

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT No. 11, CALIFORNIA

PROF. ALEXANDER G. McADIE
DISTRICT EDITOR

REPORT FOR JUNE, 1913

Prepared under direction of HENRY E. WILLIAMS, Acting Chief U. S. Weather Bureau



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CLIMATOLOGICAL DATA FOR JUNE, 1913.

DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. MCADIE, District Editor.

GENERAL SUMMARY.

June, 1913, was the coolest June since 1897. The precipitation was above the average. On the whole the month was favorable for agriculture, although a heavier rainfall would have been beneficial. There were comparatively few periods of strong north wind, which was advantageous, for owing to the generally dry character of the season and the small supply of water the existence of such winds would have resulted in considerable loss. The snow in the mountains disappeared early, nearly two weeks earlier than during the preceding year, which itself was one of early disappearance. The supply of water is not abundant and the outlook for the long, dry summer is not favorable. In the mountains the season opened early, and passes not usually accessible until the middle of June were open for travel before the beginning of the month.

The month began with pressure distribution favorable for fair weather. There were, however, sporadic thunderstorms in the San Joaquin Valley and the Sierra foothills. A somewhat unsettled condition continued for 5 days and while there were no rains of consequence, there was considerable cloudiness with passing showers. From June 4th to 9th thunderstorms were frequent in the Sierra and eastward over the Great Basin. From the 10th to the 17th conditions were normal. Beginning with the 18th a well marked change in pressure distribution over the western half of the country took place. Unsettled weather prevailed on the Pacific slope, and there were light rains in northern California. This condition lasted for about 10 days. Light rains were frequent and there were no high afternoon temperatures. The winds were mostly south and the temperatures much below normal.

The month was without any feature of special interest.

TEMPERATURE.

The temperature for the State was 3° below the normal. The following table gives the mean temperature for California for each June during the time records have been kept:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	$^{\circ}F.$			$^{\circ}F.$	
1897.....	69.8	+0.8	1906.....	66.7	-2.3
1898.....	71.3	+2.3	1907.....	66.1	-2.9
1899.....	71.5	+2.5	1908.....	66.0	-3.0
1900.....	71.4	+2.4	1909.....	68.1	-0.9
1901.....	70.5	+1.5	1910.....	67.3	-1.7
1902.....	70.2	+1.2	1911.....	66.7	-2.3
1903.....	70.9	+1.9	1912.....	68.0	-1.0
1904.....	71.1	+2.1	1913.....	65.8	-3.2
1905.....	67.5	-1.5			

The highest temperature recorded was 119° at Greenland Ranch on the 22d, which was 1° lower than the highest temperature recorded during the previous year

at the same station. Greenland Ranch is located in Death Valley, and temperatures may reasonably be expected to reach as high a degree here as at any point in the United States. The lowest temperature was 22° at Yosemite on the 10th.

PRECIPITATION.

The average precipitation for California for June with departures from the normal is as follows:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	Inches.	Inches.		Inches.	Inches.
1897.....	0.46	+0.15	1906.....	1.05	+0.74
1898.....	.25	-.06	1907.....	1.02	+.71
1899.....	.57	+.26	1908.....	.17	-.14
1900.....	.19	-.12	1909.....	.19	-.12
1901.....	.01	-.30	1910.....	.05	-.26
1902.....	.10	-.20	1911.....	.15	-.16
1903.....	.07	-.24	1912.....	.49	+.18
1904.....	.04	-.27	1913.....	.58	+.27
1905.....	.07	-.24			

The greatest monthly precipitation was 7.44 inches at Tamarack, which was 4.64 inches greater than the heaviest monthly rainfall reported during June, 1912, and more than 6 inches greater than the heaviest monthly rainfall reported during June, 1911. At 34 stations there was no rainfall.

SNOWFALL IN THE MOUNTAINS.

The snow was unusually light during the month. The ground was bare at an elevation of 7,000 feet two weeks earlier than during the preceding June. There is very little snow left at the higher elevations, and the outlook for water from this source is poor.

The following table gives the total hours of sunshine and percentages of possible:

Stations.	Hours.	Per cent of possible.	Stations.	Hours.	Per cent of possible.
Eureka.....	220	49	Sacramento.....	374	84
Fresno.....	390	59	San Diego.....	238	55
Los Angeles.....	245	57	San Francisco.....	279	63
Mount Tamalpais.....	368	83	San Jose.....	349	79
Red Bluff.....	323	72	San Luis Obispo.....	288	66

NOTES ON THE RIVERS OF THE SACRAMENTO AND LOWER SAN JOAQUIN WATERSHEDS DURING THE MONTH OF JUNE, 1913.

By N. R. TAYLOR, Local Forecaster.

Sacramento watershed.—Rainfall along the immediate course of the Sacramento River and in parts of the Feather-Yuba watershed exceeded the normal for the month. It was relatively heavy during the second decade in some of the upper reaches of the Sacramento and resulted in a slight swell in this stream which was felt as far down as the mouth of the American.

From Kennett to Tehama the Sacramento showed little departure from the usual June stages. South of Colusa, however, the river averaged from 2 to over 6 feet below the normal for the month and was the lowest on record, except the extreme low-water stages of June, 1910.

The American River fell slowly but steadily during the entire month, with a range of over 3 feet between the highest on the 1st and the lowest on the 30th. It averaged nearly 2 feet below the usual June stage and only 0.7 of a foot above the previous lowest water for the month, which was in 1910.

At Oroville on the Feather and Marysville on the Yuba River the averages were 1.5 and 2.1 feet, respectively, below the June normal. Stages at both points were slightly above those of June, 1910.

Conditions now indicate that all streams in this watershed will be unusually low during the late summer and early fall; that the Sacramento River itself will reach unprecedentedly low stages.

Lower San Joaquin watershed.—The snow in the high ranges east of the San Joaquin Valley practically disappeared during the last decade of May, and the effect of snow water on the run-off of the mountain streams was barely noticeable even during the first warm days of June.

