

U. S. DEPARTMENT OF AGRICULTURE  
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

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# CLIMATOLOGICAL DATA

CALIFORNIA SECTION

AUGUST, 1915

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BY

GEORGE H. WILLSON

DISTRICT FORECASTER AND SECTION DIRECTOR

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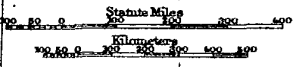


SAN FRANCISCO, CAL.  
WEATHER BUREAU OFFICE  
SEPTEMBER 20, 1915

# Departure of the Mean Temperature from the Normal, August, 1915.



Shaded portions show excess (+).  
 Unshaded portions show deficiency (-).  
 Lines show amount of excess or deficiency.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CALIFORNIA SECTION.

G. H. WILLSON, District Forecaster.

VOL. XIX. SAN FRANCISCO, AUGUST, 1915. No. 8.

GENERAL SUMMARY.

The month passed without any very noteworthy departures from normal weather conditions, barring the disturbances of the 26th in the southern end of the State. On this date thunderstorms visited nearly all sections south of the Tehachepi, causing brisk winds and widespread precipitation. Naturally the larger amounts of rainfall were recorded in the mountain regions, but generous showers also fell at many places in the valleys and foot-hills. Several observers made special mention of the force of the wind which preceded or accompanied the precipitation. Among the stations so reporting were Brawley, Gray Mountain and Riverside. At the latter point the rain which followed the blow totalled over an inch and fell in one and one-half hours. At various places where no rain fell the wind raised heavy sand or dust storms. Among the latter was Fontana, where the maximum wind was reported as reaching a velocity of 48 miles an hour, causing a sand storm and some slight damage to the bean crop. Hail occurred at some places in the mountains, and some of the creeks were reported swollen as the result of the heavy rains in the upper water-sheds. The only other periods in which thunderstorms were generally reported were the 4th, 14th-15th and 31st, but scarcely any precipitation was recorded in connection with them.

Temperatures, while averaging above normal over the State as a whole, were most noticeably so along the coast and in the coast range of mountains. They were actually below normal in the upper Sacramento Valley, parts of the Siskiyou Mountains and throughout the southern portion of the Sierra. There were the usual hot spells in the great interior valleys, notably from the 26th to 31st when the temperature ranged from 8 to 16 degrees above normal in the Sacramento and San Joaquin.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea-level, was 29.89 inches.

The highest was 30.16 inches at Eureka on the 9th.

The lowest was 29.63 inches at Red Bluff on the 31st.

The range for the State was 0.53 inch.

TEMPERATURE.

The monthly mean temperature for the State was 74.2 degrees, which is 1.4 degrees above the normal.

The highest monthly mean was 93.2 degrees at Mammoth Tank and the lowest was 55.3 degrees at Fordyce Dam.

The highest temperature, 120 degrees, occurred at Indio on the 19th and the lowest was 25 degrees at Cahuilla on the 5th.

The range for the State was 95 degrees.

PRECIPITATION.

The average precipitation for the State was 0.06 inch or 0.02 inch below the normal.

The greatest monthly amount was 1.83 inches at Julian while none occurred at 198 stations.

The greatest amount in 24 hours was 1.73 inches at Julian on the 26th.

No snow fell at any station.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—Alturas, 14, 15, 22; Angels Camp, 31; Arrowhead Springs, 26; Ben Lomond, 31; Cahuilla, 26; Camp-

bell, 31; Campo, 26; Chester, 14, 15, 23, 24; Converse Nursery, 4, 26, 27; Corona, 26; Covelo, 15, 24; Deer Creek, Electra, 31; Escondido, 26; Glennville, 29; Happy Camp, 15, 22, 24; Hayfork, 15, 22-25; Independence, 30, 31; Hullville, 25; La Jolla, 26; La Porte 24; Lick Observatory, 31; Lindsay, 30; Lone Pine, 29; Los Gatos, 31; Madeline, 25-27; Mesa Grande, Mill Creek No. 2, 26; Milton, 31; Mineral, 14, 15, 22-24; Mokelumne Hill, 31; Montague, 24; Nellie, 26; North Bloomfield, Oakdale, 31; Oak Grove, 26; Oceanside, 27, 28; Rialto (near), Riverside, 4, 26; Ruth, 24; Sacramento, 31; San Bernardino, 26; San Jose, Stockton, S. H., 31; Tejon Rancho, 26; Three Rivers, 30; Watsonville, 31; Yreka, 15, 16.

Earthquakes.—Mineral, 6; Spreckels, 5.

RELATIVE HUMIDITY.—(Per Cent.)

STATIONS.	5 A. M.	5 P. M.	Mean.
Eureka.....	94	82	88
Fresno.....	55	17	36
Los Angeles.....	89	57	73
Mount Tamalpais.....	43	38	40
Red Bluff.....	54	20	37
Sacramento.....	80	29	54
San Diego.....	92	76	84
San Francisco.....	92	73	83
San Jose.....	86	50	68
San Luis Obispo.....	88	51	70

SUNSHINE AND CLOUDINESS.

STATIONS.	Actual Hours of Sunshine.	Percent of the Possible.
Eureka.....	139	33
Fresno.....	418	100
Los Angeles.....	328	79
Mount Tamalpais.....	413	98
Red Bluff.....	416	98
Sacramento.....	394	93
San Diego.....	318	77
San Francisco.....	273	65
San Jose.....	359	85
San Luis Obispo.....	340	82

WIND MOVEMENT.—(Miles.)

