U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CALIFORNIA SECTION.

EDWARD A. BEALS, METEOROLOGIST.

Vol. XXIV. SAN FRANCISCO, DECEMBER, 1920. No. 12

## GENERAL SUMMARY.

December was somewhat colder than normal in California. Markedly deficient sunshine throughout northern California and cold nights in the southern portion of the State kept the mean temperature relatively low. Extremely cold weather prevailed in the Sierra Nevada Mountains and in the northeastern plateau region where temperatures below zero were commonplace.

Precipitation was irregularly distributed. It was an abnormally wet month in northern California, while in southern California little or no rain fell. Abundant snow fell in the Sierra Nevada Mountains, while in the elevated portions of the south the snowfall was light, and little unmelted snow remained on the ground at the close of the month. Precipitation occurred somewhere in the State on every day of the month. Rainfall was particularly heavy in northern California between the 7th and 11th, and again between the 18th and 24th. At Wright's, Santa Cruz County, 6.07 inches of rain fell in 24 hours on the 9th-10th. Scattered light hail fell at many stations, but no damage resulted from that cause. While storms were of frequent occurrence, none was of destructive violence. Rivers in northern California rose rapidly following the advent of the rains, and a few of the smaller streams reached high stages, but no extensive damage from floods resulted. As far as human comfort was concerned, it was a gloomy and unpleasant month.

Agriculturally, the generous rains in northern California were beneficial, while deficient precipitation in the south was harmful. Farm work was generally backward, due in the north to the fact that excessive rainfall saturated the soil so that it could not be worked to advantage, while in the south lack of moisture caused it to become too hard for plowing. Growth was slow in consequence of insufficient sunshine in the north, and the prevalence of cold, frosty nights in the south. While frosts were of frequent occurrence in the agricultural regions, few were sufficiently severe to cause extensive damage. Maturing oranges and lemons escaped damage from frost, and all citrus fruits made good progress. The copious rains in the north were of especial benefit to unirrigated deciduous fruit trees which previously were in a weakened condition because of protracted drought. Unfortunately the rice harvest was not completed before the heavy rains began, and a large amount of unharvested rice remained in the fields at the close of the month. Except in southern counties, green feed was abundant, and grazing stock maintained excellent condition.

A. H. P.

## PRESSURE.

The mean sea-level pressure, determined from the records of 12 regular Weather Bureau stations, was 30.09 inches. The highest was 30.48 inches at Independence on the 15th; the lowest was 29.49 inches at Point Reyes on the 19th; the range for the State was 0.99 inch.

## TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 98 stations, was 45.7°, which is 1.0° below the normal.

The highest monthly mean was 55.8°, at Los Angeles; and the lowest was 21.6°, at Madeline.

The highest temperature, 82°, occurred at El Cajon on the 14th; and the lowest, −11°, occurred at Madeline on the 12th.

The range for the State was 93°.

## PRECIPITATION.

The average precipitation for the State, as shown by the records of 249 stations, was 5.73 inches, or 1.70 inches above the normal.

The greatest monthly amount was 23.47 inches, at Wright's. No rain fell at 5 stations.

The greatest amount in 24 hours was 6.07 inches at Wright's on the 9th–10th.

## RELATIVE HUMIDITY, SUNSHINE AND CLOUDINESS.

| Stations. | Relative humidity Per cent. | | | Sunshine. | |
|---|---|---|---|---|---|
| | 5 a.m. | 5 p.m. | Mean. | Actual No. of hours | Per cent of possible. |
| Eureka | 88 | 85 | 86 | 56 | 19 |
| Fresno | 89 | 69 | 79 | 144 | 48 |
| Independence | 65 | 40 | 52 | 223 | 75 |
| Los Angeles | 68 | 62 | 65 | 212 | 69 |
| Mount Tamalpais | ..... | 86 | ..... | 176 | 60 |
| Red Bluff | 88 | 74 | 81 | 143 | 46 |
| Sacramento | 94 | 85 | 90 | 117 | 40 |
| San Diego | 74 | 74 | 74 | 223 | 72 |
| San Francisco | 80 | 70 | 75 | 163 | 55 |
| San Jose | ..... | 75 | ..... | 139 | 47 |
| San Luis Obispo | 79 | 65 | 72 | 188 | 62 |

## WIND MOVEMENT.—(Miles.)

| Stations. | Total mov. for month. | Ave. hr. velocity. | Maximum velocity. | Direction. | Date. | Prev. dir. |
|---|---|---|---|---|---|---|
| Eureka | 5,304 | 7.1 | 40 | nw. | 11 | se. |
| Fresno | 4,123 | 5.5 | 31 | nw. | 19 | nw. |
| Independence | 3,852 | 5.2 | 30 | se. | 11 | nw. |
| Los Angeles | 4,341 | 5.8 | 30 | nw. | 20 | ne. |
| Mount Tamalpais | 16,249 | 21.8 | 70 | sw. | 11 | nw. |
| Point Reyes | 17,152 | 23.1 | 80 | s. | 19 | nw. |
| Red Bluff | 4,488 | 6.0 | 35 | se. | 11 | nw. |
| Sacramento | 5,238 | 7.4 | 36 | se. | 9 | se. |
| San Diego | 3,976 | 5.3 | 33 | w. | 19 | nw. |
| San Francisco | 6,264 | 8.4 | 34 | sw. | 1 | se. |
| San Jose | 4,852 | 6.5 | 34 | e. | 9 | se. |
| San Luis Obispo | 2,915 | 3.9 | 23 | nw. | 19 | n. |

## COMPARATIVE DATA FOR DECEMBER.

| Year | Mean temp. | Ave. precip. | Year | Mean precip. | Ave. temp. | Year | Mean temp. | Ave. precip. | Year | Mean temp. | Ave. precip. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1897 | 44.4 | 1.75 | 1903 | 48.0 | 1.44 | 1909 | 43.3 | 6.92 | 1915 | 45.7 | 5.56 |
| 1898 | 44.4 | 1.20 | 1904 | 47.2 | 3.04 | 1910 | 47.8 | 1.87 | 1916 | 41.8 | 5.81 |
| 1899 | 45.8 | 3.03 | 1905 | 45.3 | 1.55 | 1911 | 43.3 | 2.05 | 1917 | 49.8 | 1.43 |
| 1900 | 47.3 | 1.68 | 1906 | 47.3 | 8.42 | 1912 | 44.7 | 1.58 | 1918 | 43.8 | 2.10 |
| 1901 | 47.4 | 1.45 | 1907 | 48.3 | 5.41 | 1913 | 44.8 | 7.04 | 1919 | 46.1 | 3.87 |
| 1902 | 46.6 | 2.96 | 1908 | 43.2 | 2.33 | 1914 | 41.8 | 5.00 | 1920 | 45.7 | 5.73 |

**Daily evaporation (inches) and wind movement (miles) for December.**

| Stations. | Data. | Day of Month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Total |
| Chula Vista**. | Evaporation | .093 | .049 | .107 | .129 | .119 | .121 | .050 | .072 | .081 | .087 | .131 | .093 | .109 | .109 | .341 | .081 | .080 | .105 | .175 | .153 | .087 | .057 | .061 | .057 | .085 | .071 | .079 | .068 | .067 | .047 | .087 | 3.051 |
| | Wind movement | 74 | 99 | 79 | 71 | 80 | 84 | 78 | 65 | 60 | 72 | 151 | 66 | 68 | 52 | 134 | 61 | 50 | 75 | 255 | 148 | 82 | 102 | 66 | 88 | 69 | 51 | 57 | 63 | 69 | 67 | 69 | 2,585 |
| Dodgeland*. | Evaporation | .024 | .009 | .066 | .014 | .077 | .049 | .000 | .092 | .038 | .061 | .130 | .061 | .028 | .026 | .071 | .026 | .040 | .014 | .000 | .000 | .004 | .051 | .004 | .040 | .017 | .010 | .011 | .004 | .046 | .004 | .010 | 1.018 |
| | Wind movement | 14 | 55 | 7 | 11 | 47 | 55 | 22 | 38 | 24 | 87 | 92 | 15 | 22 | 38 | 115 | 93 | 58 | 6 | 70 | 48 | 11 | 14 | 19 | 46 | 10 | 20 | 19 | 7 | 5 | 16 | 49 | 1,133 |
| Oakdale (near)*. | Evaporation | .010 | .051 | .025 | .087 | .073 | .082 | .131 | .084 | .039 | .043 | .053 | .001 | .037 | .025 | .025 | .045 | .000 | .015 | .141 | .056 | .000 | .002 | .000 | .000 | .000 | .026 | .012 | .029 | .009 | .046 | .000 | 1.127 |
| | Wind movement | 50 | 135 | 70 | 105 | 135 | 115 | 245 | 180 | 150 | 200 | 180 | 120 | 100 | 50 | 60 | 50 | 50 | 75 | 325 | 100 | 105 | 155 | 70 | 240 | 80 | 90 | 60 | 60 | 60 | 135 | 155 | 3,705 |
| Tahoe**. ‡ | Evaporation | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Wind movement | 42 | 27 | 39 | * | 198 | 64 | 49 | 14 | 83 | * | * | 172 | 132 | 25 | 129 | 79 | 76 | 86 | * | * | * | * | 484 | 73 | 81 | 33 | 111 | 104 | 111 | 137 | 72 | 2,421 |

* Observations taken at 7 a. m.; ** at 8 a. m. ‡ Included in the next following entry.

