Climatological Data for November, 1910.

DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. MCADIE, District Editor.

GENERAL SUMMARY.

November, 1910, was quite unlike November, 1909. That month was the rainiest November known for many years and the coldest since the present method of determining State averages has been in use. The current November was just about normal with respect to temperature and very dry, the rainfall amounting to little more than 60 per cent of the normal. There were a few stations at which rain fell on 10 or more days, but there were many stations at which rain fell on not more than 3 days during the month and some with only a single rainy day. This may be compared with the preceding November, when rain fell on 12 days as a general average for the whole State, and in some portions the number of rainy days exceeded 20. Comparing the present month with past months of the same name, we find that during a period of 62 years there have been for the central portion of the State 51 years in which the rainfall exceeded the amount of the present month and only 9 years when there was less.

While the precipitation was almost too light to be of great good to the varied interests of the State, the rain was well distributed geographically. For agriculture, mining, stock raising, and the general water-supply problems more rain was needed. This need was urgent because the long dry summer had been preceded by a dry spring and a deficient snow supply in the closing months of winter.

There were no special features of importance in the general character of the weather for the month. There were no extremely high temperatures or long-continued warm spells, and, except in the Salton Desert, maximum temperatures rarely exceeded 80°. In the main the winds were from the north and the general circulation of the lower air from the land seaward, or from the Great Basin southwestward over the mountains. There were not, however, any well-marked Foehn effects, the air moving slowly as a rule and without much momentum. The first week illustrates this condition. Had the pressure distribution been a little more marked and the movement of the air over the eastern flank of the Sierra and down on the western slope been a little more pronounced, higher afternoon temperatures might have been recorded.

A disturbance of moderate energy appeared on the north coast on November 9 and caused unsettled weather with cloudiness and southerly winds in the northern and central counties. On the 11th there was a general reversal of the circulation previously described and the establishment of conditions which, as a rule, prevail in January or February. Light rain fell in the central counties extending gradually to the south as far as San Diego, and for a period of about 100 hours showery, unsettled weather prevailed. Snow fell in the Sierra and there was half an inch on the ground on November 11, marking the beginning of the snow cover for the coming winter. On the 13th thunderstorms were reported in the Valley of the Colorado. Another unsettled period occurred on the 17th, followed by a return to normal conditions.

On the morning of November 21 the pressure distribution was favorable for the development of secondary storms and squalls in the northern counties of the State, and elsewhere there is given a description of a remarkable squall that occurred about 5 a. m. of that date. In the vicinity of San Francisco the squall was remarkable because of its suddenness and the existence of otherwise quiet, normal conditions. We are of the opinion that the squall was due to the larger disturbance over Washington and British Columbia on the same morning and which passed eastward through the northern tier of States, being the forerunner of a series of storms that followed the same general track.

A disturbance that was well marked over the Great Basin on November 23–24 caused rain in California, with snow in the mountains, for a period of about 48 hours. The passage of the low eastward was followed by frosts in the Great Valley of California. This same disturbance was followed by the first general cold wave of the season in practically all districts east of the Rocky Mountains and it was a controlling factor in weather conditions east of the Mississippi at the close of the month. While its existence can be noted over the Great Basin on November 24, its early history, so far as California is concerned, is obscure.

There was considerable fog along the coast during the month, especially in the morning hours.

TEMPERATURE.

Comparing the present month with previous years we find the mean temperature to have been nearly normal. The following table gives the means and departures for each November from 1897 to 1910, inclusive:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	°F.	°F.		°F.	°F.
1897	50.8	−1.7	1904	53.4	+0.9
1898	51.6	−0.9	1905	52.8	+0.3
1899	52.1	−0.4	1906	52.6	+0.1
1900	54.7	+2.2	1907	52.7	+0.2
1901	54.9	+2.4	1908	52.9	+0.4
1902	50.8	−1.7	1909	50.7	−1.8
1903	55.2	+2.7	1910	52.8	+0.3

The highest temperature recorded was 103° on the 1st and other dates at Mammoth Tank and the lowest 1° below zero at Alturas on the 26th. The highest mean temperature was 70.5° at Mammoth Tank and the lowest 33.2° at Tamarack.

PRECIPITATION.

The precipitation was less than one-half of that of November, 1909. The following table gives the average and departure from the normal for each November from 1897 to 1910, inclusive:

Year.	Amount.	Departure.	Year.	Amount.	Departure.
	Inches.	Inches.		Inches.	Inches.
1897	1.41	−1.76	1904	1.44	−0.73
1898	0.99	−2.18	1905	2.26	−0.91
1899	3.82	+0.65	1906	1.92	−1.25
1900	5.21	+2.04	1907	0.28	−2.89
1901	2.65	−0.52	1908	1.85	−1.32
1902	3.61	+0.44	1909	4.52	+1.35
1903	5.03	+1.86	1910	1.91	−1.26

The greatest monthly precipitation was at Weitchpec, 18.74 inches, and none occurred at Bagdad and Mojave. The greatest 24-hour rainfall was 4.83 inches at Magalia. There were a number of stations at which over 2 inches fell in 24 hours.

Snowfall.—There were 34 inches of snow during the month at Tamarack, 30 inches at Summit, 21 inches at Cisco, 20 inches at Daunt, and 19 inches at Fordyce Dam. At the close of the month there remained on the ground at Summit 7 inches. The snowfall was comparatively light.

SUNSHINE.

The following table gives the hours of sunshine and percentage of possible:

Stations.	Hours.	Per cent of possible.	Stations.	Hours.	Per cent of possible.
Eureka	81	27	Sacramento	150	50
Fresno	240	73	San Diego	201	64
Los Angeles	203	65	San Francisco	127	42
Mount Tamalpais	132	43	San Jose	204	67
Red Bluff	149	50	San Luis Obispo	165	53

EARTHQUAKES.

Earthquakes were recorded during November as follows:

Alameda.—November 15, 27.

Santa Clara.—The seismographs recorded disturbance No. 17, on November 5, beginning about 9:18:40 and ending 9:25:24 a. m.; No. 18, on November 6, beginning 12:34:06 and ending 1 p. m.; No. 19, November 8, beginning 10:36:10 a. m. and ending 10:41:30; No. 20, on November 25, beginning 9:04:24 p. m., ending 10:02 p. m.

It may be of interest to note that three well-equipped seismological observatories are now established in this district—namely, Santa Clara, the Lick Observatory, and the University of California at Berkeley. The instruments used are the Wiechert 80-kilogram astatic horizontal and vertical and the Bosch-Omori with recent improvements.

NOTES ON THE RIVERS OF THE SACRAMENTO AND SAN JOAQUIN WATERSHEDS FOR NOVEMBER, 1910.

By N. R. TAYLOR, Local Forecaster.

Sacramento watershed.—Owing to the shortage of rainfall, which was marked in the lower Sacramento Valley and the foothills thereof, low stages prevailed in all streams throughout this watershed, and the general average was only slightly above that of the preceding month. At most points in the Sacramento River and throughout the drainage basins of the American and Feather-Yuba territory the water was the lowest of any November of which there is a record.

San Joaquin watershed.—Showers were fairly well distributed over this watershed from the 8th to 28th, inclusive, and relatively heavy rains fell generally on the 25th, but there was little deviation from the prevailing low stages of water in any of the streams.

PEACHES AND CLIMATE.

By Prof. W. T. CLARKE, University of California.

This is a portion of a paper on choosing a proper location for peach orchards, and is published by the courtesy of the editor of the California Fruit Grower.

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The next item we wish to call attention to as of extreme importance in the matter of choice of location of the peach orchard is the climatic conditions prevalent where it is intended to make the plantings. In our survey of regions in California where peach orchards are successfully grown we have noted the fact that the Sierra foothills to the floor of the main valleys and from the smaller interior valleys to valleys opening upon the ocean, from the north to the south, these plantings are found.

In a geographical distribution so great as this, involving as it does very considerable differences in altitude, in ocean exposure, and in other modifying influences, it will be readily seen that the general climatic conditions will hardly be identical in all of the sections studied. In the orchard regions of the Sierra foothills we find that the peach plantings are in what may be termed a thermal belt. This means that great extremes, especially of cold, are not found prevalent in the section. Frosts are rare and indeed practically unknown at the critical period of the trees' development in the spring, the time of blossoming. Even in those Sierra sections where peaches are grown and where frosts do occur the orchards are placed on sloping ground on side hills, and the cold air drains away and thus damage from this cause is avoided. We will then emphasize this point of fairly mild conditions prevailing at blossoming time where successful work with the peach is done in this region.

Again, in the smaller valleys opening into the great Sacramento Valley we find the same fairly mild conditions to be the rule where the orchards are continuously successful. The summer temperatures in both the regions range from high to very high, while the spring temperatures are not excessively low. The same conditions, with perhaps here and there slight modifications, hold for those sections of the main valley where we have found the peach to be a good and paying crop. Of course in the main valley we may expect to and do find sharper changes than in the regions previously noted. This is due to the fact that the surroundings offer less in the way of protection than in these other regions. Nevertheless the rule of fairly mild conditions at the period of blossoming holds here as a general rule, as does that other rule of quite high and well-sustained summer temperatures.

Follow southward into the San Joaquin Valley peach sections and we find, as far as climatic conditions are concerned, that this same set of rules holds with a fair degree of regularity. The most constant variation from the regions we have before studied is perhaps in the matter of summer temperatures. In this last noted section we may perhaps find an average higher summer temperature in the San Joaquin Valley peach sections than in the more northern sections. Incidentally we may look upon this as an advantage, more especially if we are growing peaches for drying purposes. The point we wish to emphasize now, however, is this matter of the absence of killing frosts at the period of bloom and the general high temperatures through the summer.

Going across the range of mountains into the more southerly peach sections of the State, we find the mild spring conditions and the high to very high summer conditions of temperature repeated; and where these conditions do not prevail we can be fairly sure that peach growing is, comparatively speaking, an unremunerative business.

Again, in those valleys along the Pacific coast line where any notable degree of success in peach growing has been attained, we find that the observed rule of mild spring conditions holds with a very fair degree of regularity. The summer temperatures in these valleys may not be as high on the average as in the regions before studied, yet they are fairly high. We have also noted previously that, owing to the topography of these valleys, the sometimes harsh and moisture-laden sea breezes are deflected and do not exert any deleterious influence upon the orchards. Where this is not the case and the trees grow unprotected from the ocean breezes the growing of peaches is by no means the success that it undoubtedly is where nature is disposed to be more kindly in her actions. We thus see that in spite of the difficulties in altitude, in exposure, in northern or southern location, the peach-growing sections of California exhibit in their climatic conditions certain quite marked similarities.

