

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

4

CALIFORNIA SECTION

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GENERAL SUMMARY

July was the first month since that of January 1942 with mean temperature for the State as a whole above the 46-year average. The excess was greatest in the desert regions, and least in the Great Interior Valley and southern coastal area where a number of stations reported minus departures. Day temperatures were high at the beginning of the month and from the 22nd to 25th, while night temperatures were lowest around the 5th, 12th, and 31st.

Measurable precipitation occurred at only seven percent of the reporting stations. It was in the form of light drizzles along the coast, and widely scattered thundershowers in the mountain and desert areas. The heaviest showers were in the desert regions. In the northern districts most of the precipitation occurred near the beginning and the close of the month and around the 15th, and in southern districts around the 15th and 24th. No snowfall was reported.

The wind movement was subnormal at most of the reporting stations. Sunshine was well above and the relative humidity below normal in southern coastal counties, while elsewhere both sunshine and relative humidity approximated the normal. Hailstorms did no damage. High winds were reported in the vicinities of Twentynine Palms, San Bernardino County, and Blythe, Riverside County, on the afternoon of the 15th. Straight-line winds badly damaged 26 civilian trainer airplanes at a small airport located 14 miles west of Blythe, and destroyed one and one-half miles of high tension power line in an area from eight to ten miles south-southeast of this airport and 16 miles southwest of Blythe.

For the State as a whole grass and brush fires were below the July average; but they exceeded the normal in central and southern coast counties, and in the southern half of the San Joaquin Valley and mountains to the southeastward. Forest fires were generally below normal.

July weather was generally favorable for the growth, maturing, and harvesting of all crops, except that the high temperatures at the beginning of the month and from the 22nd to the 25th caused local sunburn damage to fruits and walnuts in the Great Interior Valley, and increased the drop of new crop oranges in Southern California. The warmer weather was especially favorable for rice and cotton, which

were backward at the beginning of the month because of previous subnormal temperatures. The harvesting of wheat, barley, oats, and flaxseed were about completed by the close of July, with yields very good. Fruits, nuts, and vegetables developed favorably in most districts. Livestock continued in good condition with dry feed ample.

M.S.

TEMPERATURE

The average monthly mean for the State, based on the records of 242 stations, was 73.8° or 0.2° above the 46-year average. By drainage basins the monthly averages and departures from normal were as follow: North Coast Drainage, 68.9° and +1.4°; Sacramento Drainage, 73.6° and +0.3°; Northeastern Interior Basins, 66.3° and +0.9°; Central Coast Drainage, 65.8° and +1.2°; San Joaquin Valley Drainage, 76.2° and +0.5°; South Coast Drainage, 72.3° and +0.5°; and Southeastern Desert Basins, 87.6° and +2.3°. Monthly means ranged from 55.8° at Point Reyes to 105.0° at Greenland Ranch and monthly extremes from 29° at Boca on the 12th to 126° at Cow Creek on the 24th.

PRECIPITATION

The average monthly precipitation for the State, based on the records of 310 stations, was 0.01 inch, or 0.06 inch below the 46-year average. By drainage basins the averages and departures from normal in inches were as follow: North Coast Drainage, 0.02 and -0.09; Sacramento Drainage, T and -0.07; Northeastern Interior Basins, 0.04 and -0.32; Central Coast Drainage, T and -0.01; San Joaquin Valley Drainage, T. and -0.04; South Coast Drainage, T. and -0.07; and southeastern Desert Basins, 0.06 and -0.16. The greatest monthly total was 1.21 inches at Blythe A. S.; the least 0.00 at 222 stations. The greatest 24-hour amount was 1.20 inches at Blythe A. S. on the 15th.

