

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

CALIFORNIA SECTION

OCTOBER, 1915

BY
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DISTRICT FORECASTER AND SECTION DIRECTOR



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

Departure of the Mean Temperature from the Normal, October, 1915.



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CALIFORNIA SECTION.

G. H. WILLSON, District Forecaster.

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GENERAL SUMMARY.

There was but one period of wet weather, viz., that of the 22nd-23rd, to interrupt what would otherwise have been a month of practically unbroken drought. Very light showers, to be sure, fell at widely separated places in some of the northern counties on the 13th and 14th, but these dates could not by any means be described as embracing a rainy period in any important agricultural area. Even the precipitation of the 22nd and 23rd covered only the elevated regions in the northern portion of the State, leaving all but the northern end of the Sacramento Valley and the east foot-hill region untouched. The coast range from Mendocino north, however, was thoroughly drenched, and there were districts in the Siskiyou and from Butte County to Placer in the Sierra that were well watered. At no point did the monthly rainfall equal the normal, and the deficiency for the State as a whole was very marked.

Temperatures generally averaged above normal. This was particularly true of the Sacramento and San Joaquin valleys, where normal values were exceeded on nearly every day in the month except during the cool spell of the 5th, 6th and 7th. Grape harvesting and raisin drying continued without hindrance from adverse weather conditions.

Along the southern California coast, especially in Santa Barbara and San Diego counties, the weather was a trifle cool for October and fog occurred with unusual frequency. The Co-operative Observer at Santa Barbara, Mr. G. W. Russell, commenting on this states that bean threshing was made very difficult, and adds that there were only three days when there was no fog during the 24 hours, and that precipitation from fog on several occasions measured over .02 inch.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea-level, was 30.01 inches.

The highest was 30.36 inches at Eureka on the 24th.

The lowest was 29.68 inches at Independence on the 10th.

The range for the State was 0.68 inch.

TEMPERATURE.

The monthly mean temperature for the State was 62.3 degrees, which is 1.2 degrees above the normal.

The highest monthly mean was 79.6 degrees at Mammoth Tank and the lowest was 43.0 degrees at Fordyce Dam.

The highest temperature, 105 degrees, occurred at Riverside on the 28th, and the lowest was 8 degrees at Macdoel on the 25th.

The range for the State was 97 degrees.

PRECIPITATION.

The average precipitation for the State was 0.14 inch or 1.31 inches below the normal.

The greatest monthly amount was 2.42 inches at Branscomb while none occurred at 185 stations.

The greatest amount in 24 hours was 2.00 inches at Branscomb on the 23rd.

No snow fell at any station from which reports were received.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—None.

Earthquakes.—Livermore, Oakland, Petaluma, San Francisco, 1; Alturas, Camptonville, Chester, Chico, Cisco, Colgate, Colusa, De Sabla, Donner, Fort Bidwell, Gold Run, Lathrop, Lindsay, McCloud, Magalia, Nevada City, Oroville, Priest Valley, San Francisco, Santa Clara, Stockton, Tallac, 2; Mount Tamalpais, Oakland, Peachland, Petaluma, San Francisco, Santa Clara, 7; Petaluma, 8; Converse Nursery, Holcomb, Redlands, 9; Oakland, 21; Holcomb, 22, 23.

RELATIVE HUMIDITY.—(Per Cent.)

| Stations. | 5 A. M. | 5 P. M. | Mean. |
|----------------------|---------|---------|-------|
| Eureka..... | 92 | 82 | 87 |
| Fresno..... | 64 | 23 | 44 |
| Los Angeles..... | 80 | 64 | 72 |
| Mount Tamalpais..... | 42 | 38 | 40 |
| Red Bluff..... | 51 | 22 | 36 |
| Sacramento..... | 70 | 26 | 48 |
| San Diego..... | 89 | 80 | 84 |
| San Francisco..... | 88 | 67 | 78 |
| San Jose..... | 91 | 52 | 72 |
| San Luis Obispo..... | 90 | 59 | 74 |

SUNSHINE AND CLOUDINESS.

| Stations. | Actual Hours of Sunshine. | Percent of the Possible. |
|----------------------|---------------------------|--------------------------|
| Eureka..... | 146 | 42 |
| Fresno..... | 343 | 98 |
| Los Angeles..... | 296 | 84 |
| Mount Tamalpais..... | 326 | 94 |
| Red Bluff..... | 319 | 92 |
| Sacramento | 315 | 91 |
| San Diego..... | 278 | 79 |
| San Francisco..... | 269 | 77 |
| San Jose..... | 298 | 86 |
| San Luis Obispo..... | 261 | 75 |

WIND MOVEMENT.—(Miles.)

| Stations. | Total Movement for Mo. | Avg. Hr. Vel. | Max. Vel. | Dir. | Date. |
|----------------------|------------------------|---------------|-----------|------|-------|
| Eureka..... | 3788 | 5.1 | 36 | n | 3 |
| Fresno..... | 4102 | 5.5 | 22 | nw | 2 |
| Independence..... | | | 28 | se | 22 |
| Los Angeles..... | 3298 | 4.4 | 15 | s | 11 |
| Mount Tamalpais..... | 12018 | 16.2 | 60 | n | 1 |
| Point Reyes..... | 13824 | 18.6 | 60 | nw | 10 |
| Red Bluff..... | 3881 | 5.2 | 31 | nw | 3 |
| Sacramento | 4803 | 6.5 | 27 | nw | 2 |
| San Diego..... | 4144 | 5.6 | 23 | nw | 30 |
| San Francisco..... | 5682 | 7.6 | 33 | sw | 17 |
| San Jose..... | 2315 | 3.1 | 18 | s | 23 |
| San Luis Obispo..... | 2402 | 3.2 | 24 | ne | 24 |

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

Total Precipitation, Inches, October, 1915.



Scale of Shades.

- [Lightest shade] 0 to 2 inches.
- [Medium-light shade] 2 to 4 inches.
- [Medium-dark shade] 4 to 6 inches.
- [Dark shade] 6 to 8 inches.
- [Darkest shade] Over 8 inches.



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.