**Climatological Data for December, 1920.**

| Stations. | Counties. | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. | | | | | | | Precipitation, in inches. | | | | Number of days. | | | | Prevailing direction of wind. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Snowfall (unmelted). | Precipitation .01 inch or more | Clear. | Partly cloudy. | Cloudy. | | |
| Antioch | Contra Costra | 46 | 41 | 46.6 | −1.7 | 60 | †1 | 33 | †6 | 23 | 3.64 | +1.31 | .58 | 0 | 11 | 2 | 6 | 23 | e. | C. G. McDaniel. |
| Atascadero | San Luis Obispo | 837 | 4 | 43.1 | ..... | 60 | 2 | 20 | 6 | 39 | 2.44 | ..... | .62 | 0 | 13 | 14 | 3 | 14 | se. | Colony Holding Corp. |
| Bakersfield | Kern | 404 | 31 | 49.0 | +1.5 | 70 | 17 | 28 | 13 | 38 | .76 | +.07 | .29 | 0 | 6 | 1 | 15 | 15 | nw. | Santa Fe Co. |
| Barstow | San Bernardino | 2,105 | 17 | 43.4 | −3.4 | 68 | 1 | 20 | †6 | 39 | .18 | −.42 | .18 | 0 | 1 | 26 | 1 | 4 | w. | E. L. White. |
| Berkeley | Alameda | 317 | 33 | 49.1 | −0.6 | 61 | †26 | 37 | 12 | 21 | 6.97 | −2.54 | .80 | 0 | 16 | 12 | 11 | 8 | w. | State University. |
| Blue Canon | Placer | 4,695 | 21 | 37.7 | −2.5 | 64 | †17 | 11 | 13 | 34 | 16.59 | +7.53 | 2.41 | 0 | 17 | 13 | 2 | 16 | se. | Southern Pacific Co. |
| Blythe | Riverside | 268 | 11 | 50.6 | ..... | 78 | 19 | 27 | †12 | 46 | 0 | ..... | 0 | 0 | 0 | 13 | 18 | 0 | sw. | Palo Verde Water Co. |
| Bonita | San Diego | 110 | 4 | 52.6 | ..... | 80 | 15 | 32 | 6 | 42 | .49 | ..... | .23 | 0 | 5 | 11 | 13 | 7 | w. | R. M. Allen. |
| Branscomb | Mendocino | 2,000 | 20 | 42.4 | −2.1 | 65 | 27 | 27 | †5 | 27 | 23.02 | +10.04 | 4.40 | T. | 20 | 8 | 4 | 19 | n. | A. J. Haun. |
| Brawley | Imperial | −105 | 10 | 50.8 | ..... | 75 | 1 | 28 | 14 | 48 | T. | ..... | T. | 0 | 0 | ..... | ..... | ..... | .. | M. D. Witter |
| Calexico | Imperial | 0 | 15 | 52.8 | +0.3 | 78 | 2 | 29 | 14 | 44 | 0 | −.37 | 0 | 0 | 0 | 18 | 8 | 5 | w. | H. M. Rouse. |
| Chico | Butte | 189 | 50 | 45.7 | −1.8 | 61 | 2 | 30 | †5 | 25 | 7.67 | +3.49 | 1.93 | 0 | 15 | 10 | 10 | 11 | se. | U. S. Bureau Plant Ind. |
| Chula Vista | San Diego | 9 | 2 | 52.0 | ..... | 78 | 15 | 38 | †12 | 29 | .41 | ..... | .22 | 0 | 4 | ..... | ..... | ..... | nw. | Western Salt Works. |
| Claremont | Los Angeles | 1,200 | 28 | 49.7 | −2.7 | 76 | 29 | 29 | †21 | 42 | 1.26 | −.62 | .81 | 0 | 6 | 21 | 3 | 7 | s. | Prof. F. P. Brackett. |
| Cloverdale | Sonoma | 340 | 18 | 46.9 | −1.1 | 62 | †14 | 31 | 15 | 27 | 11.30 | +5.79 | 1.61 | 0 | 18 | 12 | 0 | 19 | n. | John O. Ogle. |
| Colfax | Placer | 2,421 | 49 | 42.6 | −4.0 | 60 | 29 | 29 | 12 | 26 | 10.62 | +2.59 | 1.58 | 1.0 | 12 | 10 | 6 | 15 | s. | Southern Pacific Co. |
| Colusa | Colusa | 60 | 17 | 45.8 | +0.6 | 61 | 26 | 31 | 20 | 25 | 5.48 | +2.20 | 1.51 | 0 | 16 | 15 | 1 | 15 | nw. | E. A. Houchins. |
| Corona | Riverside | 615 | 6 | 53.0 | ..... | 80 | 1 | 30 | 21 | 35 | .67 | ..... | .42 | 0 | 5 | 16 | 6 | 9 | e. | Edwin T. Brink. |
| Crescent City | Del Norte | 125 | 6 | 46.4 | −0.8 | 67 | 6 | 33 | 24 | 30 | 21.20 | +9.50 | 2.40 | 0 | 19 | 0 | 4 | 27 | s. | Thos. E. Peacock. |
| Davis | Yolo | 51 | 48 | 45.6 | −3.2 | 59 | 2 | 31 | †13 | 24 | 4.39 | +1.16 | 1.00 | 0 | 14 | 14 | 5 | 12 | n. | Prof. S. H. Beckett. |
| Dodgeland | Butte | 125 | 2 | 43.8 | ..... | 61 | 3 | 29 | 21 | 26 | 6.30 | ..... | 1.85 | 0 | 15 | 8 | 6 | 17 | s. | Dodge Land Co. |
| Durham | Butte | 160 | 25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. W. Durham. |
| El Cajon | San Diego | 482 | 21 | 52.4 | −1.7 | 82 | 14 | 28 | 14 | 54 | .69 | −.59 | .39 | 0 | 5 | 25 | 4 | 2 | sw. | Eugene P. Kessler. |
| Elsinore | Riverside | 1,300 | 4 | 51.0 | ..... | 78 | 1 | 26 | 21 | 40 | .42 | ..... | .30 | 0 | 3 | 12 | 11 | 8 | ne. | W. L. Wilhite. |
| Escondido | San Diego | 742 | 26 | 52.1 | +1.4 | 79 | 14 | 31 | 21 | 44 | 1.17 | −.18 | .70 | 0 | 5 | 17 | 11 | 3 | n. | H. L. Harlow. |
| EUREKA | Humboldt | 64 | 34 | 48.4 | +0.4 | 67 | 15 | 35 | 5 | 27 | 10.89 | +3.64 | 1.71 | 0 | 23 | 2 | 6 | 23 | se. | U. S. Weather Bureau. |
| Folsom | Sacramento | 252 | 47 | 48.6 | +1.6 | 65 | 26 | 32 | †14 | 21 | 6.67 | +2.47 | .85 | 0 | 14 | 11 | 0 | 20 | s. | Mrs. G. I. Marvin. |
| Fontana | San Bernardino | 1,325 | 8 | 49.4 | ..... | 73 | 28 | 29 | 21 | 33 | 1.60 | ..... | .75 | 0 | 6 | 24 | 3 | 4 | sw. | Fontana Land Co. |
| Fort Bidwell | Modoc | 4,375 | 31 | 30.6 | −2.2 | 51 | †27 | 7 | 21 | 31 | 2.61 | −.44 | .70 | 17.5 | 9 | 2 | 8 | 21 | .. | C. R. Decious. |
| FRESNO | Fresno | 293 | 33 | 47.5 | +0.7 | 64 | 17 | 32 | 5 | 27 | 1.07 | −.46 | .24 | 0 | 13 | 12 | 6 | 13 | nw. | U. S. Weather Bureau. |
| Grass Valley | Nevada | 2,690 | 48 | 41.7 | ..... | 58 | †14 | 26 | †5 | 26 | 14.41 | +6.20 | 2.31 | 2.0 | 16 | 12 | 2 | 17 | se. | Mrs. L. M. Wentworth. |
| Greenland Ranch | Inyo | −178 | 9 | 46.4 | ..... | 71 | 2 | 28 | 19 | 35 | 0 | ..... | 0 | 0 | 0 | 28 | 0 | 3 | ..... | O. A. Denton. |
| Hanford | Kings | 249 | 20 | 39.6 | −6.0 | 62 | 9 | 27 | †4 | 24 | .85 | −.09 | .20 | 0 | 11 | 5 | 0 | 26 | ..... | Santa Fe Co. |
| Healdsburg | Sonoma | 110 | 27 | 47.8 | +0.8 | 67 | 29 | 31 | 14 | 29 | 12.37 | +5.34 | 2.12 | 0 | 14 | 4 | 14 | 13 | s. | Dr. F. J. Kinley. |
| Hollister | San Benito | 284 | 46 | 47.6 | −2.5 | 61 | 6 | 28 | 6 | 33 | 2.90 | +.93 | .52 | 0 | 15 | 12 | 4 | 15 | nw. | Grangers' Union. |
| INDEPENDENCE | Inyo | 3,957 | 24 | 40.2 | −1.4 | 69 | 27 | 21 | 13 | 38 | .32 | −.46 | .22 | 0 | 4 | 15 | 11 | 5 | nw. | U. S. Weather Bureau. |
| Indio | Riverside | −20 | 42 | 51.1 | −5.5 | 75 | †1 | 30 | †6 | 41 | 0 | −.42 | 0 | 0 | 0 | 13 | 15 | 3 | se. | U. S. Bureau Plant Ind. |
| Inskip | Butte | 4,975 | 13 | 34.6 | ..... | 56 | 27 | 21 | 12 | 24 | 21.06 | ..... | 4.14 | 88.0 | 14 | 5 | 8 | 18 | ..... | Pacific Gas & Electric Co |
| Kennett | Shasta | 730 | 8 | 43.2 | ..... | 66 | 27 | 29 | 11 | 28 | 17.04 | ..... | 2.35 | 2.0 | 14 | 4 | 4 | 23 | sw. | Mammoth Copper Mine. |
| La Porte | Plumas | 5,000 | 26 | 28.7 | −6.5 | 41 | †16 | 10 | 12 | 19 | 14.41 | +3.48 | 2.42 | 66.1 | 16 | 9 | 7 | 15 | ..... | Wm. Schuld. |
| Lemon Cove | Tulare | 600 | 25 | 47.0 | −0.7 | 64 | †1 | 29 | 4 | 34 | 2.46 | +.82 | .73 | 0 | 11 | 10 | 8 | 13 | nw. | T. E. Bence. |
| Lick Observatory | Santa Clara | 4,209 | 31 | 39.8 | −2.1 | 61 | 27 | 24 | †12 | 22 | 8.33 | +2.02 | 1.87 | T. | 15 | 9 | 9 | 13 | n. | Lick Observatory. |
| Lindsay | Tulare | 384 | 6 | 46.6 | ..... | 66 | †1 | 26 | 13 | 37 | 1.49 | ..... | .46 | 0 | 12 | 6 | 6 | 19 | .. | Basil Prior. |
| Lone Pine | Inyo | 3,728 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. F. Marsh. |
| LOS ANGELES | Los Angeles | 293 | 43 | 55.8 | −0.7 | 75 | 14 | 41 | 21 | 25 | 1.01 | −1.89 | .59 | 0 | 5 | 15 | 7 | 9 | ne. | U. S. Weather Bureau. |
| McCloud | Siskiyou | 3,270 | 10 | 35.2 | ..... | 54 | 2 | 10 | 14 | 33 | 9.86 | ..... | 1.80 | 47.5 | 13 | 5 | 4 | 22 | s. | McCloud River Lbr. Co. |
| Marysville | Yuba | 67 | 49 | 46.2 | −3.7 | 57 | †2 | 31 | 20 | 24 | 6.04 | +2.47 | 1.00 | 0 | 13 | 11 | 4 | 16 | n. | Southern Pacific Co. |
| Mecca | Riverside | −185 | 14 | 51.2 | −1.5 | 74 | 3 | 28 | †7 | 41 | 1.03 | +.63 | 1.03 | 0 | 1 | 17 | 9 | 5 | se. | Cooperative Date Garden. |
| Merced | Merced | 173 | 46 | 46.3 | −2.0 | 62 | 1 | 28 | 21 | 29 | 2.62 | +1.03 | .51 | 0 | 14 | 8 | 10 | 13 | nw. | Santa Fe Co. |
| MOUNT TAMALPAIS | Marin | 2,375 | 21 | 43.0 | −4.6 | 56 | 28 | 32 | 9 | 17 | 6.88 | +2.98 | 1.12 | 0 | 21 | 7 | 7 | 17 | nw. | U. S. Weather Bureau. |