The intending planter should, then, in making his decision as to whether or not he will plant a peach orchard see to it that he knows well just what the climatic conditions are in the region where he intends to do business. It is decidedly important, too, that his acquaintance is complete, covering not alone a single year in its entirety, but extending over a term of years. He can not afford to determine from a single year's record what the general conditions may be expected to be. This, of course, does not necessarily mean that one should live for a term of years in a region gathering data to determine whether or not he shall plant a peach orchard. In most parts of the State rather full and complete weather records have been kept for years past. These records are available and can be used by anyone who cares to look them up. Indeed, it is the experience of this writer that many of the reported failures in orchard work here in California can be traced to causes that might easily have been avoided had the planter only understood that sources of information in regard to previously existing climatic conditions are available and, understanding this, had intelligently used this information. The climatic conditions which the orchard will have to meet are prime factors in the problem, and if these factors are neglected the results may be disastrous.

A PECULIAR SQUALL.

By A. G. MCADIE.

On November 21, 1910, at 4:45 a. m., there was a marked disturbance in atmospheric pressure at San Francisco. The morning was comparatively quiet with light winds; suddenly and without any of the usual preliminary signs of air movement, the wind rose, and gusts, varying in velocity it is estimated from 20 to 30 miles, occurred. The barometer fell rapidly and then rose rapidly. From 4:52 a. m. to 5:12 a. m. 7 miles of wind were recorded. At Oakland, about 7 miles due east, the wind movement was 6 miles, from 4:57 to 5:15 a. m.

The character of the disturbance was so unusual that it attracted general attention. Prof. Charles Burckhalter, of

TABLE 1.—*Climatological data for November, 1910. District No. 11, California.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Oregon.																				
Klamath Agency	Klamath	4,169	2	35.1	.....	68	3	9	15	55	6.80	.....	1.40	26.0	13	12	2	16	s.	Edson C. Watson.
Klamath Falls	....do	4,250	15	36.4	− 3.3	66	1	4	25†	38	5.18	+ 3.84	1.45	13.5	12	7	6	17	nw.	W. H. Heilman.
Lakeview	Lake	4,800	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. L. Wharton, jr.
Merrill	Klamath	4,070	4	38.0	.....	72	1	3	26	47	4.20	.....	2.00	7.0	5	10	11	9	.....	Mrs. Agnes Ritchson.
Yonna	....do	.....	3	35.6	.....	68	1	−10	25	49	6.52	.....	1.74	20.5	11	7	10	13	s.	Jacob Rueck.
California.																				
Alameda	Alameda	.....	1	52.9	.....	72	1	38	26	....	0.06	.....	0.02	0.0	3	7	16	7	w.	Chas. E. Sears.
Alturas	Modoc	4,460	6	39.2	.....	75	1	− 1	26	53	2.59	.....	0.70	9.0	10	9	9	12	sw.	Prof. C. B. Towle.
Anderson (near)	Shasta	550	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. S. Richardson.
Angiola	Tulare	208	10	43.8	−10.3	67	2†	30	16†	30	0.30	− 0.35	0.30	0.0	1	19	0	11	nw.	Santa Fe Co.
Antioch	Contra Costa	46	31	.....	.....	.....	.....	.....	.....	....	0.02	− 1.46	0.02	0.0	1	13	0	17	.....	Southern Pacific Co.
Aptos	Santa Cruz	102	25	52.3	− 0.7	69	1	34	27†	....	0.73	− 2.46	0.45	0.0	2	16	1	13	nw.	Do.
Arrowhead Springs	San Bernardino	2,000	1	65.2	.....	83	10	51	27	21	0.90	.....	0.50	0.0	2	.....	.....	.....	.....	G. I. Royce.
Auburn	Placer	1,360	9	52.0	− 3.0	75	2	33	26	31	1.49	− 2.44	0.49	0.0	5	15	5	10	ne.	Southern Pacific Co.
Avalon	Los Angeles	.....	....	59.1	.....	69	4	47	27	18	0.08	.....	0.08	0.0	1	22	6	2	.....	W. N. Vilas.
Azusa	....do	540	8	60.1	.....	90	29†	34	28	52	0.41	− 1.27	0.18	0.0	3	26	1	3	.....	A. P. Griffith.
Bagdad	San Bernardino	784	7	62.8	.....	85	1†	38	28	31	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	Santa Fe Co.
Bakersfield	Kern	404	21	60.6	+ 4.7	88	1	40	27	38	1.37	+ 0.99	0.78	0.0	4	21	7	2	.....	Do.
Barstow	San Bernardino	2,105	7	58.6	.....	90	3†	26	28	45	0.03	− 0.30	0.03	0.0	1	17	11	2	w.	E. L. White.
Berkeley	Alameda	317	23	52.4	− 2.2	66	1	38	26	16	0.87	− 1.93	0.40	0.0	5	8	12	10	sw.	State University.
Biggs	Butte	98	11	62.8	+10.1	80	2†	40	26	....	0.36	− 2.24	0.35	0.0	2	8	2	20	s.	Southern Pacific Co.
Bishop	Inyo	4,450	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Chalfant.
Blocksburg	Humboldt	1,700	4	46.8	.....	80	1	26	25	42	10.77	.....	1.95	0.0	12	5	6	19	se.	Victor Hope.
Blue Canyon	Placer	4,695	11	47.2	+ 1.9	75	3†	18	26†	40	5.39	− 2.62	1.35	6.0	8	10	0	20	s.	Southern Pacific Co.
Blythe	Riverside	.....	1	59.9	.....	91	2	32	30	48	1.98	.....	0.81	0.0	4	21	5	4	.....	H. V. Blenkiron.
Branscomb	Mendocino	2,000	10	47.9	.....	82	1	25	26	41	14.45	− 0.52	2.91	0.0	12	12	7	11	sw.	A. J. Haun.
Brawley	Imperial	−105	1	61.8	.....	90	1	34	29	42	.....	.....	.....	0.0	.....	.....	.....	.....	.....	U. S. Weather Bureau.
Brush Creek	Butte	2,140	6	47.4	.....	70	1†	26	29	36	5.63	.....	2.03	0.0	4	12	3	15	s.	Cal. Gas & Electric Co.
Calexico	Imperial	0	5	63.4	.....	88	1†	36	29	36	T.	.....	T.	0.0	0	23	1	6	nw.	J. E. Peck.
Caliente	Kern	1,290	34	67.0	+11.8	80	1†	45	25	....	0.39	− 0.39	0.09	0.0	6	.....	.....	.....	.....	Southern Pacific Co.
Calistoga	Napa	363	38	52.7	− 0.7	76	8†	30	24†	....	1.60	− 2.19	0.62	0.0	5	17	0	13	w.	Do.
Campbell	Santa Clara	217	13	51.8	− 1.5	78	1	30	19†	40	0.17	− 1.41	0.12	0.0	2	14	6	10	nw.	F. M. Righter.
Camptonville (near)	Yuba	3,500	3	50.6	.....	80	1	32	19†	39	5.68	.....	1.42	0.0	9	14	1	15	.....	S. B. Johnson.
Cedarville	Modoc	4,675	16	41.8	+ 2.9	69	1†	14	27	39	2.36	+ 0.28	0.60	2.0	10	14	15	1	sw.	T. H. Johnstone.
Chico	Butte	189	40	53.4	− 0.4	76	1†	28	26	38	0.86	− 1.70	0.31	0.0	5	15	2	13	s.	Butte Co. R. R.
China Flat	Humboldt	600	1	51.0	.....	73	2	30	5	38	8.57	.....	1.68	0.0	12	8	6	16	s.	O. I. Westerburg.
Chino	San Bernardino	714	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Cisco	Placer	5,939	39	42.0	+ 3.3	70	8†	20	26	....	7.30	+ 2.20	2.65	21.0	8	17	2	11	s.	Do.
Claremont	Los Angeles	1,200	18	58.4	+ 1.1	86	30	37	27	44	0.84	− 1.12	0.44	0.0	7	15	6	9	.....	F. P. Brackett.
Cloverdale	Sonoma	340	8	52.8	.....	83	1	32	6	38	2.57	.....	1.05	0.0	8	14	12	4	n.	Lloyd Browne.
Colfax	Placer	2,421	39	53.8	+ 2.1	77	1†	33	19	34	2.45	− 2.48	0.80	0.0	5	17	0	13	.....	Southern Pacific Co.
Colusa	Colusa	60	7	54.2	.....	77	23	32	1†	45	0.20	− 1.64	.....	0.0	1	.....	.....	.....	.....	W. K. De Jarnatt.
Corning	Tehama	277	24	66.9	+11.8	80	2†	50	25†	....	0.77	− 1.45	0.42	0.0	3	12	0	18	s.	Southern Pacific Co.
Cuyamaca	San Diego	4,677	11	47.2	+ 2.5	71	2	27	26	31	2.62	− 1.79	1.40	T.	5	14	9	7	e.	L. L. Macquarie.
Daunt	Tulare	4,000	3	38.8	.....	60	1	28	13†	26	1.96	.....	0.85	2.0	3	16	7	7	.....	D. L. Wishon.
Davisville	Yolo	51	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. H. Beckett.
Deer Creek	Nevada	3,700	3	44.0	.....	72	1	21	26	34	4.64	.....	1.57	1.0	10	8	10	12	w.	Cal. Gas & Electric Co.
Delta	Shasta	1,138	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Denair	Stanislaus	126	10	54.0	− 0.6	76	2†	29	28	41	0.04	− 1.43	0.04	0.0	1	20	4	6	.....	Santa Fe Co.
Dobbins	Yuba	1,650	6	55.1	.....	78	1	34	26	32	2.93	.....	0.82	0.0	10	4	19	7	.....	Cal. Gas. & Electric Co.
Dudleys	Mariposa	3,000	1	46.3	.....	73	2	22	26†	41	2.38	.....	0.90	0.0	5	9	11	10	n.	W. H. Dudley.
Dunnigan	Yolo	65	33	59.7	+ 4.7	75	7	42	30	....	0.14	− 1.93	0.10	0.0	2	11	5	14	n.	Southern Pacific Co.
Dunsmuir	Siskiyou	2,285	21	44.6	− 0.3	75	1†	26	26	....	10.34	+ 3.85	1.95	6.0	14	12	0	18	n.	Do.
Durham	Butte	160	15	53.0	+ 2.0	80	1	29	26	41	0.66	− 2.29	0.32	0.0	3	16	7	13	s.	R. W. Durham.
El Cajon	San Diego	482	11	58.8	− 1.3	84	30	33	21†	50	0.88	− 0.51	0.43	0.0	4	23	0	7	sw.	H. H. Kessler.
Electra	Amador	725	6	55.2	.....	74	1†	34	26†	32	1.87	.....	1.03	0.0	5	18	7	5	.....	Cal. Gas & Electric Co.
Elsinore	Riverside	1,234	15	57.1	− 2.1	84	30	27	20†	56	0.19	− 1.55	0.10	0.0	3	22	6	2	w.	W. H. Bohannon.
Emigrant Gap	Placer	5,230	36	45.4	+ 2.4	60	1†	30	15	29	5.00	+ 0.47	2.50	4.0	4	22	0	8	.....	Southern Pacific Co.
Escondido	San Diego	657	16	56.6	+ 1.5	81	21†	25	29	55	1.27	− 0.17	0.51	0.0	4	2	26	2	w.	A. R. Moon.
Eureka	Humboldt	64	24	50.6	− 0.4	66	9	34	26	20	6.86	+ 1.54	1.65	0.0	15	2	8	20	se.	U. S. Weather Bureau.
Farmington	San Joaquin	111	31	55.4	+ 0.7	80	1	34	30	....	0.38	− 1.33	0.34	0.0	2	19	6	5	nw.	Southern Pacific Co.
Folsom	Sacramento	252	38	54.8	− 0.8	80	1	33	26	34	0.98	− 1.79	0.44	0.0	6	15	7	8	.....	F. O. Hutton.
Fordyce Dam	Nevada	6,500	15	37.6	.....	62	1	8	28	29	6.91	− 0.40	1.45	19.0	10	7	14	9	sw.	E. E. Roening.
Fouts Springs	Colusa	1,650	6	49.8	.....	82	1	24	26	40	1.87	.....	0.67	0.0	7	.....	.....	.....	.....	H. S. Green.
Fresno	Fresno	293	23	54.9	+ 0.3	78	1	34	19	31	0.24	− 0.93	0.13	0.0	3	12	14	4	nw.	U. S. Weather Bureau.
Fruto	Glenn	624	21	51.8	− 4.3	76	1	30	26	....	0.55	− 1.37	0.18	0.0	5	16	0	14	s.	Southern Pacific Co.
Galt	Sacramento	49	32	55.8	+ 1.8	76	22	34	28	....	0.20	− 1.75	0.20	0.0	1	19	3	8	sw.	Do.
Georgetown	El Dorado	2,650	37	50.4	− 5.0	73	1	27	26	34	3.24	− 3.07	1.47	0.0	7	.....	.....	.....	.....	H. D. Jerrett.
Gilroy	Santa Clara	193	36	51.0	− 1.8	85	1	30	29	....	0.44	− 1.78	0.31	0.0	3	22	0	8	se.	Southern Pacific Co.
Gold Run	Placer	3,222	11	49.8	− 2.0	74	1†	28	26	25	3.65	− 2.60	1.30	0.0	6	13	6	11	se.	Do.
Gonzales	Monterey	127	11	55.8	+ 4.1	85	1	32	19†	....	0.27	− 1.35	0.22	0.0	2	14	4	12	n.	Do.
Grass Valley	Nevada	2,690	38	48.5	.....	73	1	25	26	30	2.71	− 2.87	0.84	0.0	7	10	11	9	s.	F. R. Hull.
Greenville	Plumas	3,600	16	44.0	+ 3.4	77	1	21	5	51	4.44	− 0.20	1.15	T.	8	14	5	11	sw.	C. H. Higbie.
Groveland	Tuolumne	2,828	1	48.7	.....	73	1	25	26	35	2.27	.....	1.07	0.0	4	15	13	2	.....	H. S. Richardson.
Guida	Yolo	350	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Hanford	Kings	249	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Santa Fe Co.
Healdsburg	Sonoma	110	17	51.9	− 2.1	78	1	32	12†	40	2.13	− 2.48	0.51	0.0	9	8	0	22	.....	John Favour.
Hearst	Mendocino	1,800	....	51.6	.....	79	1†	32	18†	43	6.05	.....	1.40	0.0	9	11	9	10	nw.	H. D. Ellmaker.
Heber	Imperial	−20	4	63.6	.....	92	2	35	28	40	0.06	.....	0.04	0.0	2	26	0	4	.....	E. T. Chumard.
Hollister	San Benito	284	36	53.2	− 1.3	84	1	30	27	43	0.37	− 1.11	0.20	0.0	4	13	8	9	w.	J. N. Thompson.
Hornbrook	Siskiyou	2,154	22	45.9	+ 3.2	70	1†	25	5	....	3.00	+ 0.49	0.50	6.0	8	10	16	4	.....	Southern Pacific Co.
Hot Springs	Tulare	3,300	3	48.6	.....	73	2	28	27	36	1.08	.....	0.40	0.0	5	18	1	11	.....	U. S. Forest Service.
Hullville (near)	Lake	2,250	3	48.6	.....	83	1	25	26	38	7.07	.....	1.76	1.0	10	1	13	16	nw.	John Duggan.
Idyllwild	Riverside	5,250	9	46.5	.....	73	30	25	19†	42	2.40	.....	1.05	0.0	6	16	7	7	sw.	Earl Powers.
Independence	Inyo	3,907	14	48.0	− 1.2	76	1	22	21	42	0.02	− 0.09	0.02	0.0	1	20	9	1	s.	U. S. Weather Bureau.
Indio	Riverside	−20	32	65.0	+ 2.4	94	1	38	21†	41	0.30	+ 0.11	0.30	0.0	1	19	11	0	se.	F. N. Johnson.
Inskip	Butte	4,975	3	44.0	.....	82	1	20	26	30	9.63	.....	2.75	2.0	9	6	6	18	.....	Cal. Gas & Electric Co.
Ione	Amador	287	32	55.6	+ 2.2	80	2	32	26†	....	0.80	− 1.36	0.60	0.0	3	13	0	17	sw.	Southern Pacific Co.
Iowa Hill	Placer	2,825	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. F. Macy.
Jamestown	Tuolumne	1,471	7	51.2	.....	79	1	29	28	37	0.99	.....	0.75	0.0	3	17	9	4	.....	Sierra Ry. of California.
King City	Monterey	333	23	54.4	+ 0.6	90	2	23	21†	54	0.23	− 1.23	0.19	0.0	2	27	0	3	n.	Southern Pacific Co.
La Porte	Plumas	5,000	16	42.4	+ 2.8	65	6	15	26	33	9.38	− 1.22	2.00	6.0	12	12	4	14	n.	C. W. Hendel.
Le Grand	Merced	255	10	49.6	− 4.0	76	1	30	15†	36	0.73	− 1.24	0.73	0.0	1	20	0	10	.....	Santa Fe Co.
Lemoncove	Tulare	600	15	56.4	+ 0.8	80	1†	31	30	35	0.45	− 1.11	0.26	0.0	2	17	6	7	n.	G. W. Sandidge.
Lick Observatory	Santa Clara	4,209	21	48.0	− 1.4	68	1	28	25†	23	0.94	− 2.01	0.50	0.0	5	20	9	1	n.	The Director.
Livermore	Alameda	485	39	54.3	− 0.6	81	1	30	26	42	0.10	− 1.66	0.05	0.0	2	15	7	8	w.	E. G. Still.
Lodi	San Joaquin	45	28	51.4	− 2.2	72	10	28	26	33	0.21	− 2.28	0.12	0.0	2	14	11	5	w.	Ezra Fiske.
Lone Pine	Inyo	2,728	5	48.6	.....	75	1	20	30	43	0.08	.....	0.08	0.0	1	15	12	3	s.	G. F. Marsh.