Excepting the Tuolumne, which rose over 2 feet during the 24 hours ending at 7 a. m. of the 27th, as a result of heavy local rains, all streams fell steadily during the greater part of the month and averaged much below the June normal. The extreme low-water stages will be reached much earlier than usual in all streams in the San Joaquin Valley.

NOTES ON STREAMS OF THE UPPER SAN JOAQUIN WATERSHED.

By JAMES H. GORDON, Observer.

The past month has been one of low water, with almost an entire absence of high stages. A rather scanty snow cover is largely responsible for this condition, but the moderate temperatures of the month contributed. For Firebaugh and Friant on the San Joaquin River the stages for June were the lowest in 7 years' record. Ten years' record for the Kings River shows but one year with lower flow, 1908, while the Merced River gave lower stages both in 1908 and 1910.

Low water in the Kings River, from which most of the irrigating canals of Fresno County draw their supply, has

resulted in much litigation between the various water users. The loss in crops will not be nearly so severe as might be expected, for the past dry years have shown the need of a reliable water supply and ranchers generally have wells and pumping plants. The supply of ground water seems to be plentiful in spite of the two dry seasons.

RELATIVE HUMIDITY IN DEATH VALLEY.

By ALEXANDER G. MCADIE.

Hydrographic records from Greenland ranch, Death Valley, Cal., have been maintained for a year. The instrument, a Friez hygrograph, has been twice carefully checked at the Weather Bureau office, San Francisco. The readings are also under control at Greenland ranch by the use of a sling psychrometer. Mr. Fred Corkhill, superintendent at the ranch, formerly called Furnace Creek ranch, has given special attention to the keeping of these records, and Mr. W. L. Locke, of the Pacific Coast Borax Co., has from time to time studied the humidity records in connection with other climatic factors.

It may be stated that while humidities are low, as might be expected, there are periods when a high degree of saturation prevails. A notable instance of this was from the forenoon of October 2 until the forenoon of October 18, 1912, when during the night hours the relative humidity frequently exceeded 90 per cent, while during the midday and afternoon hours the humidity did not fall below 50 per cent during most of the period.

Taking the year's record as a whole it appears that the humidity is not much below that of the Great Valley of California and closely resembles conditions in the San Gabriel Valley. These records would appear to uphold the belief that the dreaded terrors of heat and dryness in Death Valley have been somewhat exaggerated; and that it is quite possible if proper care be taken in the matter of supplies and provision for physical comfort, to live and work in this section.

The highest temperature recorded in California during June, 1913, was 119° on the 22d at Greenland ranch. Mr. Locke states that the maxima during the month ranged from 105° to 119°. During the first week of June the humidity was not high and the weather not oppressive. The lowest humidity reported during the month was 16 per cent. He adds that on July 3 and 4 the Weather Bureau thermometer registered 125°.