| Mount Wilson | Los Angeles | 5,704 | 3 | 43.1 | ..... | 69 | 28 | 22 | 20 | 26 | 1.73 | ..... | 1.10 | 3.0 | 6 | 14 | 9 | 8 | nw. | Solar Observatory. |
| Napa | Napa | 20 | 43 | 48.9 | +1.2 | 64 | †30 | 32 | †12 | 29 | 6.19 | +2.00 | .94 | 0 | 15 | 10 | 11 | 10 | sw. | State Hospital |
| Needles | San Bernardino | 477 | 28 | 48.0 | −4.8 | 70 | 2 | 28 | 14 | 36 | T. | −.44 | T. | 0 | 0 | 13 | 18 | 0 | ..... | Santa Fe Co. |
| Nevada City | Nevada | 2,850 | 28 | 41.6 | −0.8 | 64 | †27 | 22 | 5 | 33 | 13.34 | +3.36 | 2.11 | 3.5 | 16 | 8 | 10 | 13 | w. | B. H. Preston. |
| Newman | Stanislaus | 91 | 31 | 44.6 | −3.4 | 64 | †1 | 24 | 6 | 35 | 2.26 | +.32 | .59 | 0 | 10 | ..... | ..... | ..... | ..... | E. S. Wangenheim. |
| Oakdale (near) | Stanislaus | 215 | 2 | 43.8 | −0.5 | 63 | 2 | 27 | 19 | 25 | 3.46 | +1.25 | .57 | 0 | 14 | 10 | 7 | 14 | s. | S. San Joaquin Irr. Dist. |
| Oakland | Alameda | 322 | 44 | 48.4 | −0.8 | 57 | 27 | 38 | 12 | 12 | 7.40 | +3.54 | 1.16 | 0 | 17 | 11 | 9 | 11 | nw. | Chabot Observatory. |
| Ojai | Ventura | 900 | 14 | 50.2 | −1.7 | 76 | 14 | 25 | 13 | 45 | 1.00 | −2.42 | .75 | 0 | 5 | 23 | 5 | 3 | sw. | W. H. Duncan. |
| Orland | Glenn | 254 | 38 | 45.0 | −2.9 | 60 | 26 | 31 | 20 | 24 | 4.48 | +1.46 | 1.49 | 0 | 14 | 10 | 9 | 12 | n. | U. S. Rec. Service. |
| Oroville (near) | Butte | 250 | 36 | 45.4 | −2.4 | 64 | 1 | 30 | 14 | 27 | 9.39 | +4.63 | 2.16 | 0 | 14 | 10 | 8 | 13 | ne. | N. R. Heberlie. |
| Pasadena | Los Angeles | 805 | 30 | 51.2 | −2.8 | 73 | 14 | 30 | 21 | 37 | 1.46 | −1.18 | .93 | 0 | 6 | 17 | 6 | 8 | sw. | Morris S. Jones. |
| Paso Robles—1 | San Luis Obispo | 800 | 33 | 46.4 | +1.0 | 66 | 28 | 27 | †5 | 36 | 1.95 | −.70 | .52 | 0 | 13 | 9 | 4 | 18 | sw. | Mrs. A. Z. Campbell. |
| Petaluma | Sonoma | 9 | 6 | 50.1 | ..... | 62 | 30 | 36 | †6 | 23 | 8.03 | +3.10 | 1.39 | 0 | 16 | 11 | 7 | 13 | s. | John Landis. |
| Placerville | El Dorado | 1,925 | 31 | 43.9 | +1.5 | 66 | 1 | 25 | 5 | 28 | 9.85 | +2.63 | 1.80 | 0.5 | 17 | 7 | 0 | 24 | sw. | O. E. Bailey. |
| POINT REYES | Marin | 490 | 28 | 49.8 | −1.1 | 60 | 14 | 42 | 19 | 15 | 5.64 | +2.24 | 2.03 | 0 | 18 | 9 | 10 | 12 | nw. | U. S. Weather Bureau. |
| Pomona | Los Angeles | 857 | 6 | 47.9 | ..... | 74 | 14 | 27 | †6 | 44 | 1.44 | ..... | .78 | 0 | 6 | 8 | 18 | 5 | w. | J. E. Adamson. |
| Porterville | Tulare | 464 | 31 | 47.0 | −0.8 | 68 | 1 | 29 | 13 | 30 | 1.28 | −.21 | .44 | 0 | 7 | 14 | 12 | 5 | ..... | Santa Fe Co. |
| Portola | Plumas | 4,832 | 5 | 30.0 | ..... | 68 | 1 | −10 | †4 | 70 | 3.38 | ..... | .60 | 33.0 | 12 | 18 | 0 | 13 | sw. | Western Pacific Co. |
| RED BLUFF | Tehama | 307 | 43 | 44.8 | −1.6 | 63 | 26 | 32 | 20 | 24 | 5.97 | +1.48 | 1.48 | 0 | 18 | 11 | 10 | 10 | nw. | U. S. Weather Bureau. |
| Redding | Shasta | 552 | 45 | 45.4 | −1.6 | 68 | 27 | 30 | 20 | 24 | 11.40 | +4.91 | 1.39 | 2.0 | 17 | 10 | 8 | 13 | nw. | E. W. Harvey |
| Redlands | San Bernardino | 1,352 | 27 | 49.1 | −3.8 | 79 | 1 | 30 | 6 | 39 | 1.07 | −1.28 | .44 | 0 | 4 | 23 | 2 | 6 | w. | P. W. Moore. |
| Riverside | Riverside | 851 | 38 | 51.4 | −2.0 | 78 | 28 | 28 | 21 | 43 | .77 | −.80 | .39 | 0 | 5 | 17 | 11 | 3 | w. | J. H. D. Cox. |
| Rocklin | Placer | 249 | 49 | 42.2 | ..... | 62 | 1 | 25 | †6 | 30 | 6.37 | +2.54 | 1.00 | 0 | 14 | 10 | 5 | 16 | nw. | Southern Pacific Co. |
| Rohnerville | Humboldt | 75 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. | B. W. Willsie. |
| SACRAMENTO | Sacramento | 71 | 43 | 45.4 | −0.9 | 58 | 1 | 34 | 20 | 18 | 4.32 | +.79 | .95 | 0 | 16 | 11 | 6 | 14 | se. | U. S. Weather Bureau. |
| St. Helena | Napa | 255 | 12 | 48.0 | ..... | 67 | †29 | 30 | †12 | 32 | 10.02 | ..... | 2.15 | 0 | 14 | ..... | ..... | ..... | ..... | St. Helena Star. |
| Salinas | Monterey | 40 | 46 | 49.8 | −0.3 | 69 | 6 | 28 | †5 | 39 | 3.68 | +1.32 | .67 | 0 | 15 | 15 | 7 | 9 | se. | Dr. E. D. Eddy. |
| San Bernardino | San Bernardino | 1,054 | 28 | 50.2 | −2.2 | 77 | 28 | 27 | 21 | 45 | 1.41 | −1.16 | .65 | 0 | 6 | 23 | 3 | 5 | sw. | Dr. A. K. Johnson. |
| SAN DIEGO | San Diego | 87 | 49 | 54.8 | −0.9 | 72 | 15 | 40 | 21 | 25 | .54 | −1.28 | .33 | 0 | 5 | 13 | 13 | 5 | nw. | U. S. Weather Bureau. |
| SAN FRANCISCO | San Francisco | 207 | 49 | 51.1 | +0.2 | 61 | 29 | 42 | 26 | 16 | 7.48 | +3.24 | 2.02 | 0 | 16 | 11 | 6 | 14 | se. | do |
| San Jacinto | Riverside | 1,550 | 27 | 47.6 | −2.7 | 75 | 28 | 26 | 20 | 41 | .63 | −.86 | .29 | 0 | 5 | 16 | 8 | 7 | .... | E. T. Tanner. |
| SAN JOSE | Santa Clara | 95 | 45 | 48.5 | +0.8 | 65 | 6 | 32 | 13 | 32 | 3.58 | +.53 | 1.04 | 0 | 16 | 11 | 5 | 15 | se. | U. S. Weather Bureau. |
| SAN LUIS OBISPO | San Luis Obispo | 201 | 25 | 52.2 | −0.6 | 72 | 27 | 31 | 6 | 32 | 3.85 | +1.51 | 1.22 | 0 | 13 | 13 | 9 | 9 | n. | do |
| Santa Ana | Orange | 133 | 3 | 51.8 | ..... | 76 | †1 | 29 | 21 | 39 | 1.22 | ..... | .56 | 0 | 5 | 17 | 6 | 8 | ne. | Chamber of Commerce. |
| Santa Barbara | Santa Barbara | 130 | 36 | 53.3 | −2.6 | 76 | 14 | 34 | †6 | 38 | 1.51 | −1.82 | .78 | 0 | 6 | 17 | 3 | 11 | w. | G. W. Russell. |
| Santa Cruz | Santa Cruz | 20 | 52 | 50.1 | −2.3 | 67 | †15 | 29 | 5 | 33 | 7.47 | +2.69 | 1.60 | 0 | 12 | 15 | 4 | 12 | w. | W. R. Springer. |
| Santa Rosa | Sonoma | 181 | 31 | 47.5 | −0.7 | 65 | 31 | 22 | 13 | 37 | 8.65 | +3.04 | 1.60 | 0 | 13 | 18 | 0 | 13 | s. | Southern Pacific Co. |
| Seriterre | Butte | 629 | 1 | 46.3 | ..... | 60 | 2 | 33 | †12 | 23 | 9.50 | ..... | 1.95 | 0 | 15 | 9 | 6 | 16 | se. | The Seriterre Co. |
| Sisson | Siskiyou | 3,555 | 31 | 38.2 | +3.5 | 58 | †1 | 14 | 14 | 34 | 5.80 | −.33 | .95 | 45.0 | 13 | 0 | 28 | 3 | s. | Southern Pacific Co. |
| Spreckels | Monterey | 48 | 6 | 45.8 | ..... | 65 | 27 | 27 | 12 | 37 | 3.52 | +1.16 | .88 | 0 | 17 | 14 | 11 | 6 | se. | Spreckels Sugar Co. |
| Squirrel Inn | San Bernardino | 5,280 | 10 | 37.3 | ..... | 62 | 29 | 15 | †21 | 40 | 2.11 | −3.50 | 1.18 | 5.0 | 4 | 23 | 0 | 8 | n. | Mrs. A. D. Frantz. |
| Stockton | San Joaquin | 23 | 49 | 46.2 | −0.9 | 60 | 1 | 33 | 13 | 21 | 3.98 | +1.20 | .76 | 0 | 13 | 12 | 6 | 13 | nw. | State Hospital. |
| Summit | Placer | 7,017 | 47 | 26.4 | −4.1 | 44 | 28 | 10 | †5 | 20 | 11.70 | +4.41 | 2.00 | 110.0 | 14 | 7 | 9 | 15 | e. | Southern Pacific Co. |
| Tahoe | Placer | 6,230 | 6 | 28.4 | ..... | 52 | 28 | 4 | 12 | 38 | 7.70 | ..... | 2.09 | 59.0 | 15 | 8 | 8 | 15 | w. | A. L. Smith. |
| Ukiah | Mendocino | 620 | 27 | 44.8 | −0.3 | 63 | 27 | 27 | 5 | 29 | 13.64 | +6.99 | 1.85 | 0 | 18 | 9 | 3 | 19 | nw. | Dr. George McCowen. |
| Visalia | Tulare | 334 | 32 | 45.4 | −0.8 | 65 | 18 | 30 | †4 | 37 | 1.53 | +.05 | .29 | 0 | 11 | 5 | 22 | 4 | ..... | Tulare Cty. Bd. of Trade. |
| Watsonville | Santa Cruz | 23 | 24 | 52.2 | +1.3 | 72 | 27 | 32 | †4 | 30 | 6.15 | +2.71 | 1.16 | 0 | 13 | 6 | 14 | 11 | w. | Spreckels Sugar Co. |
| Weaverville | Trinity | 2,162 | 8 | 38.4 | ..... | 59 | 1 | 21 | 5 | 28 | 12.41 | +5.14 | 1.70 | 11.1 | 17 | 7 | 8 | 16 | .... | U. S. Forest Service. |
| Willows | Glenn | 136 | 41 | 45.3 | −1.9 | 61 | 26 | 31 | †12 | 23 | 5.17 | +2.08 | 1.70 | 0 | 15 | 10 | 5 | 16 | nw. | J. T. McPherson. |
| Yosemite | Mariposa | 3,960 | 16 | 34.8 | −1.2 | 52 | 1 | 14 | 21 | 29 | 5.21 | −.57 | 1.10 | 19.0 | 11 | 10 | 4 | 17 | sw. | Supt. National Park. |
| Yreka | Siskiyou | 2,625 | 31 | 36.4 | +1.6 | 55 | 1 | 17 | 22 | 24 | 4.43 | +1.37 | .88 | 9.0 | 20 | 0 | 9 | 22 | s. | U. S. Forest Service. |