TABLE 1.—*Climatological data for November, 1910. District No. 11*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
California—Continued.																				
Long Valley	Lassen	4,400	1	43.4		69	2	20	26	35	1.16		0.76	T.	6	6	8	16	sw.	A. G. Evans.
Los Angeles	Los Angeles	293	33	60.3	+ 1.9	85	29	43	27	35	0.15	− 1.23	0.09	0.0	4	13	8	9	ne.	U. S. Weather Bureau.
Los Banos	Merced	121	23	57.9	+ 3.5	84	1	30	26		0.26	− 0.83	0.18	0.0	2	14	1	15	w.	Southern Pacific Co.
Los Gatos	Santa Clara	600	23	54.0	− 0.3	78	1	35	26	30	0.58	− 3.28	0.43	0.0	4	19	5	2	n.	F. H. McCullagh.
Lytle Creek	San Bernardino	2,900	1																	W. E. Anderson.
Macdoel	Siskiyou	4,258	3	34.2		63	1	10	25†	42	2.97		0.90	14.0	9	8	7	15	nw.	B. V. L. Co.
Madeline	Lassen	5,270	1	38.4		75	1	2	26	50	2.04		0.40	4.0	9	8	11	11	sw.	J. H. Williams.
Magalia	Butte	2,321	6	49.7		83	8†	30	26	43	7.99		4.83	0.0	7	11	6	13	se.	Butte County R. R. Co.
Mammoth Tank	Imperial	257	32	70.5	+ 6.7	103	1†	38	30	55	0.91	+ 0.77	0.91	0.0	1	23	1	6	w.	Southern Pacific Co.
Marysville	Yuba	67	39	53.7	− 2.7	74	1	31	26	35	0.55	− 1.49	0.40	0.0	2	13	0	17	s.	Do.
Mecca	Riverside	−185	4	63.5		92	2	34	30	48	0.85		0.85	0.0	1	25	2	3	e.	A. Lunsted.
Menlo Park	San Mateo	64	32	54.2	+ 1.0	68	1†	36	26		0.20	− 1.60	0.20	0.0	1	22	0	8	nw.	Southern Pacific Co.
Merced	Merced	173	36	53.6	− 1.8	72	1	26	28	36	0.43	− 0.82	0.26	0.0	3	17	0	13	nw.	Santa Fe Co.
Mill Creek (1)	Amador		3	47.5		70	1	29	26	38	3.33		1.52	0.0	6	15	9	6	s.	Cal. Gas. & Electric Co.
Milton (near)	Calaveras	660	19	55.8	− 0.5	76	1†	36	26	26	0.28	− 2.02	0.20	0.0	3	22	5	3	nw.	J. H. Southwick.
Modesto	Stanislaus	90	38	58.9	+ 3.1	89	1	33	27		0.27	− 1.16	0.23	0.0	2	26	0	4		Southern Pacific Co.
Mojave	Kern	2,751	33	54.6	− 0.2	86	1	30	16†	45	0.00	− 0.40	0.00	0.0	0	22	0	8		Do.
Mokelumne Hill	Calaveras	1,550	17	53.4	+ 3.2	78	1	33	26	27	1.49	− 2.33	0.77	0.0	4	15	7	8		C. E. Prindle.
Mono Ranch	Ventura	3,210	4	48.3		74	1	22	26	38	0.54		0.20	0.0	4	19	4	7	ne.	H. Lathrop.
Montague	Siskiyou	2,450	22	38.0	− 7.7	72	2	8	4	54	5.40	− 4.12	1.32	4.5	11	4	10	16	s.	G. H. Chambers.
Monterey	Monterey	15	45	52.6	− 1.7	66	15†	36	27†		0.90	− 0.64	0.49	0.0	3	23	2	5	se.	Southern Pacific Co.
Monterio	Kern	4,500	11	53.0	− 3.5	74	4	30	27	28	0.20	− 1.65	0.08	0.0	4	24	5	1	nw.	John C. Knecht.
Monumental	Del Norte		5																	G. F. Morgan.
Mount Tamalpais	Marin	2,375	11	49.2	− 1.4	69	1	35	25	20	0.63	− 4.79	0.30	0.0	7	6	10	14	nw.	U. S. Weather Bureau.
Napa City	Napa	20	33	51.8	0.0	78	1	30	26	38	0.58	− 2.30	0.18	0.0	6	10	15	5	s.	Thomas Hull.
Napa (S. H.)	do	60	32	53.3	+ 1.5	81	1	34	26	36	0.30	− 2.33	0.15	0.0	5	6	13	11	sw.	W. H. Martin.
Needles	San Bernardino	477	18	63.5	+ 3.4	89	2	42	29	35	1.45	+ 1.21	0.73	0.0	5	24	0	6		Santa Fe Co.
Nellie	San Diego	5,350	1	49.6		71	1	15	20	44	3.64		1.04	0.0	5	24	6	0		C. J. Bailey.
Nevada City	Nevada	2,580	18	48.2	+ 1.2	77	1†	22	26	42	2.70	− 4.08	0.72	0.0	9	18	0	12	sw.	S. W. Marsh.
Newcastle	Placer	970	17	58.8	+ 3.9	80	1	38	26	28	1.60	− 3.24	0.65	0.0	4	26	0	4	s.	George D. Kellog.
Newhall	Los Angeles	1,200	33	52.8	− 2.0	85	1	32	28		0.78	− 0.78	0.71	0.0	2	17	0	13	se.	Southern Pacific Co.
Newman	Stanislaus	91	21	58.3	+ 1.2	78	1	41	28†	28	0.19	− 1.12	0.19	0.0	1	13	0	17	n.	E. S. Wangenheim.
Nimshew	Butte	2,500	6	49.2		73	1	26	26	38	5.52		2.03	T.	13	13	2	15		Cal. Gas & Electric Co.
North Bloomfield	Nevada	3,200	13																	W. G. Shand.
North Fork	Madera	3,000	6	50.7		84	3	27	27	43	1.48		0.57	0.0	3	5	17	2	sw.	G. H. Shinn.
Oakdale	Stanislaus	156	16	53.6	+ 0.7	77	1	34	13†		0.39	− 1.61	0.33	0.0	2	15	11	4	nw.	Southern Pacific Co.
Oakland	Alameda	36	34	53.0	− 0.8	68	1	39	26	21	0.65	− 2.38	0.26	0.0	6	10	8	12	w.	Chabot Observatory.
Oceanside	San Diego			58.0		70	1†	41	26†	21	0.77		0.31	0.0	8	14	11	5		H. D. Brodie.
Ojai Valley	Ventura	900	4	57.2		87	29	28	26†	57	0.37		0.28	0.0	5	19	5	6	sw.	W. H. Duncan.
Orland	Glenn	254	28	54.2	− 2.2	79	1	32	30	36	1.02	− 1.06	0.44	0.0	7	13	7	10	n.	W. W. Patch.
Orleans	Humboldt	520	7	52.4		85	1	32	4†	45	11.60		2.17	0.0	16	8	5	17		Fred T. Hale.
Oroville (near)	Butte	250	26	54.8	− 2.3	81	1†	32	27	38	0.83	− 2.91	0.81	0.0	2	8	6	16	s.	E. D. Fairchild.
Palmero	do	213	19	53.8	+ 1.4	78	1†	29	26	41	0.60	− 2.78	0.20	0.0	3	4	15	11	s.	Miss Hettie Boalt.
Palm Springs	Riverside	584	21	61.5	− 3.6	88	1	44	20		0.66	+ 0.37	0.35	0.0	3	22	1	7	e.	Southern Pacific Co.
Pasadena	Los Angeles	827	20	58.0	− 1.1	86	29	35	27	46	0.28	− 0.12	0.14	0.0	4	22	7	1	sw.	E. R. Sorver.
Paso Robles	San Luis Obispo	800	23	52.6	+ 1.0	80	2	17	28	55	0.17	− 1.26	0.10	0.0	3	24	2	4	nw.	Dr. F. W. Sawyer.
Peachland	Sonoma	190	14	52.4	0.0	80	1	29	26	52	1.91	− 2.78	0.98	0.0	11	9	13	8	s.	E. H. Parnell.
Penstock Camp	Tuolumne	3,750	3																	Tuolumne W. P. Co.
Placerville	El Dorado	1,875	21	48.9	+ 0.8	70	2	28	26	31	2.23	− 2.98	1.08	0.0	5	22	4	4		A. Baring Gould.
Point Lobos	San Francisco	250	17	55.6	+ 1.8	71	1	45	26	19	0.44	− 2.12	0.17	0.0	6	13	4	13	nw.	John Hyslop.
Point Reyes	Marin	490	18	52.4	− 0.6	75	1	44	26	20	1.18	− 2.22	0.46	0.0	10	5	9	16	nw.	U. S. Weather Bureau.
Porterville	Tulare	464	21	55.7	+ 0.8	82	1†	31	27†	39	0.26	− 0.44	0.20	0.0	4	19	4	7		Harry E. Cowie.
Quincy	Plumas	3,400	15	47.6	+ 0.5	76	1†	22	4†	54	3.82	− 1.92	0.92	0.0	7	12	2	16	sw.	D. N. Rogers.
Red Bluff	Tehama	307	33	53.6	+ 0.2	77	1	35	26	32	2.78	− 0.32	1.64	0.0	9	12	4	14	nw.	U. S. Weather Bureau.
Redding	Shasta	552	35	53.4	− 0.7	85	1	36	26	26	2.96	− 0.83	0.99	0.0	8	11	0	19	n.	L. F. Bassett.
Redlands	San Bernardino	1,352	17	58.0	− 0.9	83	30	36	27	42	0.48	− 0.46	0.28	0.0	6	16	5	9	w.	Paul W. Moore.
Reedley	Fresno	347	10	53.8	− 1.3	77	5	30	28	34	0.47	− 0.38	0.17	0.0	3	18	1	11	s.	Santa Fe Co.
Rialto (near)	San Bernardino	2,250	4	60.1		88	1	46	8†	26	0.65		0.32	0.0	4	16	7	7	se.	So. California Edison Co.
Riverside	Riverside	851	28	56.7	− 1.5	82	30	22	28†	48	0.40	− 0.36	0.28	0.0	3	13	11	6	w.	C. W. Barton.
Rocklin	Placer	249	39	57.4	+ 3.5	86	7	31	26	37	0.60	− 1.69	0.30	0.0	3	18	0	12	ne.	Southern Pacific Co.
Rohnerville	Humboldt	75	7	50.8		70	1	32	25	33	6.85		2.13	0.0	9	7	6	17	se.	Dr. R. Callahan.
Sacramento (1)	Sacramento	71	33	53.2	− 0.2	78	1	34	26	32	0.17	− 1.98	0.09	0.0	4	9	11	10	se.	U. S. Weather Bureau.
Sacramento (2)	do	35	57	53.1	− 0.4	72	1†	34	26	28	0.26	− 1.89	0.15	0.0	4	12	8	10	s.	S. H. Gerrish.
Saint Helena	Napa	255	2	51.6		83	2	30	25	44	1.40		0.61	0.0	6					B. F. Kettlewell.
Salinas	Monterey	40	36	55.0	+ 1.9	82	1	30	21	44	0.32	− 2.14	0.24	0.0	2	27	1	2		Miss E. Ruth Abbott.
San Bernardino	San Bernardino	1,054	18	58.2	+ 0.8	87	30	30	29	55	0.54	− 0.91	0.26	0.0	6	15	13	2	sw.	Dr. A. K. Johnson.
San Diego	San Diego	93	39	58.7	− 0.3	74	3	43	27	23	0.40	− 0.38	0.18	0.0	6	15	10	5	nw.	U. S. Weather Bureau.
San Francisco	San Francisco	207	39	54.8	− 0.7	76	1	44	26	23	0.48	− 2.20	0.27	0.0	6	6	13	11	w.	Do.
San Jacinto	Riverside	1,550	17	58.8	+ 2.7	94	1	33	20	49	2.94	+ 1.56	2.15	0.0	6	17	4	9		E. T. Tanner.
San Jose	Santa Clara	95	35	53.2	− 1.2	80	1	33	26	38	0.28	− 1.22	0.20	0.0	3	12	12	6	nw.	U. S. Weather Bureau.
San Leandro	Alameda	48	15	52.8	− 4.0	77	2	30	12	38	0.54	− 2.46	0.32	0.0	7	19	1	10	w.	E. B. Sanford.
San Luis Obispo	San Luis Obispo	201	15	57.0	+ 0.7	80	23	33	27	38	0.27	− 1.74	0.23	0.0	3	10	7	13	n.	U. S. Weather Bureau.
San Mateo	San Mateo	22	36	56.2	+ 2.4	72	1	40	26		0.29	− 2.20	0.15	0.0	3	12	11	7	nw.	Southern Pacific Co.
San Miguel	San Luis Obispo	616	23	55.8	+ 2.1	75	7	23	27†		0.20	− 0.91	0.20	0.0	1	10	9	11		Do.
San Miguel Island	Santa Barbara	500																		Capt. W. G. Waters.
Sanger	Fresno	371	21								1.10	+ 0.26								Southern Pacific Co.
Santa Barbara	Santa Barbara	130	26	57.3	− 1.8	80	22	36	28	33	0.33	− 1.27	0.21	0.0	3	18	8	4	w.	George W. Russell.
Santa Clara	Santa Clara	90	21	54.0	+ 0.1	83	1	31	20†	43	0.30	− 1.57	0.20	0.0	3	22	1	7	sw.	Santa Clara College.
Santa Cruz	Santa Cruz	20	37	53.1	− 2.4	75	10	32	26†	35	0.70	− 2.01	0.30	0.0	3	20	5	5	n.	W. R. Springer.
Santa Margarita	San Luis Obispo	996	21																	Southern Pacific Co.
Santa Maria	Santa Barbara	220	22	52.5	− 5.3	71	21	34	24	30	0.15	− 1.12	0.15	0.0	1	25	0	5	sw.	L. E. Blochman.
Santa Monica	Los Angeles	110	25	54.8	− 5.4	70	6†	38	27	30	0.49	− 1.51	0.45	0.0	2	17	4	9	w.	N. D. Ingham.
Santa Rosa	Sonoma	181	21	51.9	− 2.0	82	1	29	26	45	1.76	− 1.26	0.71	0.0	12	2	10	9	sw.	M. L. McDonald, jr.
Selma	Fresno	311	24	54.8	+ 0.2	76	5	31	28		0.33	− 0.55	0.17	0.0	3	18	9	3	se.	Southern Pacific Co.
Shasta	Shasta	1,049	14	56.8	+ 3.8	95	2	28	26	53	5.00	− 1.24	1.87	0.0	6	19	1	10	sw.	Dr. T. J. Edgecomb.
Sierra Madre	Los Angeles	1,400	13	58.4	− 2.8	78	6†	41	27	28	0.79	− 1.12	0.29	0.0	5	16	4	10	se.	Mrs. A. C. Gregory.
Sierraville	Sierra	5,000		41.2		76	11	12	26	51	1.87		0.75	0.0	5	7	8	15	sw.	C. D. Johnson.
Sisson	Siskiyou	3,555	21	41.4	+ 0.3	65	2†	15	25	33	9.09	+ 5.10	1.53	18.0	12	7	0	23	s.	Southern Pacific Co.
Soledad	Monterey	188	36	57.3	+ 4.1	79	9	40	27†		0.27	− 0.82	0.27	0.0	1	26	0	4	n.	Do.
Southeast Farallones	San Francisco	30	7	52.8		60	1	48	24	9	0.58		0.34	0.0	6	8	12	10	nw.	U. S. Weather Bureau.
Sonora	Tuolumne	1,825	22	50.7		69	1†	31	26	28	1.86	− 2.05	0.77	0.0	4	20	7	3	sw.	Charles P. Jones.
Stirling City	Butte	3,525	6	48.6		81	2	26	26	43	6.40		2.80	T.	10	11	13	6	se.	Butte County R. R. Co.
Stockton (S. H.)	San Joaquin	23	39	50.9	− 3.0	70	10	32	26	27	0.17	− 1.59	0.09	0.0	2	22	6	2	nw.	State Hospital.
Storey	Madera	296	10	51.7	− 1.6	74	4†	28	28	35				0.0		20	0	10	nw.	Santa Fe Co.
Suisun	Solano	20	30	48.0	− 6.8	73	20†	37	27		0.30	− 2.01	0.30	0.0	1	24	5	1	w.	Southern Pacific Co.
Summerdale	Mariposa	5,270	14								2.50	− 2.58	0.98	5.0	4					J. H. Lowry.
Summit	Placer	7,017	37	39.1	+ 3.3	69	5	8	26	36	5.46	+ 0.94	1.90	30.0	7	16	4	10	w.	Southern Pacific Co.