TABLE 1.—Climatological data for June, 1913. 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, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of days of cloudy days.			
<i>Oregon.</i>																					
Klamath Falls.	Klamath.	4,100	24	57.2	- 1.9	82	1	36	20	36	2.54	+ 1.76	0.57	0	9	7	15	8	nw. s.	Augusta J. Hayden. C. C. Gott.	
Lakeview.	Lake.	4,825	30	54.3	- 4.4	79	2	30	20	39	3.22	+ 2.12	0.96	T.	11	9	9	12	nw. s.	Ward Rueck.	
Merrill.	Klamath.	4,070	8																		
Yonna.	do.	4,146	6	54.3		81	6	26	20	53	1.72		0.47	0	8	3	13	14	w.		
<i>California.</i>																					
Alturas.	Modoc.	4,400	9	58.5	2.5	86	1†	29	20	51	2.20		0.75	0	11	13	12	5	sw. n.	Prof. C. Bowle. Santa Fe Co.	
Angiola.	Tulare.	208	13	52.5	+ 0.1	99	30	41	30	55	0.20	+ 0.20	0.20	0	1	27	0	3	n.	Southern Pacific Co.	
Antioch **.	Contra Costa.	86	34	70.9	- 1.1	94	27	50	24†		0.00	- 0.11	0.00	0	0	30	0	0	do.	Do.	
Aptos **.	Santa Cruz.	102	28	63.9	+ 1.4	84	2	50	11	77	0.25	+ 0.15	0.20	0	2	17	6	7	sw. nw.	Dr. E. J. Erickson. Southern Pacific Co.	
Arrowhead Springs.	San Bernardino.	2,000	4	66.4		98	21	48	7†	39	1.10		0.55	0	3	19	9	2	ne.	T. S. Manning.	
Auburn.	Placer.	1,360	42	67.1	- 3.7	92	2	42	10	39	0.00	- 0.44	0.00	0	0	24	3	3	ne.	A. P. Griffith.	
Avalon.	Los Angeles.	30	3	62.2		82	30	54	14†	22	0.09		0.08	0	0	2	18	8	e.	Santa Fe Co.	
Azusa.	do.	540	11	66.6	- 1.4	99	21†	45	11	52	0.47	+ 0.32	0.30	0	3	1	20	9	sw.	E. L. White. State University.	
Bagdad.	San Bernardino.	784	10	88.9	- 1.3	110	23	68	29	99	0.00	0.00	0.00	0	0	30	0	0	do.	Union Sugar Co.	
Bakersfield.	Kern.	404	24	70.6	- 8.2	99	5†	40	28	54	0.36	+ 0.33	0.36	0	1	27	0	3	w.	Southern Pacific Co.	
Barstow.	San Bernardino.	2,105	10	73.8	- 3.6	101	21†	48	9	45	0.05	+ 0.05	0.05	0	0	1	23	7	sw.	Paul E. Lodge.	
Berkeley.	Alameda.	317	26	61.0	+ 0.1	8	30	46	9†	31	T.	- 0.20	T.	0	0	12	12	6	sw.	Do.	
Betteravia.	Santa Barbara.	66.4		92	19	42	13	44	36				0.36	0	1	13	15	2	w.	Victor Hope.	
Biggs **.	Butte.	98	14	68.3	- 5.2	100	30	50	4†	50	0.11	- 0.39	0.08	0	0	2	18	3	s.	Southern Pacific Co.	
Bishop.	Inyo.	4,450	18	61.3	- 6.4	91	21†	36	26	51	0.00	- 0.05	0.00	0	0	28	1	1	do.	A. J. Haun.	
Bishop Creek.	do.	8,500	3	51.0		74	21	29	10†	32	2.75		1.00	T.	3	7	16	7	sw.	M. D. Witter.	
Blocksburg.	Humboldt.	1,700	7	58.6		87	1	38	26	38	2.23		0.75	0	8	8	5	17	s.	Mrs. M. D. Chambers.	
Blue Canon.	Placer.	4,695	14																	J. E. Peck.	
Blythe.	Riverside.	268	4	79.2		112	22	50	1	57	0.00		0.00	0	0	27	2	1	s.	Southern Pacific Co.	
Branscomb.	Mendocino.	2,000	13	66.1	- 2.8	85	4	35	4†	41	0.86	- 0.53	0.40	0	0	7	15	8	n.	C. L. Suits.	
Brawley.	Imperial.	-105	4	80.4		107	21	51	9	41	0.00		0.00	0	0	30	0	0	sw.	A. H. Stephenson.	
Burney.	Shasta.	3,300	3	57.8		83	3†	32	20	45	2.78		1.50	0	0	7	10	10	sw.	Dr. W. L. Shawk.	
Cahuilla.	Riverside.	3,600	2	58.5		93	21	31	11	52	0.10		0.10	0	1	20	10	0	sw.	J. E. Peck.	
Caléxico.	Imperial.	0	8																	Southern Pacific Co.	
Caliente **.	Kern.	1,200	37	69.6	- 9.3	93	5	45	1			- 0.25	0.05	0	3	14	0	16	w.	Do.	
Calistoga **.	Napa.	363	41	67.6	- 2.0	90	27	50	1		0.11	- 0.16	0.12	0	4	13	10	7	w.	F. M. Righter.	
Campbell.	Santa Clara.	217	16	61.3	- 0.8	87	29	40	10†	42	T.	- 0.10	T.	0	0	19	8	3	nw.	Cal. Gas & Elect. Co.	
Campptonville (near).	Yuba.	3,500	6	62.8	- 8.8	86	1	40	10	38	0.61		0.33	0	5	15	5	10	sw.	T. H. Johnstone.	