## Daily Precipitation for December, 1920.

| Stations. | Watersheds. | Day of Month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| Antioch | San Joaquin | .25 | | | | | | .55 | .18 | .58 | | .18 | | | | | | | .25 | | .35 | .20 | | .58 | .40 | | | | | | .12 | | 3.64 |
| Atascadero | Coast | | .18 | | | | | .52 | .08 | .02 | .28 | .10 | .01 | | | | | .52 | .01 | .62 | | | .05 | .03 | .02 | | | | | | | | 2.44 |
| Bakersfield | San Joaquin | | .18 | | | | | T. | T. | .07 | | .06 | | | | | | | | .29 | | T. | | | .10 | | | | | | | .06 | .76 |
| Barstow | Desert | | | | | | | | | | | | | | | | | | | .18 | | | | | | | | | | | | | .18 |
| Berkeley | Coast | .28 | .43 | T. | .19 | | .62 | .37 | .34 | .63 | .02 | .76 | | | | | | .02 | .32 | .80 | | .37 | | .74 | .55 | | | | | | .53 | | 6.97 |
| Blue Canon ‖ | Sacramento | | 2.20 | | .74 | | .61 | * | 1.26 | * | 1.82 | 2.00 | .48 | | | | | | * | 2.41 | .94 | | .69 | | 1.46 | .42 | | | | | .73 | .83 | 16.59 |
| Blythe | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Bonita ‖ | Coast | | .06 | | | | | | .02 | | | | .10 | | | | | | | | .23 | | | | | .08 | | | | | | | .49 |
| Branscomb | ....do | 4.40 | .46 | | .91 | | .94 | .57 | 1.00 | 1.74 | 1.13 | 3.08 | | .33 | .03 | | | .05 | 1.04 | 1.04 | | 2.25 | .20 | 2.26 | .27 | | | | | .25 | 1.07 | | 23.02 |
| Brawley | Imperial Valley | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | T. |
| Calexico ‖ | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Chico | Sacramento | .28 | .70 | | .30 | | | .90 | .30 | .56 | | .29 | | | | | | | .63 | 1.93 | | .25 | .09 | .54 | .30 | | | | | | .55 | .05 | 7.67 |
| Chula Vista ‖ | Coast | | .02 | | | | | T. | T. | | | .09 | | | | | | | | .22 | | | | | .08 | | | | | | | | .41 |
| Claremont ‖ | ....do | | .16 | .15 | | | | .01 | .11 | | T. | | | | | | | | | .02 | .81 | | | | | | | | | | | | 1.26 |
| Cloverdale | ....do | .74 | .57 | | .28 | | .54 | .62 | .48 | 1.51 | .17 | .80 | | | | | T. | .03 | 1.03 | 1.61 | | .78 | .12 | .99 | .34 | .02 | | | | T. | .70 | | 11.30 |
| Colfax ‖ | Sacramento | 1.58 | .15 | | .47 | | | .58 | .78 | 1.04 | .82 | 1.42 | | | | | | | .41 | 1.50 | .61 | .10 | | | | | | | | | 1.16 | | 10.62 |
| Colusa ‖ | ....do | .03 | .82 | | .16 | | | .72 | .07 | | .47 | .21 | | | | | | .01 | .14 | 1.51 | .30 | | .22 | .01 | .57 | | | | | .02 | .22 | | 5.48 |
| Corona | Coast | | | .08 | | | | | .10 | | .01 | | .06 | | | | | | | | .42 | | | | | T. | | | | | | | .67 |
| Crescent City | ....do | 1.00 | 1.28 | .04 | 1.90 | | .78 | .83 | 2.00 | 1.50 | 2.40 | T. | .93 | | | | T | T. | 1.20 | | 1.40 | | .25 | .91 | .36 | .22 | | | .70 | 2.00 | 1.50 | | 21.20 |
| Davis | Sacramento | | .65 | | .03 | | | .50 | .28 | .30 | .04 | .50 | | | | | | | .13 | 1.00 | | .10 | .08 | .30 | .27 | | | | | | .21 | | 4.39 |
| Dodgeland ‖ | ....do | .12 | .51 | | .20 | | | .88 | .15 | T. | .50 | .20 | | | | | | T. | .27 | 1.85 | .39 | .02 | .16 | T. | .76 | | | | | | .28 | .01 | 6.30 |
| Durham | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| El Cajon | Coast | | .08 | | | | | T. | | | | | .12 | | | | | | | .39 | .05 | | | | | .05 | | | | | | | .69 |
| Elsinore ‖ | ....do | | | | | | | .08 | | | | | .04 | | | | | | | .30 | | | | | | | | | | | | | .42 |
| Escondido | ....do | | | .12 | | | | | .05 | | | | .25 | | | | | | | | .70 | | | | | .05 | | | | | | | 1.17 |
| EUREKA*** | ....do | .71 | .45 | .96 | .02 | | .81 | .54 | .07 | 1.16 | 1.32 | .60 | .01 | .26 | | | | .06 | .06 | .14 | | .95 | .02 | .32 | .22 | .02 | | | .53 | .72 | .94 | | 10.89 |
| Folsom ‖ | Sacramento | T. | .84 | | .33 | | | .62 | .64 | T. | .53 | .82 | .12 | | | | | | .12 | .85 | .23 | | | .28 | | .83 | | | | | .18 | .28 | 6.67 |
| Fontana | Coast | | .32 | | | | | .17 | .01 | | | .08 | .27 | | | | | | | .75 | | | | | | | | | | | | | 1.60 |
| Fort Bidwell | Mountain Lakes | | .14 | | .16 | | | .24 | | | .26 | .18 | | | | | | | | .70 | | | | .16 | .22 | | | | | .55 | | | 2.61 |
| FRESNO*** | San Joaquin | | .24 | | T. | | | .13 | .01 | .22 | | .14 | | | | | T. | | .02 | .10 | | .03 | .02 | .02 | .10 | | | | | | .03 | .01 | 1.07 |
| Grass Valley | Sacramento | .55 | 1.65 | | .67 | | | .61 | .97 | .40 | .86 | 2.31 | | | | | | | 1.67 | 1.93 | | .08 | .89 | .18 | .92 | | | | | | 1.10 | .12 | 14.41 |
| Greenland Ranch | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Hanford ‖ | San Joaquin | .08 | | | | | | .02 | | .19 | .02 | .08 | | | | | .04 | | .20 | .10 | | .04 | | .04 | | | | | | .04 | T. | .85 |
| Healdsburg ‖ | Coast | | .97 | | .32 | | | 1.25 | .34 | | 2.91 | .54 | .05 | | | | | | 1.04 | 2.12 | | .04 | .57 | .13 | 1.22 | | | 1.77 | | | | | 12.37 |
| Hollister | ....do | .03 | .42 | | .06 | | | .30 | .32 | .02 | .40 | .04 | .05 | | | | | T. | T. | .52 | .08 | | .26 | | .28 | .05 | | | | | | .07 | 2.90 |
| INDEPENDENCE*** | Owens | | .22 | | | | | | | | .04 | .02 | | | | | | | T. | .04 | | | | | | | | | | | | | .32 |
| Indio | Coachella Val | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Inskip | Sacramento | 2.25 | 1.46 | | .95 | | | .86 | 1.46 | 2.10 | 1.30 | 1.53 | | | | | | | 1.84 | 4.14 | | .47 | | .80 | .67 | | | | | | 1.23 | | 21.06 |
| Kennett | ...do | 1.80 | 1.64 | .50 | | | | | | .59 | 1.14 | 2.35 | .89 | 1.95 | | | | | 1.49 | 2.09 | | | .58 | | .90 | | | | | .16 | .96 | | 17.04 |
| La Porte | ....do | 1.30 | 1.39 | | .58 | | | .47 | .74 | 1.02 | 1.00 | 2.42 | | | | | | | 1.49 | 2.22 | | .31 | .18 | .19 | .94 | .09 | | | | | .07 | | 14.41 |
| Lemon Cove | San Joaquin | | .56 | | .01 | | | .06 | .02 | | .25 | .18 | | | | | | | .01 | .73 | .26 | T. | .10 | | .28 | | | | | | T. | | 2.46 |
| Lick Observatory | Coast | .91 | .29 | | .08 | | .18 | .33 | .88 | .44 | | .85 | | | | | | | .22 | 1.05 | | .59 | .04 | 1.12 | .81 | | | | | .54 | | 8.33 |
| Lindsay | San Joaquin | | .46 | | | | | .02 | .08 | .01 | .25 | | .06 | | | | | | | .17 | .17 | | .06 | | .04 | .10 | | | | | | .07 | 1.49 |
| Lone Pine | Owens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOS ANGELES*** | Coast | | .07 | | | | | .19 | | | .04 | .09 | | | | | | | | .59 | | | | | .03 | | | | | | | | 1.01 |
| McCloud | Sacramento | 1.60 | .45 | | .55 | T. | .45 | .40 | 1.80 | .41 | 1.23 | | | | | | T. | | 1.11 | 1.10 | | .25 | | .23 | | | | | 28 | | | 9.86 |
| Marysville ‖ | ....do | .85 | | .30 | | | .54 | .30 | | .50 | .50 | | | | | | | .10 | | 1.00 | .41 | .27 | | .68 | | | | | .49 | .10 | | 6.04 |
| Mecca | Coachella Val | | | | | | | | | | | | | | | | | | | 1.03 | | | | | | | | | | | | | 1.03 |
| Merced ‖ | San Joaquin | | .51 | | .05 | | | .14 | .18 | .03 | .28 | .11 | .16 | | | | | | | .34 | .02 | | .20 | | .40 | .02 | | | | | | .18 | 2.62 |
| MT. TAMALPAIS*** | Coast | .59 | .09 | .12 | .07 | | .50 | .24 | .40 | .46 | .26 | .91 | | | | | | .04 | .05 | .60 | .46 | | .37 | .03 | 1.01 | .11 | | | | .01 | .03 | .53 | | 6.88 |
| Mount Wilson | ....do | | .17 | | | | | .23 | | | .04 | .02 | .17 | | | | | | | 1.10 | | | | | | | | | | | | | 1.73 |
| Napa | ....do | .18 | .94 | | .08 | | | .38 | .46 | .30 | .09 | .68 | | | | | | | | .92 | | .33 | .07 | .36 | .64 | | | | | | .42 | | 6.19 |