TABLE 1.—*Climatological data for November, 1910. District No. 11*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
California—Continued.																				
Susanville	Lassen	4,175	21	41.2	− 0.6	67	2	16	26	36	1.73	− 1.08	0.72	0.0	5	10	14	6	sw.	James Branham.
Tamarack	Alpine	8,000	4	33.2	.....	56	1	0	26	32	4.20	.....	1.60	34.0	8	13	5	12	sw.	William Bennett.
Tehachapi	Kern	3,964	33	48.9	+ 2.4	72	1	35	21	....	0.76	+ 0.20	0.40	0.0	3	....	....	....	.....	Southern Pacific Co.
Tehama	Tehama	220	39	49.0	− 6.1	80	13†	32	27	....	0.88	− 1.45	0.38	0.0	4	14	0	16	s.	Do.
Three Rivers	Tulare	870	....	54.8	.....	81	1†	28	30	42	0.67	.....	0.32	0.0	3	19	4	7	sw.	E. D. Barton.
Towle	Placer	3,704	24	48.2	− 0.8	78	1†	24	26†	49	4.22	− 2.24	1.60	0.0	7	11	1	18	s.	Southern Pacific Co.
Tracy	San Joaquin	64	30	.....	.....	....	....	....	....	....	0.05	− 1.10	0.05	0.0	1	19	5	6	nw.	Do.
Ukiah	Mendocino	620	17	51.0	− 0.2	83	1	28	26	47	2.51	− 1.39	0.70	0.0	9	....	....	....	.....	Dr. George McGowen.
Upland	San Bernardino	1,750	13	56.6	− 2.3	80	29	33	27	44	0.82	− 0.64	0.41	0.0	4	18	6	6	w.	A. P. Harwood.
Upperlake	Lake	1,350	25	48.4	− 3.0	80	1	27	26	38	1.84	− 0.94	0.62	0.0	7	14	5	11	nw.	C. M. Hammond.
Vacaville	Solano	175	22	57.6	+ 1.9	94	4	32	26	49	0.16	− 2.92	0.09	0.0	3	13	14	3	sw.	G. O. Coburn.
Valley Springs	Calaveras	673	21	55.5	− 0.7	74	1	38	26	....	0.60	− 2.02	0.49	0.0	3	12	13	5	w.	Southern Pacific Co.
Visalia	Tulare	334	22	.....	.....	....	....	....	....	....	.....	.....	.....	.....	....	....	....	....	.....	Santa Fe Co.
Werner Springs	San Diego	3,165	2	55.0	.....	83	1	30	26	39	1.77	.....	1.20	0.0	5	24	3	3	.....	Mrs. E. F. Sanford.
Wasco	Kern	336	10	48.3[e]	− 6.3	85	11	20	25	53	0.19	− 0.34	0.19	0.0	1	....	....	....	.....	Santa Fe Co.
Watsonville	Santa Cruz	23	14	52.5	− 3.6	84	1	28	27	46	0.68	− 3.14	0.32	0.0	3	7	18	5	sw.	Spreckels Sugar Co.
Westley	Stanislaus	90	21	55.7	− 1.3	77	2	30	29	....	0.26	− 1.13	0.16	0.0	2	18	2	10	.....	Southern Pacific Co.
Wheatland	Yuba	84	23	52.1	− 0.9	72	1	32	26	30	0.65	− 1.94	0.24	0.0	4	17	5	8	s.	Wm. Lumbard.
Willows	Glenn	136	31	52.6	− 2.2	73	1	31	26	31	0.65	− 1.21	0.25	0.0	5	10	3	17	s.	M. T. Harrington, jr.
Yosemite	Mariposa	3,945	6	44.0	.....	70	1	20	27†	38	1.37	.....	0.48	0.0	4	11	16	3	sw.	C. W. Tucker.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for November, 1910. District No. 11, California.*

