at Overton; the lowest was 59.4° at Marlette Lake.

PRECIPITATION

The average precipitation for the state, weighted in proportion to divisional areas and based on the stations in Table 2, was 0.26 inch, 0.13 inch below an adjusted normal. The greatest monthly amount was 1.30 inches at Pioche;

the least was 0.00 at several stations. The greatest amount recorded in an observational day was 1.04 inches at Mt. Charleston Lodge on the 12th. The average number of days on which 0.01 inch or more of precipitation was recorded was 2.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gauges--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gauges, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per

year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

NEVADA
JULY 1949

Station	Sea level pressure extremes—Inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	
	Highest	Date	Lowest	Date	Average	Maximum #	Direction of maximum #	Date of maximum #	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	Degree days 65° base
ELKO WB AIRPORT	30.15	2	29.63	18	7.6	-	-	-	42	59	26	24	-	10
ELY WB AIRPORT	30.20	10	29.70	26	10.8	42	S	18	-	-	-	-	79	16
LAS VEGAS WB AIRPORT	30.00	1	29.52	17	8.5	-	-	-	20	27	15	12	82	0
RENO WB AIRPORT	30.11	13	29.69	18	6.4	35	W	18	43	72	25	21	90	12
WINNEMUCCA WB CITY	30.06	1	29.64	17	7.5	35	S	10	-	-	-	-	79	0
# Fastest Mile														

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1889	76.1	119	36	0.17	0.0	1	1910	72.9	110	28	0.65	0.0	3	1931	78.2	119	33	0.14	0.0	1
1890	74.0	118	28	0.15	0.0	1	1911	70.9	109	30	0.31	0.0	3	1932	72.7	116	30	0.43	0.0	2
1891	70.4	102	26	0.53	0.0	3	1912	68.6	113	25	0.67	0.0	3	1933	76.6	118	32	0.34	0.0	2
1892	70.6	115	30	0.67	0.0	1	1913	69.1	113	18	1.30	0.0	3	1934	74.5	118	27	0.20	0.0	1
1893	70.3	110	24	0.40	0.0	2	1914	72.4	118	32	0.52	0.0	3	1935	72.3	116	28	0.18	0.0	1
1894	71.7	108	32	0.75	0.0	5	1915	70.8	110	31	0.38	0.0	2	1936	76.0	115	34	0.79	0.0	5
1895	70.2	112	28	0.13	0.0	1	1916	71.0	113	30	0.31	0.0	2	1937	75.3	118	33	0.67	0.0	4
1896	72.7	112	33	0.79	0.0	2	1917	74.5	111	31	0.46	0.0	3	1938	72.5	115	33	0.76	0.0	4
1897	69.4	116	25	0.28	0.0	1	1918	72.9	112	21	0.33	0.0	1	1939	74.0	119	34	0.60	0.0	3
1898	73.5	114	30	0.12	0.0	1	1919	75.2	113	35	0.28	0.0	1	1940	72.7	117	31	0.01	0.0	1
1899	72.6	106	34	0.14	0.0	2	1920	72.7	113	33	0.14	0.0	1	1941	72.6	118	32	0.73	0.0	4
1900	70.9	113	33	0.37	0.0	1	1921	74.2	114	27	0.19	0.0	1	1942	76.0	120	29	0.10	0.0	1
1901	70.8	109	31	0.31	0.0	2	1922	74.1	116	33	0.54	0.0	3	1943	73.3	116	23	0.30	0.0	2
1902	67.9	116	25	0.44	0.5	2	1923	73.9	116	24	0.42	0.0	2	1944	71.2	113	26	0.07	0.0	1
1903	65.4	111	26	0.01	0.0	1	1924	73.0	117	31	0.16	0.0	1	1945	75.3	117	30	0.44	0.0	3
1904	68.7	110	30	0.51	0.0	3	1925	74.6	117	40	0.97	0.0	4	1946	73.4	116	31	1.00	0.0	4
1905	72.1	109	31	0.03	0.0	1	1926	74.1	116	33	0.43	0.0	3	1947	72.0	117	31	0.04	0.0	1
1906	74.7	114	32	0.68	0.0	4	1927	74.5	118	27	0.26	0.0	2	1948	71.7	118	25	0.05	0.0	1
1907	69.2	113	27	0.06	0.0	1	1928	73.6	114	32	0.16	0.0	1	1949	73.2	120	29	0.26	T	2
1908	74.3	116	32	0.42	0.0	3	1929	74.1	115	30	0.14	0.0	1							
1909	69.5	112	23	0.14	0.0	2	1930	73.1	115	30	0.16	0.0	1	PERIOD	72.6	120	18	0.38	T	2