| Needles | Colorado | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | T. |
| Nevada City | Sacramento | .65 | 1.45 | | .65 | | | .56 | .80 | .81 | .56 | 2.11 | | | | | | | 1.55 | 2.05 | | .12 | .36 | .29 | .44 | | | | | | .89 | .05 | 18.34 |
| Newman | San Joaquin | | .32 | | .03 | | | .30 | .06 | | .34 | .04 | | | | | | | .10 | | | | .59 | | .41 | | | | | | | .07 | 2.26 |
| Oakdale (near) ‖ | ....do | T. | .35 | | .09 | | | .31 | .33 | .03 | .28 | .22 | .28 | | | | * | T. | T. | .36 | .18 | | .22 | | .57 | .04 | | | | | | .20 | 3.46 |
| Oakland | Coast | .13 | .49 | | .22 | | .13 | .53 | .42 | .41 | .03 | 1.08 | | | | | | .02 | .35 | .60 | | .25 | .09 | .64 | 1.16 | | | | | | .85 | | 7.40 |
| Ojai | ....do | | | | | | | .05 | | | .15 | | | | | | | | | .75 | | | | .02 | | | | | | | | .03 | 1.00 |
| Orland ‖ | Sacramento | .17 | .17 | | .10 | | | .62 | .09 | .56 | | .10 | | | | | | | .20 | 1.49 | | .17 | .06 | .51 | .10 | | | | | | .14 | | 4.48 |
| Oroville (near) | ....do | .10 | 1.33 | | .33 | | | .90 | .45 | | .56 | .50 | | | | | | | .25 | 2.16 | .52 | | .36 | | .90 | | | | | | .78 | .25 | 9.39 |
| Pasadena | Coast | | .13 | | | | | .33 | | | T. | .04 | .02 | | | | | | | .93 | | | | | .01 | | | | | | | | 1.46 |
| Paso Robles—1 ‖ | ....do | | .17 | | .01 | | | .23 | .02 | .01 | .52 | .02 | .01 | | | | | .47 | .02 | .42 | | | | T. | .04 | .01 | | | | | | | 1.95 |
| Petaluma | ....do | .30 | 1.39 | | .16 | | .26 | .44 | .36 | .48 | .83 | | | | | | | .02 | .43 | 1.06 | | .33 | .10 | .51 | .75 | | | | | | .61 | | 8.03 |
| Placerville | Sacramento | .40 | 1.21 | | .30 | | | .67 | .75 | .23 | .40 | 1.80 | | | | | T. | | .53 | 1.23 | .27 | .12 | .35 | .12 | .44 | | | | | | .93 | .10 | 9.85 |
| POINT REYES*** | Coast | .17 | | .11 | .01 | | .52 | .06 | .02 | .40 | .03 | .12 | | | | | .01 | .06 | .68 | .42 | | .35 | | 2.02 | .01 | | | | | .01 | .64 | | 5.64 |
| Pomona ‖ | ....do | | | .24 | | | | | .27 | | | | .12 | | | | | | | .02 | .78 | | | | | .01 | | | | | | | 1.44 |
| Porterville | San Joaquin | | .41 | | | | | .11 | | .24 | | .01 | | | | | | | | .44 | | .03 | | | | | | | | | | .04 | 1.28 |
| Portola | Sacramento | .50 | | .60 | | | .20 | .20 | | .60 | .40 | | | | | | | | .10 | .30 | .20 | | .20 | | .03 | | | | | .05 | | | 3.38 |
| RED BLUFF*** | ....do | .49 | | .07 | .26 | | .26 | .32 | .16 | .71 | .10 | .11 | | | | | T. | | .18 | .51 | 1.07 | | .39 | .01 | .90 | .14 | | | | .03 | T. | .26 | | 5.97 |
| Redding | ....do | 1.29 | .04 | | .37 | | .12 | .47 | .90 | 1.32 | 1.01 | 1.39 | | | | | | | .06 | 1.16 | 1.09 | | .51 | | .80 | .17 | | | | T. | .18 | .52 | | 11.40 |
| Redlands | Coast | | .20 | | | | | .11 | | | | T | .32 | | | | | | | .44 | | | | | | | | | | | | | 1.07 |
| Riverside ‖ | ....do | | .12 | | | | | .09 | | | | .14 | | | | | | | | .39 | | | | | .03 | | | | | | | | .77 |
| Rocklin ‖ | Sacramento | .08 | 1.00 | | .30 | | | .51 | .40 | | .65 | .75 | | | | | | | | .35 | .90 | .20 | | .25 | | .40 | | | | | | .15 | .43 | 6.37 |
| Rohnerville | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SACRAMENTO*** | Sacramento | .62 | | | .08 | | .22 | .43 | .28 | .38 | .06 | .20 | | | | | | T. | .33 | .68 | | .21 | .03 | .49 | .07 | | | | | .01 | .23 | | 4.32 |
| St. Helena ‖ | Coast | .15 | .63 | | .13 | | | .73 | .37 | 1.27 | 1.00 | .02 | | | | | | | .28 | 2.15 | | | .65 | | 1.10 | | | | | | .49 | .05 | 10.02 |
| Salinas | ....do | .26 | .25 | | .12 | | | .35 | .30 | | .44 | .20 | | | | | | .16 | .04 | .28 | | .11 | .10 | .10 | .67 | | | | | | .30 | | 3.68 |
| San Bernardino | ....do | | .21 | | | | | | .09 | | | .03 | .35 | | | | | | | .65 | .08 | | | | | | | | | | | | 1.41 |
| SAN DIEGO*** | ....do | | .02 | | | | | T. | .02 | | | .07 | | | | | | | | .33 | | | | | | 10 | T. | | | | | T | 0.54 |
| SAN FRANCISCO*** | ....do | .39 | | .11 | .09 | | .65 | .62 | .02 | .36 | .04 | .67 | | | | | T. | .02 | .63 | .81 | | .45 | T. | 1.77 | .25 | | | | T. | | .60 | | 7.48 |
| San Jacinto | ....do | | .17 | | | | | .06 | | | | .03 | .08 | | | | | | | .29 | | | | | | | | | | | | | .63 |
| SAN JOSE*** | ....do | .33 | .26 | | .07 | | .45 | .08 | .23 | .22 | | .18 | | | | | .01 | | .04 | .36 | | .15 | .02 | .74 | .34 | | | | | | .10 | | 3.58 |
| SAN LUIS OBISPO*** | ....do | | .30 | | | | .29 | .16 | .10 | 1.10 | .12 | .25 | | | | | .14 | .07 | .04 | 1.01 | | T. | .02 | T. | .25 | | | | | | | | 3.85 |
| Santa Ana ‖ | ....do | | | .26 | | | | | .28 | | | | .10 | | | | | | | | .56 | | | | | .02 | | | | | | | 1.22 |
| Santa Barbara | ....do | | .03 | | | | | .25 | | | .35 | .05 | | | | | | | | .78 | | | | | | .05 | | | | | | | 1.51 |
| Santa Cruz | ....do | .60 | | .10 | | | .57 | .83 | | .57 | .45 | | | | | | .40 | .15 | 1.25 | | | .55 | | 1.60 | | | | | | .40 | | 7.47 |
| Santa Rosa ‖ | ....do | 1.05 | | .15 | | | .95 | .35 | | 1.00 | .60 | | | | | | | .35 | | 1.60 | | .55 | .10 | 1.25 | | | | | | .55 | .15 | 8.65 |
| Seriterre | Sacramento | .25 | 1.34 | | .42 | | | .79 | .54 | .35 | .46 | .64 | | | | | | | .64 | 1.95 | | .22 | .12 | .16 | .62 | | | | | | .90 | .10 | 9.50 |
| Sisson | ....do | .95 | .40 | | .40 | | T. | .40 | | .40 | .10 | .95 | | .10 | | | T. | T. | .90 | .60 | | .20 | | .10 | | | | | | .30 | | 5.80 |
| Spreckels ‖ | Coast | .11 | .26 | | .09 | | | .32 | .10 | .01 | .46 | .12 | .06 | | | | | | .26 | .01 | .28 | .11 | | .17 | | .88 | .03 | | | | | .25 | 3.52 |
| Squirrel Inn | ....do | | .34 | | | | | .26 | | | | | .33 | | | | | | | 1.18 | | | | | | | | | | | | | 2.11 |
| Stockton ‖ | San Joaquin | .02 | .31 | | .06 | | | .18 | .38 | | .68 | .73 | | | | | | | .19 | .30 | | | | .20 | | .76 | | | | | .09 | .08 | 3 98 |
| Summit | Sacramento | .30 | 2.00 | | 1.20 | | | .80 | .80 | .30 | 1.00 | 1.00 | | | | | | | .20 | 1.70 | | | .40 | .40 | .90 | | | | | | .70 | | 11.70 |
| Tahoe ‖ | Mountain Lakes | .03 | | | 1.33 | | | .03 | .49 | .01 | .86 | 2.09 | .12 | | | | | | | .92 | .08 | .06 | .29 | T. | .42 | ‡ | | | | | .66 | .31 | 7.70 |
| Ukiah | Coast | 1.20 | 1.05 | | .45 | | .27 | .50 | .53 | 1.16 | .16 | 1.80 | | | | | T. | .08 | .37 | 1.73 | | 1.85 | .20 | 1.25 | .50 | | | | | | .03 | .56 | 13.64 |
| Visalia | San Joaquin | .26 | | | | | .01 | .21 | | .20 | .02 | .16 | | | | | | | | .29 | .03 | .05 | | .12 | | | | | | | .18 | | 1.53 |
| Watsonville | Coast | .25 | .51 | | .10 | | | .56 | .98 | | .61 | .26 | | | | | | | .26 | .07 | .82 | | | .32 | 1.16 | | | | | | | .25 | 6.15 |
| Weaverville | ....do | 1.00 | .44 | | .72 | | .30 | .57 | .77 | 1.25 | .37 | 1.70 | | .25 | | | | | | .95 | .70 | | .50 | | .90 | .42 | | | | | .75 | .82 | 12.41 |
| Willows ‖ | Sacramento | .46 | T. | | .12 | | .68 | .05 | .14 | .56 | .11 | | | | | | T. | .21 | 1.70 | .11 | | .22 | .05 | .58 | | | | | | .16 | .02 | 5.17 |
| Yosemite | San Joaquin | T. | 1.10 | | T. | T. | T. | .10 | .30 | | .20 | .60 | T. | | | | | | | .51 | .40 | * | * | .60 | * | 1.00 | | | | | | .40 | | 5.21 |
| Yreka | Klamath | .21 | .05 | | .45 | | | .21 | .30 | .33 | .01 | .88 | | .25 | .02 | | | .02 | | .16 | .22 | .01 | .37 | .04 | .14 | .03 | | | | | .17 | .56 | | 4.43 |