Stations.	River basins.	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	
Oregon.																																
Klamath Agency	Klamath							*	*	1.40								*	.70		*	.30	.50	*	1.40		*	1.20	1.30			6.80
Klamath Falls	do							T.	1.45			.23						.20	.21		.04	.21	.35	1.26	.78			.20	.24	.01		5.18
Lakeview	Pitt																															
Long Valley	do								.75	T.	T.	.16	.03				T.	.10	.47	*	*	*	*	*	2.57			.70			2.78
Merrill	Interior Drainage								.80			.30							.40					2.00	.70							4.20
Yonna	do							.05	.80	T.		.45						.20	.33		T.	.25	.58	1.20	1.74			.85	.07			6.52
California.																																
Aguanga	Coast			.60									.11	.68													.14					1.53
Alameda	do																	.02	T.					.02	.02							0.06
Alturas	Sacramento								.03			.32	.10					.09	.24		.03		.10	.40	.70	.52						2.59
Anderson	do																															
Angels Camp	San Joaquin												.38						.65						.85							1.88
Angiola	do											.30																				0.30
Antioch	do																	.02														0.02
Aptos	Coast																		.28							.45						0.73
Arrowhead Springs	do													.50				T.									.40					0.90
Auburn	Sacramento									.48		.04	.09						.39							.49						1.49
Avalon	Ocean			.08																												0.08
Azusa	Coast												.18	.13												.10						0.41
Bagdad	Desert																															0.00
Bakersfield	San Joaquin				.78								.33	.15												.11						1.37
Barstow	Desert													.03																		0.03
Bear River	San Joaquin																															
Bear Valley (1)	Sacramento								.78			.88						.86	.14				.46	.10	1.84							5.06
Bear Valley (2)	San Joaquin				.70								.20	.12						.15							.40					1.62
Bear Valley Dam	Coast			.18											.80											.27						1.25
Ben Lomond	do																	.18							1.05							1.23
Berkeley	do								.12			.15							.20						.40							0.87
Big Bar	Sacramento																															
Biggs	do																			.01						.35						0.36
Bishop	Owens																															
Bishop Creek	do																															
Blocksburg	Coast								1.68								.68	.51			.22	.55	.22	1.95	1.90	.05		2.30	.53	.18		10.77
Blue Canon	Sacramento								T.	1.00		.20	1.00						.39	.30				1.00	.15	1.35						5.39
Blythe	Desert				.20									.70	.81	.18																1.98
Boulder Creek	Coast																		T.							.77						0.77
Bowmans Dam	Sacramento																															
Branscomb	Coast								2.82			.50						.07	.88		.05	.60	.22	2.47	2.32	T.		2.91	1.18	.37		14.45
Brawley	Desert																															0.00
Brush Creek	Sacramento								1.80			1.00							.80									2.03				5.63
Burney	do								.40		T.	.77	.28					.11	.13				.17	.63	1.26	.83		T.	T.			4.58
Butte Creek House	do								.30		.40	.60	.05					.05	.50			.10	.15	.45	.40	.40		.20				3.60
Butte Valley	do									.49		.79	.17						.71		.07			.59	1.05	1.18		.09	.06			5.20
Calexico	Desert			T.										T.	T.																	T.
Callente	San Joaquin			.05									.06	.07					.09							.08	.04					0.39
Calistoga	Coast										.62								.15				.13	.35				T.	.35			1.60
Campbell	do											T.							.05						.12							0.17
Campo	do			.38											.60												.14					1.12
Camptonville	Sacramento								1.42	.09		.60	.32						.91				.07	.22	1.10	.95						5.68
Cedarville	Mountain Lakes								.21			.43	.05					.02	.05			.09	.40	.33	.60	.18						2.36
Chester	Sacramento								.60	.01		.33	.40						.27			.07	.14	.67	.47	.25						3.21
Chico	do								T.			.06							.16						.31	.18		.15				0.86
Chico (near)	do								T.		T.	.05						T.	.15			T.	T.	T.	.68			.12				1.00
China Flat	Coast							.85	.12		.80	T.					T.	.62	T.		.25	.07	1.68	1.63	.36	T.	1.10	.95	.14			8.57
Chino	do																															
Cisco	Sacramento								2.65			.40	.85						.50	.10				1.20	.40	1.20						7.30
Claremont	Coast			.10										.44	.03	.13	.01		.03								.10					0.84
Clear Lake	Klamath																															
Cloverdale	Coast								.40			.08							.22		.01			.27	1.05			.32	.22			2.57
Colfax	Sacramento							T.		.80	.70	.10							.05							.80						2.45
Colgate	do								.13	.60		.04	.52						.51	.02				.01		.91						2.74
Colusa	do																															‡0.20
Corning	do								T.			.42						.15							.20							0.77
Corona	Coast																															
Crockers	San Joaquin																															
Cuyamaca	Coast		.30	.30										1.40	.12	T.										.50						2.62
Daunt	San Joaquin			T.	.48								T.						.63							T.	.85					1.96
Davisville	Sacramento																															
Deer Creek	do								.90		.01	.48	.17					T.	1.00			T.	.01	.23	.24	1.57	.03					4.64
Delta	do																															
Denair	San Joaquin																									.04						0.04
Descanso	Coast			.26										.40	1.60																	2.26
Dinuba	San Joaquin												.15						.65							.45						1.25
Dobbins	Sacramento								.82	.01	.01	.55	.03						.59				.03	.01	.42	.46	T.					2.93
Dorris	Klamath																															
Downieville	Sacramento								.74	.05		.72	.45						1.11			T.	T.	.55	.30	1.28	.12					5.32
Dudleys	San Joaquin											.44	.70	.01					.27						T.	.90						2.38
Dunnigan	Sacramento																		.10							.04						0.14
Dunsmuir	do							T.	.72	.49	.20	1.20	.03					T.	.63		T.	.04	.01	1.17	1.95	.90	T.	.40	1.75	.85		10.34
Durham	do								T.									.24						T.	.32			.10				0.66
Dyerville	Coast								.95			.85									.35				1.20	2.50		2.00				7.85
Edgewood	Klamath								.45	.08		.60						.35				.06		.51	.83	.55		.45	.33			4.21
Edison	San Joaquin																															
El Cajon	Coast			.28										.05	.43												.12					0.88
Electra	San Joaquin								.07			.25	.27						.25							1.03						1.87
Elsinore	Coast			.10										.04	.05																	0.19
Emigrant Gap	Sacramento							1.00	T.			.50	1.00					2.50														5.00
Escondido	Coast			.37										.15	.51												.24					1.27
Eureka	do							.40	.57		.93	.17						.69	.01			.25	.46	1.34	.85	.09	.04	.91	.14	.01		6.86
Fairmont	do																															
Farmington	San Joaquin												.04												.34							0.38
Felton	Coast																		.15							1.14						1.29
Firebaugh	San Joaquin											.12							.01							.21						0.34
Folsom	Sacramento								T.	.44		.02	.02						.24	.02					T.	.24						0.98
Fordyce Dam	do								1.25	.06		1.45	.73	.10				T.	.75				.05	1.20	.08	1.25						6.91
Fort Bragg	Coast							.70	.10		.20	.42						.51				.31	.81	1.24	.12		.31	.24	.06			5.02
Fort Ross	do																															
Fouts Springs	Sacramento								.54			.05						T.	.08				T.	.28	.67	.05		.20				1.87
Fredalba	Coast		.27											.55	.44	.30										.75						2.31
Fresno	San Joaquin											T.	.05						.06							.13						0.24
Fruto	Sacramento							T.				.07	.18						.10			T.				.10			.10			0.55
Galt	San Joaquin																	T.								.20						0.20
Georgetown	do								T.	.75		.08	.16						.65	.11				.02		1.47						3.24
Gilroy	Coast																		.09						.04	.31						0.44