STATIONS.	Total Movement for Mo.	Avr. Hr. Vel.	Max. Vel.	Dir.	Date.
Eureka.....	3734	5.0	19	n	2
Fresno.....	5918	8.1	22	nw	31
Independence.....	3992	5.4	33	se	26
Los Angeles.....	3691	5.0	21	e	26
Mount Tamalpais.....	10759	14.5	69	n	3
Point Reyes.....	18808	25.3	60	nw	10
Red Bluff.....	2868	3.9	13	n	2
Sacramento.....	5740	7.7	19	s	23
San Diego.....	4399	5.9	20	nw	18
San Francisco.....	8433	11.3	36	sw	2
San Jose.....	2960	4.0	19	nw	3
San Luis Obispo.....	2462	3.3	12	nw	11

The prevailing direction of the wind for the State was west.

Climatological Data for August, 1915.

Table with columns: Stations, Counties, Elevation, Length of record, Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range, Total, Departure from normal, Greatest in 24 hours, Snowfall, Precipitation, Number of days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

Climatological Data for August, 1915.—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Snowfall), Number of days (Precipitation of inch or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.







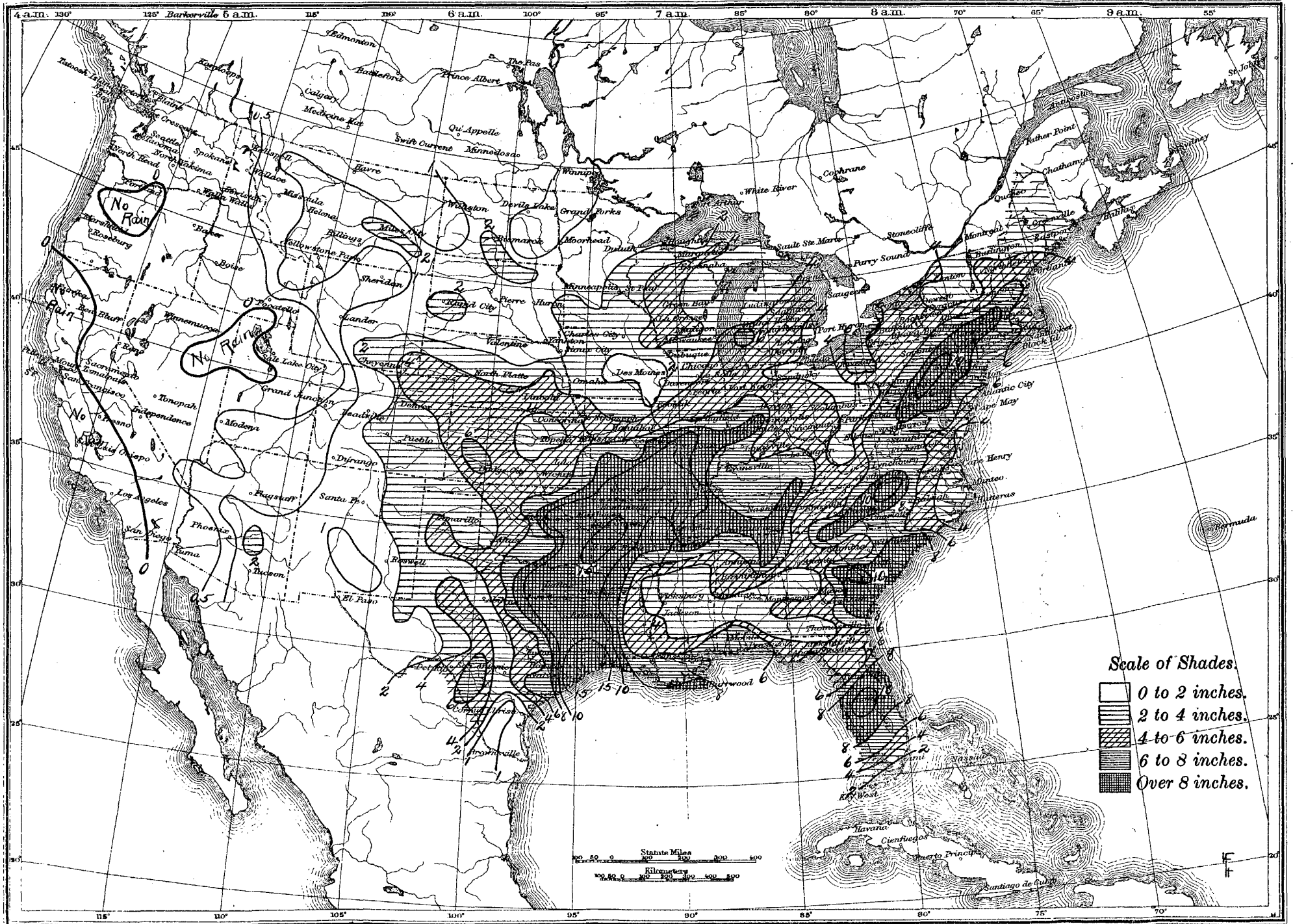




Daily Temperature for August, 1915.

Table with columns for Stations, 1-31, and Mean. Rows list various California locations such as Alturas, Bakersfield, Barstow, etc., with their corresponding temperature data for each day of the month.

# Total Precipitation, Inches, August, 1915.





The influence of the diversified topography of California upon its precipitation is shown by the lines of equal rainfall in inches, on the accompanying relief map.