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. ‡ Separate dates of fall not recorded. T., trace, or less than 0.01 inch.

## Daily Temperature for December, 1920.

| Stations. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bakersfield | Maximum | 68 | 63 | 64 | 53 | 51 | 69 | 65 | 63 | 66 | 62 | 59 | 60 | 58 | 57 | 68 | 65 | 70 | 63 | 58 | 54 | 57 | 58 | 60 | 61 | 54 | 56 | 61 | 66 | 49 | 64 | 53 | 60.5 |
| | Minimum | 43 | 43 | 35 | 35 | 29 | 31 | 46 | 35 | 34 | 42 | 37 | 35 | 28 | 29 | 32 | 45 | 41 | 35 | 43 | 39 | 30 | 45 | 45 | 45 | 44 | 34 | 33 | 33 | 33 | 43 | 43 | 37.6 |
| Calexico | Maximum | 74 | 78 | 73 | 74 | 69 | 68 | 70 | 71 | 70 | 71 | 70 | 64 | 67 | 71 | 70 | 69 | 73 | 75 | 74 | 64 | 66 | 66 | 66 | 65 | 68 | 68 | 68 | 73 | 70 | 74 | 74 | 70.1 |
| | Minimum | 42 | 34 | 41 | 33 | 38 | 35 | 30 | 36 | 34 | 35 | 35 | 39 | 33 | 29 | 34 | 35 | 40 | 36 | 34 | 49 | 35 | 30 | 32 | 35 | 36 | 36 | 39 | 34 | 34 | 36 | 35 | 35.6 |
| Chico | Maximum | 56 | 61 | 56 | 57 | 55 | 51 | 51 | 53 | 50 | 52 | 57 | 51 | 49 | 57 | 53 | 55 | 55 | 51 | 51 | 52 | 42 | 47 | 47 | 56 | 54 | 58 | 57 | 52 | 50 | 48 | 55 | 52.9 |
| | Minimum | 49 | 42 | 33 | 38 | 30 | 35 | 40 | 43 | 45 | 45 | 43 | 30 | 32 | 35 | 30 | 35 | 36 | 48 | 48 | 30 | 33 | 37 | 43 | 45 | 35 | 34 | 35 | 37 | 43 | 46 | 38 | 38.5 |
| Escondido | Maximum | 73 | 58 | 72 | 67 | 70 | 73 | 57 | 61 | 65 | 64 | 60 | 62 | 70 | 79 | 77 | 75 | 70 | 67 | 54 | 55 | 60 | 61 | 65 | 59 | 63 | 69 | 71 | 73 | 68 | 60 | 64 | 65.9 |
| | Minimum | 45 | 44 | 36 | 34 | 33 | 34 | 36 | 39 | 39 | 39 | 41 | 41 | 36 | 35 | 37 | 42 | 38 | 35 | 39 | 35 | 31 | 34 | 36 | 39 | 49 | 41 | 44 | 39 | 39 | 41 | 37 | 38.3 |
| Eureka | Maximum | 54 | 53 | 56 | 50 | 51 | 54 | 50 | 52 | 52 | 54 | 52 | 50 | 50 | 56 | 67 | 63 | 60 | 56 | 50 | 50 | 52 | 54 | 55 | 52 | 52 | 52 | 55 | 56 | 61 | 56 | 50 | 54.1 |
| | Minimum | 46 | 43 | 41 | 38 | 35 | 42 | 41 | 45 | 43 | 46 | 39 | 36 | 40 | 38 | 40 | 50 | 52 | 45 | 39 | 36 | 42 | 49 | 48 | 46 | 42 | 43 | 40 | 47 | 52 | 42 | 37 | 42.7 |
| Fresno | Maximum | 62 | 58 | 58 | 54 | 52 | 62 | 52 | 54 | 58 | 60 | 53 | 52 | 53 | 55 | 57 | 58 | 64 | 55 | 54 | 51 | 48 | 48 | 54 | 55 | 48 | 54 | 60 | 61 | 50 | 50 | 52 | 54.9 |
| | Minimum | 46 | 44 | 36 | 38 | 32 | 35 | 41 | 39 | 36 | 45 | 42 | 36 | 36 | 34 | 38 | 43 | 47 | 44 | 45 | 38 | 34 | 43 | 46 | 44 | 38 | 40 | 38 | 40 | 39 | 44 | 45 | 40.1 |
| Independence | Maximum | 63 | 53 | 51 | 55 | 56 | 50 | 53 | 51 | 52 | 53 | 54 | 48 | 49 | 55 | 47 | 44 | 51 | 46 | 47 | 43 | 51 | 50 | 48 | 48 | 48 | 65 | 69 | 58 | 60 | 57 | 64 | 52.9 |
| | Minimum | 35 | 35 | 29 | 24 | 28 | 33 | 28 | 25 | 25 | 29 | 33 | 25 | 21 | 24 | 26 | 25 | 24 | 22 | 24 | 31 | 27 | 24 | 26 | 30 | 29 | 27 | 34 | 32 | 30 | 28 | 26 | 27.4 |
| Los Angeles | Maximum | 69 | 61 | 69 | 65 | 65 | 70 | 56 | 61 | 64 | 63 | 57 | 64 | 67 | 75 | 73 | 73 | 65 | 62 | 58 | 56 | 59 | 59 | 62 | 55 | 62 | 67 | 70 | 65 | 58 | 61 | 63.9 |
| | Minimum | 52 | 52 | 49 | 48 | 48 | 47 | 44 | 43 | 46 | 48 | 50 | 47 | 42 | 51 | 57 | 54 | 49 | 47 | 47 | 46 | 41 | 44 | 40 | 46 | 47 | 47 | 50 | 50 | 46 | 46 | 47 | 47.6 |
| Merced | Maximum | 62 | 57 | 58 | 54 | 52 | 61 | 46 | 52 | 57 | 60 | 51 | 53 | 53 | 51 | 51 | 54 | 61 | 54 | 54 | 51 | 47 | 48 | 52 | 55 | 51 | 52 | 57 | 58 | 51 | 49 | 54 | 53.7 |
| | Minimum | 37 | 44 | 34 | 45 | 30 | 32 | 38 | 37 | 35 | 38 | 49 | 41 | 31 | 31 | 34 | 39 | 41 | 47 | 46 | 35 | 28 | 42 | 45 | 50 | 38 | 37 | 34 | 35 | 40 | 45 | 47 | 38.9 |
| Mount Tamalpais | Maximum | 49 | 44 | 49 | 42 | 46 | 45 | 43 | 45 | 45 | 47 | 48 | 44 | 46 | 45 | 56 | 51 | 45 | 47 | 47 | 47 | 43 | 40 | 51 | 49 | 44 | 54 | 56 | 56 | 55 | 52 | 48 | 47.7 |
| | Minimum | 42 | 39 | 40 | 36 | 36 | 38 | 35 | 38 | 32 | 42 | 35 | 34 | 38 | 38 | 39 | 43 | 41 | 41 | 36 | 35 | 34 | 34 | 38 | 38 | 37 | 41 | 46 | 42 | 43 | 38 | 37 | 38.3 |
| Oakland | Maximum | 56 | 55 | 54 | 50 | 51 | 54 | 52 | 52 | 51 | 54 | 52 | 50 | 50 | 54 | 51 | 52 | 54 | 54 | 54 | 50 | 46 | 44 | 50 | 54 | 51 | 50 | 57 | 54 | 57 | 56 | 52 | 52.3 |
| | Minimum | 51 | 47 | 43 | 45 | 40 | 42 | 44 | 46 | 43 | 47 | 45 | 38 | 39 | 44 | 44 | 47 | 50 | 49 | 46 | 42 | 42 | 40 | 42 | 48 | 40 | 41 | 46 | 45 | 48 | 52 | 42 | 44.5 |
| Orland | Maximum | 56 | 57 | 53 | 54 | 54 | 45 | 50 | 53 | 48 | 53 | 56 | 56 | 49 | 56 | 50 | 52 | 50 | 53 | 51 | 52 | 44 | 48 | 48 | 55 | 53 | 60 | 54 | 52 | 55 | 50 | 55 | 52.3 |
| | Minimum | 43 | 40 | 40 | 39 | 36 | 35 | 36 | 38 | 43 | 42 | 44 | 32 | 32 | 36 | 35 | 34 | 38 | 40 | 40 | 31 | 34 | 36 | 38 | 40 | 36 | 38 | 37 | 38 | 41 | 42 | 37 | 37.8 |
| Oroville | Maximum | 64 | 56 | 60 | 57 | 55 | 56 | 53 | 50 | 52 | 50 | 53 | 58 | 51 | 52 | 57 | 53 | 55 | 56 | 52 | 50 | 51 | 43 | 49 | 51 | 57 | 53 | 57 | 59 | 53 | 50 | 52 | 53.7 |
| | Minimum | 46 | 41 | 33 | 34 | 31 | 34 | 35 | 41 | 43 | 44 | 47 | 34 | 31 | 30 | 32 | 33 | 34 | 35 | 46 | 33 | 34 | 36 | 35 | 42 | 38 | 34 | 35 | 38 | 39 | 42 | 41 | 37.1 |
| Paso Robles | Maximum | 58 | 59 | 61 | 58 | 55 | 63 | 56 | 58 | 55 | 60 | 59 | 52 | 56 | 54 | 55 | 62 | 60 | 54 | 55 | 54 | 50 | 60 | 55 | 64 | 55 | 55 | 62 | 66 | 60 | 59 | 56 | 57.6 |
| | Minimum | 45 | 44 | 33 | 35 | 27 | 27 | 38 | 33 | 33 | 40 | 38 | 35 | 29 | 32 | 33 | 35 | 40 | 40 | 40 | 31 | 30 | 30 | 40 | 44 | 36 | 32 | 34 | 35 | 35 | 35 | 34 | 35.3 |
| Point Reyes | Maximum | 56 | 54 | 56 | 51 | 55 | 50 | 50 | 51 | 52 | 57 | 52 | 51 | 55 | 60 | 59 | 58 | 54 | 54 | 52 | 50 | 48 | 48 | 50 | 54 | 49 | 52 | 57 | 54 | 52 | 54 | 52 | 53.1 |
| | Minimum | 51 | 48 | 49 | 46 | 42 | 47 | 44 | 47 | 47 | 50 | 43 | 43 | 45 | 45 | 51 | 51 | 49 | 49 | 42 | 43 | 43 | 42 | 44 | 49 | 45 | 44 | 48 | 50 | 48 | 49 | 47 | 46.5 |
| Pomona | Maximum | 72 | 58 | 67 | 66 | 64 | 67 | 52 | 58 | 63 | 58 | 54 | 60 | 65 | 74 | 68 | 71 | 66 | 63 | 54 | 56 | 58 | 57 | 62 | 54 | 61 | 65 | 69 | 73 | 67 | 59 | 65 | 62.7 |
| | Minimum | 35 | 39 | 33 | 30 | 28 | 27 | 29 | 32 | 32 | 38 | 42 | 35 | 27 | 30 | 36 | 38 | 32 | 30 | 40 | 31 | 27 | 29 | 30 | 32 | 45 | 32 | 34 | 32 | 33 | 31 | 30 | 33.1 |
| Porterville | Maximum | 68 | 65 | 60 | 59 | 59 | 54 | 66 | 66 | 59 | 62 | 55 | 55 | 53 | 53 | 53 | 60 | 57 | 67 | 62 | 57 | 51 | 51 | 50 | 58 | 57 | 56 | 54 | 60 | 50 | 49 | 51 | 57.3 |
| | Minimum | 38 | 38 | 35 | 35 | 35 | 31 | 37 | 40 | 34 | 35 | 41 | 30 | 29 | 30 | 33 | 41 | 37 | 37 | 37 | 37 | 30 | 42 | 44 | 43 | 45 | 42 | 33 | 34 | 34 | 39 | 45 | 36.8 |
| Red Bluff | Maximum | 53 | 57 | 52 | 54 | 51 | 43 | 49 | 52 | 48 | 51 | 54 | 54 | 47 | 60 | 54 | 52 | 49 | 49 | 38 | 51 | 38 | 46 | 40 | 52 | 53 | 63 | 55 | 51 | 54 | 49 | 55 | 51.1 |
| | Minimum | 49 | 41 | 36 | 38 | 36 | 34 | 37 | 43 | 44 | 44 | 39 | 32 | 33 | 39 | 34 | 40 | 40 | 45 | 37 | 32 | 32 | 33 | 37 | 37 | 36 | 39 | 41 | 41 | 45 | 42 | 38 | 38.5 |
| Redlands | Maximum | 79 | 55 | 67 | 68 | 65 | 67 | 51 | 56 | 61 | 55 | 52 | 60 | 67 | 71 | 66 | 70 | 65 | 61 | 53 | 54 | 56 | 57 | 62 | 55 | 62 | 67 | 68 | 72 | 68 | 66 | 70 | 62.8 |
| | Minimum | 40 | 38 | 34 | 34 | 32 | 30 | 31 | 31 | 32 | 38 | 38 | 42 | 30 | 35 | 34 | 38 | 37 | 34 | 40 | 32 | 30 | 31 | 34 | 35 | 41 | 37 | 38 | 39 | 37 | 36 | 35.4 |
| Sacramento | Maximum | 58 | 57 | 54 | 53 | 49 | 45 | 49 | 51 | 47 | 53 | 53 | 50 | 53 | 51 | 47 | 50 | 52 | 51 | 52 | 51 | 43 | 45 | 48 | 54 | 51 | 49 | 56 | 50 | 48 | 50 | 54 | 50.8 |
| | Minimum | 49 | 44 | 36 | 41 | 37 | 38 | 40 | 41 | 39 | 43 | 41 | 36 | 35 | 39 | 38 | 42 | 37 | 47 | 40 | 34 | 35 | 40 | 43 | 44 | 38 | 37 | 41 | 37 | 44 | 46 | 42 | 40.1 |
| San Bernardino | Maximum | 74 | 57 | 71 | 68 | 65 | 71 | 52 | 59 | 66 | 61 | 55 | 60 | 69 | 74 | 70 | 73 | 69 | 66 | 53 | 57 | 60 | 60 | 66 | 58 | 66 | 71 | 73 | 77 | 72 | 69 | 72 | 65.6 |
| | Minimum | 39 | 39 | 34 | 31 | 39 | 29 | 28 | 34 | 30 | 41 | 43 | 44 | 28 | 29 | 33 | 37 | 35 | 32 | 40 | 33 | 27 | 30 | 32 | 33 | 40 | 33 | 39 | 35 | 37 | 34 | 37 | 34.7 |
| San Diego | Maximum | 65 | 61 | 63 | 64 | 64 | 67 | 59 | 60 | 60 | 63 | 62 | 62 | 64 | 67 | 72 | 69 | 65 | 63 | 57 | 56 | 60 | 60 | 60 | 59 | 63 | 63 | 66 | 71 | 61 | 58 | 56 | 62.6 |
| | Minimum | 52 | 53 | 46 | 46 | 42 | 46 | 47 | 46 | 47 | 47 | 49 | 46 | 42 | 47 | 51 | 54 | 48 | 47 | 49 | 45 | 40 | 43 | 45 | 47 | 51 | 47 | 46 | 46 | 45 | 50 | 46 | 47.0 |
| San Francisco | Maximum | 57 | 60 | 58 | 57 | 53 | 57 | 55 | 56 | 56 | 56 | 54 | 53 | 56 | 59 | 54 | 54 | 57 | 58 | 56 | 56 | 46 | 49 | 51 | 57 | 53 | 54 | 60 | 54 | 61 | 61 | 60 | 55.6 |
| | Minimum | 52 | 50 | 47 | 46 | 44 | 44 | 44 | 48 | 44 | 48 | 47 | 43 | 43 | 46 | 47 | 48 | 49 | 48 | 48 | 46 | 44 | 44 | 44 | 49 | 46 | 42 | 44 | 44 | 49 | 50 | 45 | 46.6 |
| San Jose | Maximum | 60 | 59 | 63 | 55 | 57 | 65 | 55 | 57 | 56 | 61 | 55 | 54 | 57 | 60 | 57 | 52 | 60 | 57 | 55 | 54 | 48 | 50 | 54 | 58 | 54 | 57 | 64 | 58 | 63 | 60 | 57 | 57.2 |
| | Minimum | 48 | 40 | 36 | 39 | 34 | 33 | 45 | 39 | 39 | 44 | 33 | 32 | 34 | 34 | 41 | 47 | 50 | 47 | 36 | 34 | 45 | 45 | 43 | 36 | 35 | 36 | 37 | 48 | 46 | 39 | 39.8 |
| San Luis Obispo | Maximum | 62 | 62 | 67 | 61 | 62 | 63 | 57 | 57 | 59 | 61 | 58 | 58 | 63 | 64 | 70 | 63 | 62 | 56 | 55 | 57 | 58 | 63 | 61 | 58 | 59 | 63 | 72 | 70 | 67 | 66 | 63 | 61.8 |
| | Miuimum | 47 | 48 | 42 | 40 | 39 | 31 | 40 | 39 | 36 | 46 | 45 | 41 | 40 | 43 | 39 | 45 | 50 | 50 | 41 | 33 | 41 | 46 | 44 | 49 | 41 | 40 | 40 | 39 | 47 | 43 | 53 | 42.5 |
| Santa Barbara | Maximum | 70 | 69 | 69 | 71 | 68 | 69 | 60 | 65 | 65 | 55 | 58 | 67 | 70 | 76 | 72 | 65 | 67 | 60 | 60 | 62 | 65 | 60 | 62 | 58 | 60 | 62 | 72 | 70 | 60 | 58 | 65 | 64.8 |
| | Minimum | 40 | 45 | 39 | 38 | 37 | 34 | 45 | 42 | 40 | 49 | 44 | 36 | 34 | 38 | 44 | 48 | 43 | 44 | 48 | 48 | 35 | 44 | 48 | 45 | 40 | 39 | 41 | 40 | 38 | 40 | 50 | 41.8 |
| Santa Rosa | Maximum | 57 | 59 | 59 | 54 | 54 | 52 | 54 | 55 | 51 | 58 | 56 | 55 | 59 | 58 | 54 | 59 | 59 | 59 | 54 | 56 | 45 | 49 | 49 | 55 | 58 | 61 | 51 | 52 | 60 | 63 | 65 | 55.8 |
| | Minimum | 51 | 38 | 34 | 37 | 34 | 34 | 41 | 42 | 48 | 46 | 49 | 24 | 22 | 38 | 34 | 42 | 40 | 40 | 47 | 34 | 40 | 44 | 43 | 45 | 37 | 36 | 26 | 46 | 47 | 42 | 34 | 39.2 |
| Stockton | Maximum | 60 | 58 | 57 | 54 | 53 | 55 | 51 | 54 | 53 | 58 | 52 | 52 | 52 | 52 | 49 | 48 | 57 | 54 | 54 | 52 | 46 | 47 | 55 | 56 | 53 | 54 | 58 | 51 | 51 | 51 | 55 | 53.3 |
| | Minimum | 42 | 45 | 36 | 40 | 35 | 35 | 39 | 42 | 40 | 42 | 45 | 35 | 33 | 35 | 34 | 38 | 36 | 37 | 45 | 38 | 35 | 39 | 43 | 46 | 39 | 35 | 39 | 36 | 38 | 45 | 41 | 39.0 |