Cedarville.	Modoc.	4,675	19	59.4	- 1.0	83	1†	33	11	41	1.97	+ 1.29	0.88	0	9	4	25	1	sw.	G. H. Stephenson.	
Chico.	Butte.	189	43	72.5	- 4.6	98	30	45	10	41	1.01	+ 0.60	0.88	0	3	16	7	7	s.	O. I. Westerburg.	
China Flat.	Humboldt.	600	4	66.8		95	1†	42	9	42	1.09		0.40	0	8	13	4	3	nw.	Southern Pacific Co.	
Chino.	San Bernardino.	714	21																	Do.	
Cisco **.	Placer.	5,939	42	58.0	+ 3.0	80	21	41	27		0.63	- 0.20	0.25	0	5	24	0	6	sw.	Prof. F. P. Brackett.	
Claremont.	Los Angeles.	1,200	21	66.2	- 1.0	98	29†	44	11	49	0.16	+ 0.02	0.12	0	4	13	10	7	w.	John O. Ogle.	
Cloverdale.	Sonoma.	340	11	66.2	- 2.2	93	29	62	21	42	T.	- 0.27	T.	0	0	23	4	3	e.	Union Oil Co.	
Coalinga.	Fresno.	663	1	72.7		97	13†	46	10	40	0.13		0.10	0	0	2	24	4	2	sw.	Southern Pacific Co.
Colfax.	Placer.	2,421	42	60.4	- 10.8	82	1†	37	26	39	T.	- 0.70	T.	0	0	20	10	10	sw.	C. D. McComish.	
Colusa.	Colusa.	60	10	69.8	- 1.6	92	30	49	9†	37	0.12	- 0.22	0.09	0	2	21	5	4	s.	Southern Pacific Co.	
Corning **.	Tehama.	277	27	78.8	+ 1.5	96	1	59	27		0.71	+ 0.55	0.30	0	4	15	11	4	s.	Cuyamaca Water Co.	
Cuyamaca.	San Diego.	4,677	14	59.0	- 1.4	88	22	31	12	48	0.71	+ 0.46	0.71	0	1	23	2	5	s.	S. H. Beckett.	
Davisville.	Yolo.	51	41	67.2	- 7.6	98	30	38	10	48	0.07	- 0.08	0.07	0	1	25	5	0	sw.	Cal. Gas & Elect. Co.	
Deer Creek.	Nevada.	3,700	6																	H. R. Warner.	
Del Monte.	Monterey.	25	2	62.4		76	24	51	14	22	0.00		0.00	0	0	0	26	0	4	w.	Southern Pacific Co.
Delta.	Shasta.	1,138	28	63.4	- 8.1	95	11†	40	9†	45	2.41	+ 1.07	1.01	0	4	22	8	8	s.	Santa Fe Co.	
Denair.	Stanislaus.	128	13	69.6	- 2.0	96	30	48	10	38	0.10	+ 0.01	0.10	0	1	23	0	7	sw.	Cal. Gas & Elect. Co.	
De Sabla.	Butte.	2,500	9	62.6		86	1	40	10	42	1.51		1.07	0	4	14	16	0	sw.	Do.	
Dobbins (near).	Yuba.	1,650	9	68.4		90	20†	48	10	38	0.47		0.19	0	4	11	19	0	s.	J. T. Mason.	
Downieville.	Sierra.	3,150	2	61.0		87	5	35	20	50	1.54		0.42	0	9	13	12	5	s.	Union Oil Co.	
Dudley.	Kings.	595	73.3			103	30	40	9	45	0.70		0.55	0	2	19	9	2	nw.	U. S. Forest Service.	
Dunlap (near).	Mariposa.	3,000	4	57.9		84	30	33	10	45	0.69		0.60	0	2	13	8	5	nw.	W. H. Dudley.	
Dunnigan **.	Fresno.	2,800	1	60.2		89	30	37	8†	34	0.80		0.46	0	3	19	6	5	sw.	U. S. Forest Service.	
Dunsmuir **.	Yolo.	65	36	79.3	+ 1.4	96	30	62	9†		0.10	- 0.10	0.10	0	1	22	5	3	n.	Southern Pacific Co.	
Durham.	Siskiyou.	2,285	24	64.2	- 0.5	91	2	47	27		2.57	+ 1.63	0.74	0	11	16	0	14	n.	R. W. Durham.	
El Cajon.	Butte.	160	18	71.2	- 1.4	95	1†	48	15	40	0.86	+ 0.57	0.25	0	4	14	8	8	s.	H. H. Kessler.	
Electra.	San Diego.	482	14	65.2	- 2.0	95	29	47	1	44	0.10	- 0.01	0.10	0	1	29	0	1	sw.	Cal. Gas & Elect. Co.	
Emigrant Gap.	Amador.	725	9	69.8		96	30	50	10	34	0.21	- 0.85	0.11	0	0	2	20	0	10	sw.	Southern Pacific Co.
Escondido.	Placer.	5,230	38	56.2	- 3.3	78	21	30	10	54	0.21	- 0.85	0.11	0	0	2	8	19	3	w.	U. S. Weather Bureau.
Eureka.	San Diego.	657	19	66.8	- 1.4	94	20†	42	11	44	0.10	0.00	0.05	0	0	2	8	7	n.	U. S. Weather Bureau.	
Farmington **.	Nevada.	4,735	18	58.5		80	3	41	29	35	2.14	+ 0.37	0.65	0	12	10	13	7	sw.	Southern Pacific Co.	
Fordyce Dam.	Modoc.	1,650	9	54.8	- 5.4	84	3	33	20	41	2.31	+ 1.28	0.90	0	8	9	11	10	sw.	F. O. Hutton.	
Fort Bidwell.	Folsom.	293	26	72.0	- 3.8	97	30	50	10	36	0.10	0.00	0.06	0	2	17	9	4	nw.	E. E. Roening.	