TABLE 2.—*Daily precipitation for November, 1910. District No. 11*—Continued.

Stations.	River basins.	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	
California—Continued.																																
Gilta	Coast								2.06	.20	1.63	.73						.56	.02		.17	.73	.70	1.79	2.42			2.60	.63	.17		14.41
Glendora	do																															
Glenn Ranch	do			.03										.41		.03											.11					0.58
Glennville	San Joaquin				1.12								.09	.19					.42							.27	.24					2.33
Glenwood	Coast											T.							.12						.11	1.00						1.23
Gold Run	Sacramento								T.	.80		.10	.50						.80	T.				.15		1.30						3.65
Gonzales	Coast																		.05							.22						0.27
Grass Valley	Sacramento								.68	T.		.40						T.	.66			T.	.02	.01	.10	.84						2.71
Greenville	do								.49			.68	.28						.66				.07	.20	.91	1.15						4.44
Gridley	do																		.12							.25						0.37
Groveland	San Joaquin											.38	.58						.24							1.07						2.27
Guinda	Sacramento																															
Hanford	San Joaquin																															
Head Dam	Sacramento								1.19			.82	.05					.76						.10	.34	1.10						4.36
Healdsburg	Coast								.19			.09	.09					.15						.04	.45	.54	.12	.46				2.13
Hearst	do								1.00			.25						.40				.10	.10	1.40	1.30			1.00	.50			6.05
Heber	Desert	.02												.04																		0.06
Helen Mine	Coast								.90	.12		.18							.20		.12	.05		.95	4.22			.82	.67			8.23
Hesperia	Desert														.07											.02						0.09
Holcomb	Coast			.10										1.30	.70																	2.10
Hollister	do												.06						.07						.04	.20						0.37
Hornbrook	do																															‡3.00
Hot Springs	San Joaquin				.40									.11	.05				.24						.28							1.08
Hullville	Coast								1.11			.17						T.	.32			.10	.05	1.42	1.76	.01		1.48	.65			7.07
Idyllwild	do			.46	.13									.20	1.05	.07											.49					2.40
Independence	Owens													.02																		0.02
Indio	Desert													.30																		0.30
Inskip	Sacramento								1.10			.87								.90		.04		1.40	2.75	1.58		.37	.62			9.63
Ione	San Joaquin																	.15	.05						.60							0.80
Iowa Hill	Sacramento																															
Isabella	San Joaquin																															
Jacksonville	do												.31						.11	.04						.68						1.14
Jamestown	do											.20	.75						.04						T.							0.99
Jenny Lind	do																		.06							.37						0.43
Johnsville	Mountain Lakes																															
Jolon	Coast																									.21						0.21
Julian	do																															
Kennedy Mine	San Joaquin																															‡1.30
Kennett	Sacramento								1.18	.14		.06	.06									.14		.82	1.56	1.08		.34	1.64			7.02
Kentfield	Coast																								.90	.06		.16				1.12
Kernville	San Joaquin																															
King City	Coast																		.04							.19						0.23
Knights Landing	Sacramento								T.	T.			.16						.08							T.						0.24
Knob	do																															
La Grange	San Joaquin											.07	.16						.04							.37						0.64
Lake Eleanor	do								T.			.17	.43						.62							.65						1.87
Lakeside	Coast		.25												.73												.15					1.13
La Porte	Sacramento								1.40	.09		1.20	.56					T.	1.14			.01	.04	1.40	1.50	2.00		.01	.03			9.38
Lathrop	San Joaquin																			.08												0.08
Laurel	Coast																		.20						.20	1.30						1.70
Laytonville	do								1.33			.31							.42				1.41	1.06	.40		1.71	1.45	.32			8.41
Le Grand	San Joaquin																									.73						0.73
Lemon Cove	do																	.26								.19						0.45
Letter Box	Sacramento																															
Lick Observatory	Coast									.03		.02							.39							.50						0.94
Livermore	do								T.			T.							.05			T.				.05						0.10
Lodi	San Joaquin										T.								.09							.12						0.21
Lone Pine	Owens													.08																		0.08
Long Camp	San Joaquin												1.20												.60							1.80
Long Valley	Mountain Lakes								.05			.11	.17					T.	.02			.05	T.	T.	T.	.76						1.60
Lordsburg	Coast														.42	.10											.13					0.65
Los Alamos	do			.15	.03																					.40						0.58
Los Angeles	do		.01	.08	T.								.03			T.										.03						0.15
Los Banos	San Joaquin																		.08							.18						0.26
Los Burros Mine	Coast																															
Los Gatos	do											.07							.06						.02	.43						0.58
Los Vaqueros	do																															
Lowe Observatory	do				.42											.85										.30						1.57
Lytle Creek	do																															
McCloud	Sacramento								.65	.05	.18	1.20						.03	.45			.06	.31	1.35	2.25			1.35	.22	.14		8.24
Macdoel	Klamath								.87			.26	T.				.06		.18			.15	.07	.90	.46			.02				2.97
Madeline	Mountain Lakes								.40			.32	.15					T.	.30		T.	.02	T.	.30	.09	.36		.10				2.04
Magalia	Sacramento							.60	.20			.24						.66		T.	T.	T.	T.	1.10	4.83				.36			7.99
Mammoth Tank	Desert													.91																		0.91
Mariposa	San Joaquin												.50						.20							.56						1.26
Marysville	Sacramento												.15													.40						0.55
Mecca	Desert																															‡0.85
Melones	San Joaquin												.44							.35						.68						1.47
Menlo Park	Coast																							T.	.20							0.20
Merced	San Joaquin												.08							.09						.26						0.43
Merced Falls	do											.41						.03	.01						.32	.02						0.79
Mesa Grande	Coast		.23									.02	.29	1.06	.01												.58					2.19
Mill Creek (1)	San Joaquin								.26	.01		.42	.70						.42					T.		1.52						3.33
Mill Creek (2)	Coast																															
Mills College	do								.06			.05							.20						.02	.49						0.82
Milo	San Joaquin																		.58								.11					0.69
Milton (near)	do											.05					.03								.20							0.28
Modesto	do																		.04							.23						0.27
Mojave	Desert																															0.00
Mokelumne Hill	San Joaquin								.07			.34							.31						.77							1.49
Mono Ranch	Coast		T.	.20	.05							T.	.19	.10					T.													0.54
Montague	Klamath								1.26	.01	.23	.29						.16	.18			.10	.30	1.22	1.32			.33				5.40
Monterey	Coast																		.30						.11	.49						0.90
Monterio	San Joaquin												.02	.04					.08							.06						0.20
Montgomery Creek	Sacramento								.87	.43		.37	.18						.72				.50	1.60	.94	1.65			1.31			8.57
Monumental	Coast																															
Morena Dam	do																															
Mount Tamalpais	do								.14	.01		.03							.10					.06	.25			.04				0.63
Mount St. Helena	do											.55							.40			.55			.65			.40				2.55
Napa City	do								.15		.03	.04							.15						T.	.18		T.	.03			0.58
Napa (S. H.)	do								.07			.04							.12						.15			.01				0.39
Needles	Desert			.29	.04									.33	.73	.06																1.45
Nellie	Coast			.75	.40								1.04	.60												.85						3.64
Nevada City	Sacramento						.60					.57	.06					T.	.72			T.	.02	.03	.06	.70	.03					2.79