## SUPPLEMENTAL PRECIPITATION TABLE.

| Stations. | Watersheds. | Precip., inches. | Stations. | Watersheds. | Precip., inches. | Stations. | Watersheds. | Precip., inches. | Stations. | Watersheds. | Precip., inches. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Abbotts | Coast | 2.69 | Dobbins (near) | Sacramento | 11.50 | Lathrop | San Joaquin | 2.76 | Represa | Sacramento | 7.31 |
| Aguanga | do | .37 | Downieville | do | 16.77 | La Verne | Coast | | Rio Vista | do | 4.82 |
| Angiola | San Joaquin | .92 | Dudley | San Joaquin | .57 | Le Grand | San Joaquin | 3.02 | Ruth | Coast | 17.00 |
| Antelope Valley | do | .53 | Dudleys | do | 7.48 | Livermore | Coast | 3.81 | St. John | Sacramento | 6.27 |
| Arrowhead Springs | Coast | 3.32 | East Park | Sacramento | 6.02 | Llano | do | .40 | San Miguel Island | Ocean | .73 |
| Auberry | San Joaquin | 3.53 | Edison | San Joaquin | 1.81 | Lompoc | do | 1.44 | San Pedro | Coast | 1.01 |
| Auburn | Sacramento | 11.58 | Electra | do | 6.92 | Los Alamos | do | 1.29 | Santa Ana River | do | 1.88 |
| Avalon | Ocean | 1.06 | Emigrant Gap | Sacramento | 8.77 | Los Gatos | do | 6.98 | Santa Clara | do | 3.80 |
| Azusa* | Coast | | Fairmont | Coast | .52 | Lytle Creek | do | 3.82 | Santa Maria | do | 1.24 |
| Bagdad | Desert | 0 | Firebaugh | San Joaquin | 1.05 | Madeline | Mountain Lakes | 2.81 | Santa Monica | do | 1.23 |
| Barrett Dam | Coast | 1.25 | Fordyce Dam | Sacramento | 11.06 | Maricopa | San Joaquin | .17 | Seven Oaks | do | 1.48 |
| Beaumont | do | 1.51 | Fort Bragg | Coast | 12.23 | Mariposa | do | 6.16 | Shield's Ranch | Walker | .72 |
| Beaumont (near) | do | 1.57 | Fort Ross | do | 14.98 | Markleeville | Carson | 2.34 | Shively | Coast | 19.80 |
| Bellota | San Joaquin | 4.75 | Friant | San Joaquin | 2.29 | Melones | San Joaquin | 5.47 | Sierraville | Mountain Lakes | 2.98 |
| Benson's Ferry | Sacramento | 3.98 | Georgetown | Sacramento | 14.21 | Merced Falls | do | 4.12 | Sonora | San Joaquin | 7.48 |
| Betteravia | Coast | 1.54 | Glacier Point | San Joaquin | 4.77 | Mesa Grande | Coast | 2.30 | Springville (near) | do | 6.12 |
| Big Bar | Sacramento | 11.10 | Glennville | do | 4.08 | Middlewater | San Joaquin | .29 | Standish | Mountain Lakes | 1.47 |
| Big Sur | Coast | 10.05 | Goffs | Desert | | Mill Creek—1 | do | 10.24 | Stanwood | Coast | |
| Bishop Creek | Owens | 1.00 | Gray Mountain | do | .25 | Mill Creek—2 | Coast | 1.79 | Sterling* | Desert | T. |
| Calaveras R. S | San Joaquin | 9.00 | Happy Camp | Klamath | 13.98 | Milo | San Joaquin | 5.16 | Storey | San Joaquin | 1.45 |
| Campbell | Coast | 4.15 | Hayfork | Coast | 11.33 | Milton (near) | do | 5.85 | Tamarack | Sacramento | 11.43 |
| Campo | do | .79 | Head Dam | Sacramento | 13.89 | Mokelumne Hill | do | 6.42 | Tejon Rancho | San Joaquin | 2.85 |
| Camptonville | San Joaquin | 17.15 | Helen Mine | Coast | 21.96 | Monroeville | Sacramento | 6.65 | Three Rivers | do | 3.62 |
| Canon Dam | Sacramento | 8.24 | Hetch Hetchy | San Joaquin | 5.42 | Montague | Klamath | 2.62 | Towle | Sacramento | |
| Cascada | San Joaquin | 3.77 | Hullville (near) | Coast | 19.13 | Nellie | Coast | 3.20 | Trona | Desert | .50 |
| Cedarville | Mountain Lakes | 1.99 | Huntington Lake | San Joaquin | 4.82 | Nicolaus | Sacramento | 4.97 | Truckee | Mountain Lakes | |
| Centerville Pwr. H. | Sacramento | 12.59 | Idria | do | 1.69 | North Bloomfield | do | 13.29 | Turlock | San Joaquin | 3.53 |
| Chester | do | 8.69 | Jenny Lind | do | 4.87 | North Fork | San Joaquin | 6.07 | Tustin (near) | Coast | .87 |
| China Flat | Coast | 19.28 | Jolon | Coast | 1.98 | Oak Grove | Coast | | Twin Lakes | Mountain Lakes | 11.27 |
| Churn Creek | Sacramento | 9.06 | Julian | do | 2.60 | Orleans | Klamath | 15.33 | Twin Valley | Sacramento | 14.17 |
| Clovis | San Joaquin | 2.02 | Kennedy Mine | San Joaquin | 6.87 | Ozena | Coast | 1.00 | Upper Mattole | Coast | 22.06 |
| Coalinga | do | .66 | Kentfield | Coast | 11.37 | Parkfield | do | 1.86 | Vacaville | Sacramento | 6.79 |
| Colgate | Sacramento | 11.08 | Kernville | San Joaquin | 1.90 | Paso Robles—2 | do | 2.18 | Walnut Creek | Coast | 5.57 |
| Crockett | Coast | 5.74 | King City* | Coast | 1.03 | Pattiway | San Joaquin | 1.14 | Warner Springs | do | .59 |
| Cuyamaca | do | 3.10 | Knights Landing | Sacramento | 4.57 | Peachland | Coast | 12.84 | Wasco | San Joaquin | .14 |
| Deer Creek | Sacramento | 17.59 | La Jolla Ind. Res | Coast | 1.48 | Piedra | San Joaquin | 2.20 | Wasioja | Coast | |
| Del Monte | Coast | 3.54 | Lake Eleanor | San Joaquin | 7.35 | Point Loma | Coast | .57 | West Branch | Sacramento | 18.87 |
| Denair | San Joaquin | 3.29 | Lakeport | Sacramento | 9.46 | Priest Valley | do | 2.98 | West Point | San Joaquin | 9.21 |
| De Sabla | Sacramento | 17.29 | Lake Spaulding | do | 14.07 | Quincy | Sacramento | 9.45 | Wrights | Coast | 23.47 |
| Dinuba | San Joaquin | 1.60 | Las Plumas | do | 13.25 | Reedley | San Joaquin | 1.78 | Yorba Linda | do | 1.08 |