DISTRICT NO. 11. CLIMATOLOGICAL SUMMARY.

JUNE, 1913

TABLE 1.—Climatological data for June, 1913. District No. 11—Continued.

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, unmeted.	Number of rainy days, 0.01 inch or more.					
<i>California—Continued.</i>																				
Independence.....	Inyo.....	3,907	17	67.0	- 6.4	92	21†	42	28	39	0.21	+ 0.17	0.14	0	4	13	12	5	.....
Indian Wells.....	Kern.....	2,500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau.	
Indio.....	Riverside.....	-20	35	83.3	- 5.0	111	21	60	10	37	0.00	0.00	0.00	0	0	22	8	0	nw.	I. D. McCoy.
Inskip.....	Butte.....	4,975	6	56.4	- 76	4	40	27	34	1.93	.....	1.14	0	6	5	10	15	.....	F. N. Johnson.	
Ione **.....	Amador.....	287	35	75.4	+ 1.8	97	30	56	7	38	0.00	- 0.25	0.00	0	0	23	1	6	.....	Cal. Gas & Elect. Co.
Jamestown.....	Tuolumne.....	1,471	10	64.8	- 3.4	96	30	7	51	0.00	- 0.24	0.00	0	0	21	2	7	.....	Southern Pacific Co.	
Kennett.....	Shasta.....	730	1	71.1	.....	100	3	48	15	41	1.71	0.47	0.47	0	6	10	20	0	sw.	Sierra Railway Co.
Kentfield.....	Marin.....	65	25	64.0°	- 9.9	92	24	44	11†	41	1.71	0.47	0.47	0	0	21	6	3	.....	C. H. Kremers.
King City.....	Monterey.....	333	26	62.7	- 0.9	100	24	34	18	60	0.18	+ 0.16	0.18	0	1	29	0	1	n.	Miss M. E. Parsons.
Lake Eleanor.....	Tuolumne.....	4,700	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.	
La Porte.....	Plumas.....	5,000	19	53.2	- 3.0	76	3	35	14†	36	1.00	- 0.60	0.33	0	7	11	15	4	s.	O. J. Todd.
Le Grand.....	Merced.....	255	13	70.0	- 2.9	98	30	29	29	52	9.10	+ 0.10	0.10	0	1	25	5	5	n.	C. W. Hendel.
Lemon Cove.....	Tulare.....	600	18	74.4	- 1.6	101	30	49	10†	46	0.46	+ 0.37	0.46	0	1	11	17	2	n.	Santa Fe Co.
Lick Observatory.....	Santa Clara.....	4,209	24	55.2	- 4.8	74	12	34	9	22	0.07	- 0.33	0.03	0	4	16	6	8	n.	W. R. Park.
Livermore.....	Alameda.....	485	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Director.	
Lone Pine.....	Inyo.....	2,728	8	66.2	.....	94	23†	44	37	48	0.29	.....	0.10	0	5	17	11	2	n.	E. G. Still.
Lassen.....	Plumas.....	4,400	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. F. Marsh.	
Long Valley.....	Los Angeles.....	293	36	64.4	- 0.1	90	29	52	10	29	0.58	+ 0.48	0.58	0	2	12	8	10	sw.	A. G. Evans.
Los Banos **.....	Merced.....	121	26	68.3	- 7.1	92	21†	43	97	42	0.66	- 0.03	0.06	0	1	25	3	2	n.	U. S. Weather Bureau.
Los Gatos.....	Santa Clara.....	600	26	64.1	- 0.7	91	29	43	10	44	2.77	1.06	1.06	0	11	13	14	3	s.	Southern Pacific Co.
McCloud.....	Siskiyou.....	3,410	3	57.6	.....	87	2†	33	10	44	2.77	1.06	1.06	0	6	15	1	14	n.	F. H. McCullagh.
Macdoel.....	do.....	4,528	8	52.4	.....	85	3	38	20	39	0.71	0.50	0.50	0	9	13	8	n.	Butte Valley Land Co.	
Madeline.....	Lassen.....	5,270	4	53.8	.....	78	2	27	20	44	2.50	0.70	0.70	0	2	17	11	2	n.	J. H. Williams.
Mammoth Tank.....	Butte.....	2,321	9	62.6	.....	91	1	41	10	36	0.58	0.30	0.30	0	0	30	0	0	sw.	Butte County R. R. Co.
Maricopa.....	Imperial.....	257	35	85.8	- 6.7	112	21	62	10†	44	0.00	0.00	0.00	0	0	19	9	2	e.	Southern Pacific Co.
Marysville.....	Kern.....	640	22	73.9	- 2.5	98	30	52	9	33	0.38	0.38	0.38	0	1	19	9	2	s.	Union Oil Co.
Mecca.....	Yuba.....	67	42	72.0	- 4.2	99	1	48	14	42	T.	- 0.27	T.	0	0	19	0	11	s.	Southern Pacific Co.
Riverside.....	Riverside.....	-185	7	82.4	.....	110	21	59	10†	43	0.00	0.00	0.00	0	0	27	3	0	se.	E. A. Palmer.
Menlo Park **.....	San Mateo.....	64	35	63.8	- 2.5	74	2†	56	25	52	T.	- 0.15	T.	0	0	0	0	0	.....	Southern Pacific Co.
Mered...do.....	Merced.....	173	39	70.2	- 5.5	95	22	47	10	39	0.18	+ 0.06	0.10	0	3	18	9	3	nw.	Santa Fe Co.
Middlewater.....	Kern.....	803	2	77.2	.....	98	30	51	8†	34	0.43	0.43	0.43	0	1	22	1	7	w.	Union Oil Co.
Mill Creek (1).....	Amador.....	2,500	6	58.4	.....	79	30	39	9†	37	1.22	1.15	1.15	0	3	14	12	4	n.	Cal. Gas & Elect. Co.