TABLE 2.—*Daily precipitation for November, 1910. District No. 11*—Continued.

Stations.	River basins.	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	
California—Continued.																																
Newcastle	Sacramento									.65									.45	.10						.40						1.60
Newhall	Coast												.71	.07																		0.78
Newman	San Joaquin											T.														.19						0.19
Nimshew	Sacramento								.53	.02		.35	.26					.02	.53		.03	.06	.55		2.03	.87		.15	.12			5.52
North Bloomfield	do																															
North Fork	San Joaquin											T.	57						.48							.43						1.48
North Lakeport	Coast								.11	.02		.10						.07	.03			.01	.06	.18	.45			.18	.15			1.36
Oakdale	San Joaquin												.06						T.							.33						0.39
Oak Grove	Coast			.23									.06	1.20												.02						1.51
Oakland	do								.08		.01	.07							.16						.26	.07		T.				0.65
Oakville	do									.19	.05															.68	.03					0.95
Oceanside	do		.03	.16	T.							T.	.12	.31	.01	.01									.04	.09						0.77
Ojai Valley	do		.01	.05		.01			T.				.28	T.					T.							.02						0.37
Orland	Sacramento							.01			.10	.06						.13		T.					.27		.44	.01				1.02
Orleans	Klamath							1.65	.03	.04	1.00	.02						.68	.10	.19	.51	.48	2.17	1.85	.25		1.00	1.40	.23			11.60
Oroville	Sacramento										.02												T.		.81	T.						0.83
Ozena	Coast						.20																					.25				0.45
Palermo	Sacramento											.20							.20						.20							0.60
Palm Springs	Desert			.16											.35												.15					0.66
Parkfield	Coast																									.21						0.21
Pasadena	do			.06									.14	.06		.02																0.28
Paso Robles	do			.02															.05							.10						0.17
Peachland	do								.22	.02		.03	.02						.13			.01	T.	.11	.98	.04		.33	.02			1.91
Penstock Camp	San Joaquin																															
Peyton	Sacramento																															
Phoenix Dam	San Joaquin												.22						.14							.68						1.04
Pilot Creek	Sacramento								.77		.70								.66					.07	2.10							4.30
Pine Crest	Coast			.13	.04								.05	.17													.22					0.61
Pittville	Sacramento																															
Placerville	do									.52		.09	.12						.42							1.08						2.23
Point Lobos	Coast								.02	.02	T.	.07							.06					.02	.17	.08						0.44
Point Loma	do			.13	.02		.02	.01				.01		.22	.17	.01		T.						.02	.01		.07					0.69
Point Reyes	do		.01						.23	.03		.03						.01	.15			.02	.03	.24	.43			T.				1.18
Pollasky	San Joaquin												.11													.31						0.42
Porterville	do										.20	.03						.05							.08							0.36
Priest Valley	Coast																		.09							.17						0.26
Quincy	Sacramento								.34			.50	.45					.70						.13	.78	.92						3.82
Red Bluff	do								.25		.01	.46	.10					.03	.15				.02	T.	1.64			.12				2.78
Redding	do								.46			.13	.04				T.	.06	.08			T.	.12	.48	T.			.99				2.96
Redlands	Coast			.13	.01									.01	.03	T.			.02								.28					0.48
Reedley	San Joaquin												.15						.15							.17						0.47
Represa	Sacramento								.48									.24														0.72
Rialto (near)	Coast												.10	.20	.03	.32																0.65
Rio Vista	Sacramento																		.08										T.			0.08
Riverside	Coast			.08									.04		T.											.28						0.40
Rocklin	Sacramento								.10									.30							.20							0.60
Rohnerville	Coast		T.						.72			1.06						.20	.61			.23	.20	.70	2.13	T.		1.00	T.			6.85
Sacramento (1)	Sacramento								.01			.01							.09						.06							0.17
Sacramento (2)	do								.01		T.	T.							.15				T.		.08	.02						0.26
St. Helena	Coast								.28														.20	.11	.61		.04	.16				1.40
Salinas	do																.08									.24						0.32
San Bernardino	do			.07										.08	.01	.10			.02								.26					0.54
San Diego	do		.02	.04									.14	.16	.02											.02						0.40
San Francisco	do								.03	.03		.06							.09					.02	.25			T.				0.48
San Jacinto	do			.18	.03									1.85	.30	.05											.53					2.94
San Jose	do											T.							.08						.18	.02						0.28
San Leandro	do							.01	.04		.02	.01						.12						.02	.32							0.54
San Luis Obispo	do		T.	.02	T.														.02						T.	.23						0.27
San Mateo	do																		.12						.02	.15						0.29
San Miguel	do			T.															T.							.20						0.20
San Miguel Island	Ocean																															
Sanger	San Joaquin																															‡1.40
Santa Ana River	Coast			.22									.05	.44	.20	.14										.42	.42					1.89
Santa Barbara	do		T.		.08								.04													.21						0.33
Santa Clara	do											.04							.06							.20						0.30
Santa Cruz	do																	.30							.20	.20						0.70
Santa Margarita	do																															
Santa Maria	do			.15																												0.15
Santa Monica	do		T.	.04									T.	.45												T.						0.49
Santa Rosa	do								.25	.08		.04	.03						.22			.02	T.	.10	.71	.06	.01	.23	.01			1.76
Sausalito	do									.22							.11									.31						0.64
Selma	San Joaquin												.17						.10							.06						0.33
Seven Oaks	Coast													.75	T.											.12						0.87
Shasta	Sacramento								.84															1.87		.91	.98	.27	.13			5.00
Shingle Springs	San Joaquin																															
Sierra Madre	Coast		T.	.05	.25								.29	T.		.10			T.							.10						0.79
Sierraville	Mountain Lakes								.40			T.	.30						.20						.22	.75						1.87
Sisquoc Ranch	Coast																															
Sisson	Sacramento								.47	.60	.66	1.26	.15						.48		.52		.80	1.53	1.32			1.12	.18			9.09
Soledad	Coast																									.27						0.27
Sonora	San Joaquin											.77	.55						.13							.41						1.86
South East Farallones	Ocean								.08			.01							.08			.02		.05	.34			T.				0.58
Spreckles	Coast												.01						.05							.26						0.32
Squirrel Inn	do			T.										.88	.32	.15			T.								.84					2.19
Stirling City	Sacramento								.37	.20		.15	.70						.55	.20			T.	.23	1.05	2.80			.15			6.40
Stockton (S. H.)	San Joaquin																		.08							.09						0.17
Storey	do																															
Suisun	Sacramento																		.30													0.30
Summerdale	San Joaquin											.12		.98					.88								.52					2.50
Summit (1)	Sacramento								.22	.20		.98	.50						.50					1.16		1.90						5.46
Summit (2)	Coast																															0.00
Surrey	do		T.	.09									.19	.11					T.							.29						0.68
Susanville	Mountain Lakes											.17	.16						.28						.40	.72						1.73
Tamarack	Sacramento								.25	.10		.65	.50	.30					.50					.30		1.60						4.20
Tehachapi	San Joaquin				.40									.24	.12																	0.76
Tehama	Sacramento							.10					.28						.12							.38						0.88
Three Rivers	San Joaquin												.32						.17							.18						0.67
Towle	Sacramento							T.		.70		.10	.63						.70	.30					.19	1.60						4.22
Tracy	San Joaquin																	.05	T.													0.05
Tulare	do													.37					T.							.04						0.41
Tustin (near)	Coast				.07									.06	T.		.10										.06					0.29
Ukiah	do											.15							.30			.03	.01	.50	.70	T.	.49	.30	.03			2.51
Upland	do			.03										.41		.20										.18						0.82
Upper Lake	do								.19			.11							.15			T.	T.	.31	.62			.38	.08			1.84

TABLE 2.—*Daily precipitation for November, 1910. District No. 11*—Continued.