Data obtained from 3-inch rain gage.

## SNOWFALL IN THE MOUNTAINS.

Light snow fell in the Sierra Nevada Mountains during September and October, 1920, and moderately heavy snow fell during November. At the close of November there was about 22 inches of snow on the ground at the 8,000-foot level, and deeper snow at greater altitudes.

During December heavy snow fell throughout the Sierra Nevada. About 100 inches of snow fell at the 7,000-foot level, and larger amounts fell at greater heights. Most of the precipitation in the higher mountains came in the form of snow. The month was cold, and temperatures below zero were common. As a result, there was little run-off from melting snow in the Sierras. At the close of the month the snow was well packed, and there was more snow on the ground than on any similar date since 1916. The greatest snowfall reported for the month was 125 inches at Tamarack, Alpine County, altitude 8,000 feet. The greatest amount of unmelted snow on the ground at the close of the month was 96 inches at Twin Lakes, Alpine County, altitude 7,970 feet.

The higher levels of the Coast Range of mountains were snow-covered on several occasions during December, and moderately heavy snow fell throughout the northern portion. Most of it melted before the close of the month.

Little snow fell in the mountains of southern California, and only scattered patches of snow covered the highest peaks at the close of the month. Precipitation was markedly deficient throughout the southern portion of the State, and the accumulated seasonal amount was less than half of the normal on January 1st, 1921.

A. H. P.

## COMPARATIVE SNOWFALL DATA FOR DECEMBER.

**(Amount on the Ground.)**

| | Fordyce Dam. | | | Summit. | | | Tamarack. | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1st. | 15th. | End of mo. | 1st. | 15th. | End of mo. | 1st. | 15th. | End of mo. |
| 1906 | 2 | 60 | 60 | 5 | 70 | 46 | 55 | 101 | 125 |
| 1907 | 0 | 30 | 72 | 0 | 42 | 87 | 0 | 39 | 74 |
| 1908 | 11 | 27 | 21 | 24 | 32 | 21 | 29 | 43 | 32 |
| 1909 | 2 | 25 | 13 | 2 | 24 | 45 | 26 | 52 | 65 |
| 1910 | 5 | 2 | 0 | 7 | 4 | 4 | 8 | 21 | 24 |
| 1911 | 4 | 1 | 44 | 1 | 2 | 56 | 3 | 5 | 45 |
| 1912 | 6 | 22 | 30 | T. | 14 | 19 | 3 | 29 | 42 |
| 1913 | 35 | 35 | 60 | 31 | 24 | 80 | 35 | 41 | 110 |
| 1914 | 8 | 40 | 31 | 12 | 46 | 26 | 10 | 31 | 27 |
| 1915 | 9 | 57 | 45 | 6 | 67 | 40 | 3 | 67 | 48 |
| 1916 | 15 | 42 | 74 | 14 | 16 | 77 | 7 | 32 | 86 |
| 1917 | 4 | 0 | 0 | 6 | 0 | 0 | 16 | 8 | 8 |
| 1918 | 17 | 23 | 23 | 20 | 17 | 16 | 17 | 27 | 32 |
| 1919 | 18 | 50 | 35 | 34 | 52 | 37 | 35 | 48 | 29 |
| 1920 | 13 | 55 | 54 | 18 | 66 | 67 | 29 | 83 | 85 |

T. means trace.

**Snowfall Data. [In inches.]**

| Watershed, County, Station. | Elevation, feet. | Total snowfall. | Compr'd with normal. | Am't on ground 15th. | Am't on ground end mo |
|---|---|---|---|---|---|
| **Klamath Watershed.** | | | | | |
| *Siskiyou County.* | | | | | |
| Yreka | 2,625 | 9 | ..... | 0 | 0 |
| *Trinity County.* | | | | | |
| Hayfork | 2,300 | 25 | ..... | 0 | 0 |
| Ruth | 2,925 | ..... | ..... | ..... | ..... |
| Weaverville | 2,162 | 11 | ..... | T. | 0 |
| **Mountain Lakes.** | | | | | |
| *Inyo County.* | | | | | |
| Bishop Creek | 8,390 | 21 | − 7 | 0 | 0 |
| Independence | 3,907 | 0 | ..... | 0 | 0 |
| *Lassen County.* | | | | | |
| Madeline | 5,270 | 32 | +21 | 8 | 8 |
| Standish | 4,000 | 7 | ..... | 0 | 0 |
| *Modoc County.* | | | | | |
| Alturas | 4,400 | ..... | ..... | ..... | ..... |
| Cedarville | 4,675 | 16 | + 5 | 3 | 1 |
| Fort Bidwell | 4,375 | 18 | ..... | 1 | 0 |
| *Nevada County.* | | | | | |
| Grass Valley | 2,690 | 2 | ..... | 0 | 0 |
| Nevada City | 2,850 | 4 | + 1 | 0 | 0 |
| North Bloomfield | 3,214 | 8 | + 1 | 0 | 0 |
| *Placer County.* | | | | | |
| Tahoe | 6,230 | 59 | +36 | 28 | 27 |
| *Mono County.* | | | | | |
| Shields Ranch | 3,500 | 7 | ..... | 3 | 0 |
| **Sacramento Watershed.** | | | | | |
| *Butte County.* | | | | | |
| De Sabla | 2,500 | 8 | − 2 | 0 | 0 |
| Inskip | 4,975 | 88 | +47 | 30 | 48 |
| West Branch | 3,216 | 16 | − 5 | 2 | 0 |
| *Nevada County.* | | | | | |
| Deer Creek | 3,700 | 29 | + 6 | 12 | 7 |
| Fordyce Dam | 6,500 | 93 | +40 | 55 | 54 |
| Lake Spaulding | 4,600 | 91 | +37 | 40 | 30 |
| *Placer County.* | | | | | |
| Blue Canon | 4,695 | 68 | +39 | 34 | 20 |
| Emigrant Gap | 5,230 | 80 | +41 | 35 | 21 |
| Summit | 7,017 | 110 | +38 | 66 | 67 |
| *Plumas County.* | | | | | |
| Canon Dam | 4,570 | 47 | ..... | 22 | 25 |
| Chester | 4,550 | 75 | +46 | 22 | 26 |
| La Porte | 5,000 | 66 | +29 | 36 | 35 |
| Portola | 4,832 | 33 | ..... | 8 | 5 |
| Quincy | 3,400 | 25 | +15 | 3 | T. |
| *Sierra County.* | | | | | |
| Downieville | 3,150 | 14 | − 3 | 0 | 0 |
| Sierraville | 5,000 | 17 | − 1 | 10 | 5 |
| *Siskiyou County.* | | | | | |
| McCloud | 3,270 | 48 | +19 | 14 | 20 |
| Sisson | 3,555 | 45 | +21 | 10 | 2 |
| *Yuba County.* | | | | | |
| Camptonville | 3,500 | 20 | + 7 | 0 | 0 |
| **San Joaquin Watershed.** | | | | | |
| *Alpine County.* | | | | | |
| Markleeville | 5,525 | 19 | ..... | 7 | T. |
| Tamarack | 8,000 | 125 | +30 | 83 | 85 |
| Twin Lakes | 7,970 | 116 | ..... | 60 | 96 |
| *Calaveras County.* | | | | | |
| Calaveras Ranger Station | 3,400 | ..... | ..... | ..... | ..... |
| *Fresno County.* | | | | | |
| Camp Seven | 6,980 | 35 | ..... | 20 | 24 |
| Cascada | 4,900 | 22 | ..... | 0 | 0 |
| Hume | 5,300 | ..... | ..... | ..... | ..... |
| Huntington Lake | 6,950 | 56 | ..... | 19 | 28 |
| *Kern County.* | | | | | |
| Glennville | 3,300 | T. | − 7 | 0 | 0 |
| *Mariposa County.* | | | | | |
| Dudley's | 3,000 | 7 | ..... | 0 | 0 |
| Glacier Point | 7,000 | 47 | ..... | 21 | 20 |
| Yosemite | 3,945 | 19 | + 2 | 7 | 9 |
| *Tulare County.* | | | | | |
| Hot Springs | 3,300 | 0 | − 2 | 0 | 0 |
| Springville | 4,000 | 11 | − 1 | 0 | 0 |
| *Tuolumne County.* | | | | | |
| Hetch Hetchy | 3,665 | 37 | +30 | 0 | 1 |
| Lake Eleanor | 4,700 | 38 | +14 | 13 | T. |
| **Mountains of Southern California.** | | | | | |
| Cuyamaca | 4,677 | 0 | − 2 | 0 | 0 |
| Julian | 4,222 | 1 | ..... | 0 | 0 |
| Mount Wilson | 5,704 | 3 | ..... | 0 | T. |
| Nellie | 5,350 | 1 | ..... | 0 | 0 |
| Seven Oaks | 5,000 | 6 | − 6 | 0 | 0 |
| Squirrel Inn | 5,280 | 5 | − 6 | 0 | 0 |