Milton (near).....	Calaveras.....	660	22	69.1	- 2.7	97	30	47	7†	42	T.	- 0.25	T.	0	0	20	10	0	n.	J. H. Southwick.
Modesto **.....	Stanislaus.....	90	41	66.9	- 9.7	92	6†	50	8	0.00	- 0.11	0.00	0	0	20	0	0	1	.....	Southern Pacific Co.
Mojave.....	Kern.....	2,751	36	71.2	- 6.3	98	12†	50	10	.....	0.00	- 0.04	0.00	0	0	20	10	0	w.	Do.
Mokelumne Hill.....	Calaveras.....	1,550	22	66.1	- 2.0	92	30	43	10	34	T.	- 0.41	T.	0	0	15	1	14	w.	C. E. Prindle.
Mono Ranch.....	Ventura.....	3,210	7	62.0	.....	92	1	34	10	50	1.22	+ 1.10	0.50	0	4	18	2	10	w.	Herbert Lathrop.
Montague.....	Siskiyou.....	2,450	25	62.3	- 4.6	92	1	39	10	45	4.21	+ 3.58	0.90	0	10	4	16	16	w.	J. E. Debay.
Monterey **.....	Monterey.....	15	48	65.0	+ 4.2	80	19†	54	7†	0.13	+ 0.03	0.13	0.13	0	1	28	2	0	e.	Southern Pacific Co.
Monterio.....	Kern.....	4,500	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John C. Knecht.	
Mount Tamalpais.....	Marin.....	2,375	14	56.7	- 7.4	78	29	41	9	21	0.04	- 0.08	0.02	0	3	16	10	4	nw.	U. S. Weather Bureau.
Napa City.....	Napa (S. H.).....	20	36	60.6	- 4.0	92	29	38	12	44	0.20	- 0.01	0.20	0	1	19	11	0	sw.	Alex. Hull.
Napa (S. H.).....	do.....	60	35	65.6	- 0.2	90	21	46	9	34	0.20	- 0.01	0.20	0	1	13	12	5	s.	A. R. Edgar.
Needles.....	San Bernardino.....	477	21	86.6	- 0.7	107	23	60	2	36	0.00	- 0.01	0.00	0	0	27	3	0	.....	Santa Fe Co.
Nellie.....	San Diego.....	5,350	4	63.0	.....	88	19†	40	10†	40	1.09	.....	1.04	0	2	25	2	3	.....	T. O. Bailey.
Nevada City.....	Nevada.....	2,850	21	60.3	- 2.4	89	30	34	11†	48	1.12	+ 0.45	0.62	0	3	16	14	0	se.	S. W. Marsh.
Newhal **.....	Los Angeles.....	1,200	36	70.7	0.0	98	20	52	5†	0.18	+ 0.11	0.13	0.10	0	1	25	0	5	sw.	Southern Pacific Co.
Newman.....	Stanislaus.....	91	24	73.8	- 2.7	101	12†	47	16	51	0.10	+ 0.04	0.10	0	1	15	6	9	s.	E. S. Wangenheim.
North Bloomfield.....	Nevada.....	3,214	16	66.1	+ 1.1	84	29†	40	27	30	0.20	- 0.71	0.20	0	1	15	6	9	s.	J. R. McIntosh.
North Fork.....	Madera.....	3,000	9	63.0	- 2.5	90	22	37	10	39	1.38	0.65	0.65	0	4	12	15	3	nw.	U. S. Forest Service.
Oak Grove.....	Stanislaus.....	156	19	69.4	- 2.5	98	30	57	8†	.....	T.	- 0.21	T.	0	0	23	1	6	nw.	Southern Pacific Co.
Oakland.....	San Diego.....	2,751	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. L. Johnson.	
Oceanside.....	Alameda.....	36	37	63.3	+ 1.8	84	21	49	10	32	T.	- 0.30	T.	0	0	14	8	8	w.	Chabot Observatory.
Ojai Valley.....	San Diego.....	60	3	65.0	.....	77	29	41	9	34	0.20	- 0.01	0.20	0	2	14	11	5	s.	H. D. Brodie.
Orland.....	Ventura.....	900	7	64.6	.....	100	29	41	11	50	0.85	0.48	0.48	0	4	15	9	6	sw.	W. H. Duncan.
Orleans.....	Glenn.....	254	31	73.0	- 5.7	97	17†	48	9	44	0.63	+ 0.29	0.30	0	4	23	5	2	.....	U. S. Reclamation Service.
Humboldt.....	do.....	520	10	70.2	- 0.6	104	1	46	14	46	2.76	+ 1.77	0.95	0	8	15	6	9	.....	F. T. Hale.
Butte.....	do.....	250	29	71.0	- 3.5	97	30	42	2	47	0.44	+ 0.11	0.20	0	3	16	8	6	s.	E. D. Fairchild.
Palm Spring **.....	Riverside.....	21	22	65.1	- 7.9	96	17	40	4	45	0.45	- 0.10	0.25	0	1	16	8	6	s.	Southern Pacific Co.
Pasadena.....	do.....	584	24	80.9	- 6.8	110	21†	62	1	0.00	0.00	0.00	0	0	30	0	0	.....	Do.	
Paso Robles.....	Los Angeles.....	827	23	65.2	- 5.4	95	29	44	11	44	0.76	+ 0.75	0.55	0	3	15	6	9	sw.	E. D. Sorver.
Peachland.....	San Luis Obispo.....	800	26	64.4	- 3.8	100	22	37	9	49	0.15	+ 0.12	0.15	0	1	24	4	2	nw.	Dr. F. W. Sawyer.
Petaluma.....	do.....	190	17	61.4	.....	92	20	40	10†	45	0.07*	- 0.31	0.07	0	1	23	6	1	sw.	E. H. Parnell.
Placerville.....	Eldorado.....	1,875	24	63.8	- 2.6	88	29†	40	10†	44	0.02	- 0.64	0.02	0	1	14	7	9	nw.	John Hyslop.
Point Lobos.....	San Francisco.....	250	20	56.3	0.0	70	21	49	5†	17	0.01	- 0.13	0.01	0	1	14	3	15	nw.	U. S. Weather Bureau.
Point Reyes.....																				