Stations.	River basins.	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	
California—Continued.																																
Upper Mattole	do																															
Vacaville	Sacramento											.09						.04							.03							0.16
Valley Springs	San Joaquin											T.							.10	.01						.49						0.60
Ventura	Coast																															
Visalia	San Joaquin																															
Warner Springs	Coast		.15										.05	1.20	.17											.20						1.77
Wasco	San Joaquin																	.19														0.19
Watsonville	Coast																	.28						.08	.32							0.68
Weaverville	Sacramento							.58			.42								.40				.15	.95	.40	.33		.77	.29			4.29
Weitchpec	Klamath							.16	3.19	.04	.46	.73					.02	.28	.49		.48	1.64	1.81	3.23	1.35			3.12	1.61	.13		18.74
West Branch	Sacramento								.77			.80	.31					.03	.70			.03	.20	.87	2.10	1.61		.06	.26			7.74
Westley	San Joaquin																		.10							.16						0.26
West Point	do																															
West Saticoy	Coast																									.02						0.02
Wheatland	Sacramento								.06			.24							.14				T.	.21								0.65
Willows	do								T.			.16	.02				T.		.25		T.				.10			.12				0.65
Woodleaf	do																															
Yosemite	San Joaquin											.20	.36						.48							.33						1.37
Yucaipe	Coast																															

TABLE 3.—*Maximum and minimum temperatures at selected stations for November, 1910. District No. 11, California.*

Date.	Lakeview, Oreg.		California.																									
			Alturas.		Barstow.		Beaumont.		Brawley.		Colusa.		Eureka.		Fresno.		Independence.		Los Angeles.		Mount Tamalpais.		Nevada City.		Porterville.		Red Bluff.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	.....	.....	75	22	86	53	82	41	90	53	72	32	59	44	78	48	76	43	72	54	69	60	77	35	82	46	77	45
2	.....	.....	69	24	88	50	78	39	84	50	75	35	57	49	77	50	72	38	75	54	65	45	77	36	82	46	74	48
3	.....	.....	58	35	90	47	70	34	82	54	74	33	54	43	76	51	68	40	67	58	60	40	72	35	75	55	72	46
4	.....	.....	64	15	90	49	65	33	78	53	73	40	55	41	72	45	68	42	68	56	53	39	72	33	76	44	69	42
5	.....	.....	66	17	79	43	67	32	82	52	76	41	52	44	72	44	68	38	68	52	58	41	74	32	77	45	71	41
6	.....	.....	58	25	80	40	73	33	84	49	75	51	57	42	73	44	67	34	78	54	64	48	76	34	71	41	70	44
7	.....	.....	60	35	82	40	68	38	86	50	72	41	66	50	73	46	66	33	67	54	54	43	73	35	74	41	64	49
8	.....	.....	55	41	82	41	60	46	84	46	74	42	60	46	72	41	66	33	61	53	54	47	51	35	75	45	60	51
9	.....	.....	57	31	81	40	61	49	81	48	75	43	66	46	72	48	68	35	70	50	60	50	66	46	76	48	62	53
10	.....	.....	67	45	80	42	58	40	85	46	76	50	65	51	73	52	62	36	74	52	59	52	65	40	78	56	65	49
11	.....	.....	55	37	73	42	57	41	80	45	64	51	54	49	66	52	65	38	63	51	52	38	53	47	53	48	59	49
12	.....	.....	47	31	75	43	57	37	77	52	69	49	52	40	59	47	57	40	63	55	49	36	59	29	62	46	61	46
13	.....	.....	55	20	77	43	59	37	75	50	75	35	54	38	59	40	56	43	63	54	55	42	70	31	68	44	68	46
14	.....	.....	58	21	79	49	62	31	73	55	59	33	53	43	65	44	62	42	68	54	57	49	64	30	69	69	71	44
15	.....	.....	58	19	75	42	63	30	73	55	60	36	52	43	69	45	60	34	60	54	53	43	64	31	69	39	64	42
16	.....	.....	48	20	74	48	61	32	74	46	64	39	52	46	66	41	62	34	67	51	54	45	64	30	73	42	57	42
17	.....	.....	50	30	77	40	60	38	78	46	72	40	52	46	69	44	62	35	65	51	56	41	58	30	58	48	55	49
18	.....	.....	43	32	70	39	51	36	77	45	63	41	57	45	53	45	60	37	61	52	46	40	48	35	70	41	60	44
19	.....	.....	50	21	71	33	55	30	74	47	67	43	59	41	58	34	58	32	69	47	54	42	61	26	65	40	60	40
20	.....	.....	46	45	72	30	52	34	75	38	70	33	59	53	63	35	59	26	76	52	53	42	63	28	66	35	56	41
21	.....	.....	49	37	75	30	53	40	79	37	72	35	59	49	65	41	58	30	76	55	55	44	61	35	68	39	59	49
22	.....	.....	44	30	77	35	51	38	77	39	75	37	57	47	67	43	64	30	74	51	57	45	61	34	72	43	60	45
23	.....	.....	50	35	98	55	53	43	79	40	77	32	57	48	67	45	64	29	72	49	56	48	57	46	73	43	64	57
24	.....	.....	45	31	78	38	53	40	78	40	65	40	49	42	74	46	74	32	64	47	48	37	49	46	55	45	60	46
25	.....	.....	35	15	73	37	46	28	77	40	63	33	50	36	57	41	63	33	61	49	42	35	51	34	56	32	55	39
26	.....	.....	26	−1	65	35	45	25	70	43	69	34	52	34	55	35	51	27	63	45	45	36	50	22	61	34	49	35
27	.....	.....	36	1	66	29	47	37	72	39	70	33	56	48	60	37	52	24	65	43	45	37	50	38	62	31	48	42
28	.....	.....	42	31	70	26	49	45	73	36	75	32	58	54	61	35	52	24	74	47	53	45	59	29	66	33	61	45
29	.....	.....	55	29	70	28	60	39	75	34	73	34	62	46	63	38	58	22	85	50	58	42	69	27	70	31	62	42
30	.....	.....	51	29	70	29	63	39	76	35	60	32	55	43	62	36	58	24	82	55	65	46	65	29	71	50	57	40
Mns.	.....	.....	52.4	26.1	77.4	39.9	59.0	36.8	78.3	35.4	70.1	38.3	56.3	44.9	66.7	43.1	62.5	33.6	69.0	51.6	55.0	43.3	62.9	53.9	69.1	42.3	62.3	45.0

Date.	California.																									
	Redlands.		Sacramento.		San Diego.		San Francisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	80	46	78	49	67	58	76	53	80	42	75	54	66	55	82	37	64	34	62	45	59	31	64	32	70	32
2	77	47	68	42	71	58	58	53	65	49	72	54	68	54	74	44	65	32	60	48	61	30	67	31	69	35
3	70	54	62	44	74	60	56	51	67	50	68	54	65	55	65	51	65	32	58	45	64	28	61	31	65	32
4	69	53	67	40	65	56	59	50	66	42	57	52	64	57	62	40	52	24	58	42	63	37	52	26	62	34
5	79	47	71	43	67	52	60	48	65	38	62	41	64	53	65	36	57	24	59	42	69	33	57	25	63	31
6	82	49	73	41	68	53	58	49	66	44	76	42	71	46	68	36	62	41	68	41	58	28	61	28	62	32
7	74	45	67	46	65	59	60	50	63	46	65	49	65	48	67	41	62	35	64	44	57	27	60	30	65	26
8	60	47	60	50	66	53	59	54	67	50	66	50	63	50	59	44	64	38	66	43	45	31	61	34	67	24
9	74	40	70	52	64	55	66	54	76	51	79	47	67	47	68	53	65	47	68	51	48	33	57	34	68	28
10	81	46	68	52	68	51	61	53	64	51	74	52	67	50	65	47	54	33	70	49	44	34	63	39	64	31
11	69	47	60	47	63	52	57	51	60	41	58	52	65	54	62	52	50	35	68	53	43	34	53	43	55	33
12	63	50	57	39	64	58	59	48	62	40	60	49	60	55	63	32	43	34	60	44	48	28	51	31	60	35
13	64	46	65	38	59	54	62	47	66	34	68	45	65	50	68	32	45	25	57	37	47	33	48	27	61	28
14	58	48	65	42	65	53	61	48	63	36	60	44	70	48	64	34	47	31	56	43	52	28	50	27	55	28
15	59	48	66	42	63	53	56	48	64	42	64	44	62	49	63	35	51	26	56	39	49	28	50	26	60	25
16	68	40	59	37	63	48	55	49	59	44	66	39	65	45	55	45	57	26	54	38	50	29	50	25	61	24
17	70	42	64	42	62	54	59	47	64	44	64	38	62	46	68	38	58	39	57	37	54	36	52	34	64	29
18	57	47	59	44	62	52	58	49	61	39	57	48	65	52	62	45	49	41	56	47	47	30	50	36	54	35
19	72	40	59	36	63	48	60	47	62	34	65	49	68	42	63	33	47	23	56	36	51	19	43	24	50	24
20	77	37	60	37	70	48	61	46	63	34	72	53	72	41	62	34	50	28	56	35	53	22	49	26	61	25
21	78	40	65	47	71	48	63	51	66	43	72	59	74	44	60	47	46	41	60	44	51	30	56	34	65	32
22	78	45	62	48	66	48	61	50	66	47	74	54	80	47	64	50	52	35	64	51	54	31	56	32	59	33
23	79	44	69	53	65	44	66	53	76	43	80	48	68	51	60	52	45	34	64	48	43	36	57	32	58	30
24	80	42	60	48	60	48	58	49	60	49	62	47	63	49	58	40	34	26	56	48	40	38	49	40	61	34
25	59	46	58	40	62	52	56	45	56	38	57	46	60	49	57	33	30	15	54	46	38	24	41	30	53	30
26	59	42	53	34	60	47	55	44	60	33	56	41	62	37	56	29	35	17	57	32	32	8	35	16	47	21
27	65	36	59	40	62	43	60	46	65	38	61	33	64	42	55	41	41	32	56	37	33	16	45	22	49	20
28	76	39	65	40	68	47	64	50	66	38	68	45	68	36	60	47	41	34	56	34	40	26	47	33	52	20
29	82	40	61	38	72	50	64	49	68	34	75	37	76	40	64	34	52	32	56	34	40	25	45	24	53	25
30	83	42	56	38	74	53	60	50	60	35	77	40	75	45	59	33	56	30	52	35	49	30	47	26	46	22
Means	71.4	44.6	63.5	43.0	65.6	51.8	60.3	49.4	64.9	41.6	67.0	46.9	66.8	47.9	63.3	40.5	51.3	31.5	59.5	42.3	49.4	28.8	52.6	29.9	59.3	28.6