DATES OF MISCELLANEOUS PHENOMENA

THUNDERSTORMS — Blackbear, China Flat, Forest Glen, Happy Camp, Blue Canon A. S., Hat Creek P. H.-1, 1; Twin Lakes, 1, 2, 19, 20; Lake Eleanor, 2; Tamarack, 2, 13, 18, 19, 22, 23; Iron Mountain, 14, 15, 22, 24, 25, 28; Beaumont A. S., Blythe, 15; Truckee, 18; Ellery Lake, 19, 21, 22, 23, 24; Bridgeport (near), Ft. Bidwell, 21; Lake Sabrina, 21, 22, 23, 24, 25; Giant Forest, 22, 23; Backus Ranch, Llano, Mt. Wilson A. S., 23; Cedar Grove, Cuyama R. S., Lake Arrowhead, Springville (near), 23, 24; South Lake, 23, 24, 25; Gem Lake, 24; Tulalake, 30.

HAIL — Woodfords, 19.

Total Precipitation, July, 1942



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, Maximum in any obs. rational day, Date), Number of days (Snowfall, With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

Explanatory notes at bottom of page 80.

Climatological Data for July, 1942-Continued

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Maximum in any obs' v. national day, Date, Snowfall), Number of days (With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

Explanatory notes at bottom of page 80.

Daily Temperatures for July, 1942

Table with columns for Stations, Day of Month (1-31), and Mean. Rows list various California locations such as Bakersfield Airport, Chico, Colusa, etc., with their respective temperature data for each day of the month.

Explanatory notes at bottom of page 80.

Average September Precipitation

(Based on all available records to and including 1940)



Daily evaporation (inches) and wind movement (miles) for July, 1942 (See temperature and precipitation data on the preceding pages)

Table with columns: Stations, Date, Day of Month (1-31), Total. Rows include Backus Ranch, Beaumont, Boca, Camp Pardee, Chula Vista, Davis, Fall River Mill, Friant Gov. Ct., Lodi, Newark, Oakdale, Tahoe.

*Observations taken at 6:00 a. m.; **6:30 a. m.; †7:00 a. m.; ***7:30 a. m.; §11:00 a. m.; ¶4:00 p. m.; §§10:30 p. m. included in the next following entry. Wind movement by 4-cup anemometer.

COMPARATIVE DATA FOR JULY

Table with columns: Year, Temperature (Mean, Highest, Lowest), Precipitation (Average), Number of days (Clear, Partly cloudy, Cloudy).

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Table with columns: Stations, Atmospheric pressure (Mean, Highest, Date, Lowest), Wind (Average hourly velocity, Maximum velocity, Direction, Date), Relative humidity (1:30 a. m., 10:30 a. m., 4:30 p. m.), Percentage of sunshine.

†Also on other dates. †Los Angeles and San Francisco, local noon.

OBSERVERS' NOTES—Continued

BLYTHE— A miniature cyclone struck at 7:00 p. m. of the 15th about 14 miles west of Blythe, damaging 26 civilian airplanes and ruining 1 1/2 miles of a high tension power line.

O. W. Malmgren

BONITA — It was a cool July with only eight days with temperatures of 80° or higher. There was high fog nearly every morning and very few summer thunderstorms over the mountains; very little real summer weather.

R. M. Allen

IRON MOUNTAIN— The thunderstorms on the 14th, 22nd, 24th, 25th, and 28th were about one mile east and north of here where there was heavy rains; no rain at this station on these dates.

Gus McGinnis

LAKE ARROWHEAD — A brush fire burned over 3 1/2 acres near Deer Lodge Park on the 11th.

Melvin R. Burtman

TWENTYNINE PALMS— A duststorm occurred at 7:30 p. m. of the 15th, when a 55 mile wind was reported at the Twenty-nine Palms Air Academy.

J. E. Cole

OBSERVERS' NOTES

BACKUS RANCH — The wind movement was low and both days and nights were warm. The evaporation was subnormal. O. J. Backus
WARNER SPRINGS — On the 15th there was a heavy thunderstorm 10 miles west of this station. C. R. Green

ERRATA

Correct 1942 Monthly Climatological Data to read:

May: Page 53 — San Diego: Mean temperature 63.3°; departure, +2.5°. Page 57—San Diego: Minimum temperature on 19th, 55°; monthly mean minimum temperature, 56.0°.