TABLE 1.—*Climatological data for June, 1913. District No. 11—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Observers.								
				Mean.			Departure from the normal.			Highest.			Lowest.			Greatest daily range.			Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.	Prevailing wind direction.
				Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Total.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.	Do.			
<i>California—Continued.</i>																											
Santa Monica.....	110	28	59.4	-5.7	80	29	47	11	28	0.63	+0.63	0.63	0	1	14	9	7	w.	F. E. Hill.								
Santa Rosa.....	181	24	61.0	-4.2	93	30	35	20	54	0.05	-0.20	0.05	0	1	14	6	7	s.	Southern Pacific Co.								
Selma **.....	311	27	66.2	-12.0	97	30	45	7†	0.00	-0.04	0.00	0	0	28	0	2	.....	Do.								
Seven Oaks.....	5,000	3	55.4	.....	80	22†	31	27	37	0.11	.....	0.11	0	1	16	5	9	w.	M. Lewis.						
Sierra Madre.....	1,400	16	65.4	-1.6	92	21	48	11	36	1.48	+1.23	1.03	0	0	10	13	7	s.	Mrs. A. E. Gregory.								
Sierraville.....	5,000	3	51.6	.....	79	3	28	20	39	0.51	.....	0.35	0	3	10	13	7	sw.	C. D. Johnson.						
Sierra.....	5,555	24	56.6	-5.9	81	1	31	13	35	2.20	+1.56	0.94	0	5	18	6	6	n.	Southern Pacific Co.								
Sisson.....	188	39	66.1	+0.6	83	10†	51	18	.....	0.10	+0.05	0.10	0	1	19	0	11	.....	Do.						
Soledad **.....	1,825	2	66.4	.....	89	21	46	27	37	0.18	-0.13	0.18	0	1	19	11	0	w.	Chas. P. Jones.							
Sonora.....	30	10	54.6	+2.3	62	23	49	6	10	0.02	-0.14	0.02	0	1	14	7	9	nw.	U. S. Weather Bureau.								
Southeast Farallon.....	4,000	6	59.8	.....	85	30	34	10	37	0.85	.....	0.30	0	5	23	1	6	.....	D. L. Wishon.					
Springville.....	5,289	3	56.8	.....	82	21	35	19	29	1.13	.....	0.73	0	2	20	5	5	sw.	A. D. Frantz.						
Squirrel Inn.....	2,140	9	64.6	.....	82	9	40	21	38	1.92	.....	0.78	0	9	20	0	10	n.	Cal. Gas & Electric Co.						
Stanwood.....	3,525	9	64.8	.....	88	19	40	13†	42	0.15	.....	0.10	0	2	15	8	7	.....	Butte County R. R. Co.					
Stirling City.....	23	42	68.0	-1.9	91	29†	49	10	35	0.00	-0.12	0.00	0	0	23	6	1	nw.	State Hospital.								
Stockton (S. H.).....	296	13	69.0	-3.3	97	21	48	20†	43	0.00	-0.01	0.00	0	0	28	0	2	sw.	Santa Fe Co.								
Storey.....	20	33	71.3	+3.0	99	30	45	3†	.....	0.06	-0.16	0.06	0	1	30	0	0	.....	Southern Pacific Co.						
Suisun **.....	7,017	40	48.8	-4.4	67	21	31	27	28	0.05	-0.59	0.05	0.5	1	8	0	22	s.	L. S. Lorenzen.								
Sulphur Banks.....	4,175	24	61.9	-0.5	92	4	36	20	52	2.17	+1.67	1.40	0	7	12	8	9	.....	Southern Pacific Co.							
Summit.....	26	66.8	-2.6	80	6†	40	10	0.52	+0.44	0.42	0	2	30	11	7	10	13	sw.	C. M. Bentz.							
Tamarack.....	3,964	26	66.8	-2.6	80	6†	40	10	0.52	+0.44	0.42	0	2	23	3	3	4	Cal. Gas & Electric Co.							
Tehachapi **.....	220	42	74.2	-3.4	99	1	54	10	0.45	+0.18	0.30	0	3	23	3	3	4	s.	Southern Pacific Co.							
Tehama.....	1,500	10	.....	.....	96	30	48	20	42	0.56	.....	0.37	0	2	8	20	2	sw.	Do.					
Tejon Rancho.....	870	3	69.9	.....	96	30	48	20	42	0.56	.....	0.37	0	2	8	20	2	sw.	S. E. Bailey.						
Three Rivers.....	3,704	27	64.4	+1.4	81	22	46	8	26	0.47	-0.56	0.40	0	4	22	6	2	ne.	J. H. Pierce.								
Towle.....	64	33	76.0	+0.1	96	30	60	8†	.....	0.00	-0.17	0.00	0	0	21	7	2	.....	Southern Pacific Co.						
Tracy **.....	620	20	64.4	-1.0	92	29	39	10	45	0.03	-0.31	0.03	0	1	18	11	1	nw.	Do.								
Ukiah.....	1,350	28	64.0	-2.7	91	29	37	10	44	0.01	-0.24	0.01	0	1	21	7	2	sw.	Dr. Geo. McCowen.								
Upper Lake.....	175	25	68.4	-2.6	97	20†	40	10	50	T.	-0.16	T.	0	0	18	14	0	sw.	C. M. Hammond.								
Vacaville.....	673	24	71.1	-3.0	97	20	57	10	.....	0.00	-0.27	0.00	0	0	20	10	0	.....	G. O. Coburn.						
Valley Springs **.....	334	25	63.4	-9.9	85	30	37	1	39	0.28	+0.18	0.28	0	1	30	0	0	ne.	Southern Pacific Co.								
Visalia.....	3,185	5	63.6	.....	92	21	39	10	39	0.13	.....	0.13	0	1	22	8	0	.....	Santa Fe Co.					
Warner Springs.....	336	13	78.1	+3.1	109	24	54	2	41	0.00	.....	0.00	0	0	30	0	0	nw.	Mrs. F. S. Sandford.							
Wasco.....	23	17	60.8	-1.6	97	22	36	10	50	0.16	+0.02	0.07	0	3	11	12	7	w.	Santa Fe Co.								
Watsonville.....	1,612	1	61.0	.....	89	2	37	10†	40	0.93	+0.16	0.33	0	8	11	15	4	.....	Spreckels Sugar Co.						
Weaverville.....	1,700	3	59.0	.....	89	1	37	9	38	2.46	.....	0.94	0	9	12	14	4	s.	U. S. Forest Service.						
Weitchpec.....	90	24	75.7	-1.9	96	21	50	15	.....	0.00	-0.06	0.00	0	0	28	0	2	.....	M. E. Lathrop.						
Westley **.....	84	26	69.8	-1.6	94	30	48	10	37	0.09	-0.19	0.07	0	2	16	8	6	s.	S. J. Walker.								
Wheatland.....	136	34	73.4	-3.5	97	12	47	10	44	0.92	+0.74	0.87	0	3	27	3	3	s.	E. C. Mills.								
Willows.....	66.4	.....	.....	.....	98	21†	40	19	52	0.10	.....	0.07	0	2	12	11	7	w.	Yorba Linda.				
Yosemite.....	3,945	9	54.3	.....	87	21†	22	10	59	3.01	.....	0.95	0	9	16	3	11	s.	J. P. Kelly.						