See reference notes following Station Index.

HOURLY PRECIPITATION

Table 4

NEVADA
JULY 1949

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
LOVELOCK DERBY FLD																									
-2d-																									
ARTHUR																									
AUSTIN																									
BASALT																									
CALIENTE																									
EASTGATE																									
ELKO WB AP																									
ELY WB AP																									
FISH CREEK RANCH																									
JIGGS																									
PALMETTO																									
PEQUOP																									
RATTLESNAKE																									
SEARCHLIGHT																									
-3d-																									
ALAMO MNTC STA																									
CALIENTE																									
EASTGATE																									
ELY WB AP																									
FISH CREEK RANCH																									
LOVELOCK DERBY FLD																									
NORTH FORK MNTC STA																									
OVERTON																									
PALMETTO																									
SEARCHLIGHT																									
SUNNYSIDE																									
-4th-																									
ALAMO MNTC STA																									
AUSTIN																									
BASALT																									
BATTLE MTN AP																									
CALIENTE																									
CONTACT																									
EASTGATE																									
ELKO WB AP																									
ELY WB AP																									
FISH CREEK RANCH																									
JIGGS																									
LAS VEGAS WB AP																									
NORTH FORK MNTC STA																									
OVERTON																									
PALMETTO																									
PEQUOP																									
SEARCHLIGHT																									
WELLS																									
-9th-																									
CONTACT																									
ELY WB AP																									
-10th-																									
JIGGS																									
-11th-																									
BASALT																									
ELKO WB AP																									
ELY WB AP																									
MANHATTAN																									
PEQUOP																									
SUNNYSIDE																									
TONOPAH																									
WELLINGTON RS																									
WELLS																									
YERINGTON SCS Y 1																									
-12th-																									
CALIENTE																									
ELY WB AP																									
LOVELOCK DERBY FLD																									
MANHATTAN																									
RENO WB AP																									
-13th-																									
ARTHUR																									
ELKO WB AP																									
PEQUOP																									
RATTLESNAKE																									
WELLS																									
-14th-																									
MATHEWS RANCH																									
-15th-																									
ARTHUR																									
ELY WB AP																									
-24th-																									
SHELLBOURNE																									
-26th-																									
ALAMO MNTC STA																									
-30th-																									
WELLINGTON RS																									
-31st-																									
LAS VEGAS WB AP																									
MANHATTAN																									
OVERTON																									
TONOPAH																									

See reference notes following Station Index.

STATION INDEX

NEVADA
JULY 1949

Table with columns: Station, Index No., County, Drainage, Latitude, Longitude, Elev. (ft.), Time of observation (Zone, Temp., Precip.), Years of record (Temp., Precip., Evap.), Observer, Refer to tables. Includes a section for NEW STATIONS.

REFERENCE NOTES

NEVADA
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The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperatures in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

As of January 1, 1949, dewpoint values below 32°F. and relative humidity values at temperatures below 32°F. are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after January 1, 1949, cannot accurately be combined without necessary conversion.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- AR This entry in time of observation column in Station Index means after rain.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in June issue of this publication.
- SS This entry in time of observation column in Station Index means sunset.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- VAR This entry in time of observation column in Station Index means variable.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.

Subscription Price: 15 cents per copy, \$1.50 a year. (Yearly subscription includes Annual Summary.) Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 537 Federal Office Building, San Francisco 2, California.