^{a, b, c, etc.}, indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

DISTRICT No. 11. CLIMATOLOGICAL SUMMARY.

JUNE, 1913

TABLE 2.—*Daily precipitation for June, 1913. District No. 11, California.*

Stations.	Watershed.	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	Total.	
Oregon.																																	
Klamath Agency	Klamath																																2.54
Klamath Falls	do	.03																														3.22	
Lakeview	Pitt.	T.	T.	T.	.09																												
Merrill	Int. drainage																																
Vistillas	Pitt.	.27		.26																													2.77
Yonna	Int. drainage																																1.72
California.																																	
Aguanga	Coast																																0.05
Alfuras	Sacramento	.04																															2.20
Angels Camp	San Joaquin																																0.10
Angiola	do																																0.20
Antelope Valley	do																																0.70
Antioch	do																																0.09
Aptos	Coast																																0.25
Arrowhead Springs	do																																1.10
Auburn	Sacramento																																0.00
Avalon	Ocean	T.		.01																													0.09
Azusa	Coast																																0.47
Bagdad	Desert																																0.00
Bakersfield	San Joaquin																																0.36
Barstow	Desert																																0.05
Bear River	San Joaquin																																
Bear Valley	do																																0.63
Bear Valley Dam	do																																
Beaumont	do																																0.17
Beaumont (near)	do																																0.32
Belotta	do																																0.00
Ben Lomond	Coast																																0.18
Berkeley	do																																T.
Betteravia	do																																0.36
Biggs	Sacramento	.03																															0.11
Bishop	Owens																																0.00
Bishop Creek	Coast	T.	1.00	T.	T.	T.	T.	T.																								2.75	
Blocksburg	Sacramento																																2.23
Blue Canon	Desert																																0.00
Blythe	Coast																																0.00
Boulder Creek	do																																0.11
Bownmans Dam	Sacramento	T.	.13	.19	.27	.45																										1.36	
Branscomb	Coast	T.																															0.86
Brawley	Desert																																0.00
Burney	Sacramento	.24		T.																													2.78
Butte Valley	do																																
Cahuilla	Coast																																0.10
Calexico	Desert																																0.10
Caliente	San Joaquin																																0.11
Calistoga	Coast																																0.20
Campbell	do																																T.
Camptonville (near)	Sacramento	.03	T.																														0.61
Cedarville	Mountain Lakes	T.		T.																													0.00
Chester	Sacramento	.09		.30	T.	T.																										3.53	
Chico	do																																0.01
Chico (near)	do																																1.23
China Flat	Coast	.13	.07																														1.09
Chino	do																																0.20
Cisco	Sacramento	.01		.02	.10																											0.63	
Claremont	Coast	.01		.01																													0.16
Cloverdale	do																																0.13
Coalinga	San Joaquin																																0.00
Colfax	Sacramento																																0.00
Colusa	do																																0.12
Corning	do																																0.71
Corona	Coast																																0.71
Cuyamaca	do																																0.07
Davisville	Sacramento																																0.00
Deer Creek	do																																0.00
Del Monte	Coast																																2.41
Delta	Sacramento																																0.10
Denair	San Joaquin																																1.51
De Sabla	Sacramento																																0.07
Descanso	Coast																																0.00
Devils Canon	do																																1.56
Dinuba	San Joaquin	.19		.05	.01																											0.47	
Downieville	do	.42																															1.54
Dudley	San Joaquin																																0.70
Dudley	do					</td																											

TABLE 2.—*Daily precipitation for June, 1913. District No. 11—Continued.*

Stations.	Watershed.	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—Contd.																																	
Fresno	San Joaquin...	.04								T.																							.10
Friant	do																																.10
Galt	do																																.06
Georgetown	do																																.95
Gilroy	Coast...																																.47
Gilta	do	.25	.67																														.58
Glenn Ranch	San Joaquin...									T.																							.10
Glenville	Coast...									T.																							.10
Glenwood	Coast...									T.																							.10
Gold Run	Sacramento...									T.																							.10
Gonzales	Coast...									T.																							.10
Grass Valley	Sacramento...	.36								T.																							.88
Greenland Ranch	Desert...									T.																							.00
Greenville	Sacramento...									T.																							.20
Gridley	do									T.																							.22
Groveland	San Joaquin...									T.																							.18
Guinda	San Joaquin...									T.																							.04
Hanford	San Joaquin...									T.																							.18
Head Dam	Sacramento...	.20	.02							T.																							.83
Healdsburg	Coast...									T.																							T.
Hearst	do	.05	.42							T.																							.00
Heber	Desert...									T.																							.30
Helen Mine	Coast...									T.																							.17
Hetch Hetchy	San Joaquin...	.07	.27	.04	.17	.35	.21		T.																							.18	
Holcomb	Coast...									T.																							.17
Hollister	do									T.																							.17
Hornbrook	Klamath...									T.																							.26
Hot Springs	San Joaquin...	.09	.13							T.																							.77
Hullville	Coast...	.03	.10	.01						T.																							.10
Hyampon	do									T.																							.15
Independence	Owens	.14	.01	.04						T.																							.21
Indian Wells	Desert...									T.																							.00
Indio	do									T.																							.00
Inskip	Sacramento...	.10								T.																							.93
Ione	San Joaquin...									T.																							.00
Jacksonville	do									T.																							.11
Jamestown	do									T.																							.00
Jenny Lind	do									T.																							.00
Jolon	Coast...									T.																							.14
Julian	do									T.																							.55
Kennedy Mine	San Joaquin...									T.																							.00
Kennett	Sacramento...	.05								T.																							.71
Kentfield	Coast...									T.																							.18
Kernville	San Joaquin...									T.																							.23
King City	Coast...									T.																							.18
Knights Landing	Sacramento...									T.																							.18
La Grange	do									T.																							.00
La Jolla	Coast...									T.																							.62
Lake Eleanor	San Joaquin...									T.																							.29
Lakeside	Coast...									T.																							.29
Lake Spaulding	Sacramento...	.40	T.	.01	T.					T.																						.10	
Le Porte	do									T.																							.00
Lathrop	San Joaquin...									T.																							.00
Laurel	Coast...									T.																							.20
Le Grand	San Joaquin...									T.																							.10
Lemon Cove	do									T.																							.46
Lick Observatory	Coast...									T.																							.07
Livermore	do									T.																							.07
Lone Pine	Owens	.05	.07	.10	.02	.05	T.	T.		T.																						.29	
Long Valley	Mountain Lakes									T.																							.47
Lordsburg	Coast...									T.																							.47
Los Alamos	do									T.																							.06
Los Angeles	do									T.																							.39
Los Banos	San Joaquin...									T.																							.06
Los Gatos	Coast...									T.																							.06
Los Molinos	Sacramento...									T.																							.06
Lowe Observatory	Coast...									T.																							.65
McCloud	Sacramento...									T.																							.77
Madelaine	Klamath...									T.																							.71
Magalia	Sacramento...									T.																							.52
Mammoth Tank	San Joaquin...									T.																							.52
Maricopa	San Joaquin...									T.																							.38
Marietta	do									T.																							.38
Marysville	Sacramento...									T.																							.64
Mecita	Desert...		</																														

JUNE, 1913

TABLE 2.—*Daily precipitation for June, 1913. District No. 11—Continued.*

JUNE, 1913.

DISTRICT NO. 11. CLIMATOLOGICAL SUMMARY.

11

TABLE 2.—*Daily precipitation for June, 1913. District No. 11—Continued.*

Stations.	Watershed.	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				
<i>California—Contd.</i>																																			
Upper Mattole.....	Coast.....								.04																								0.86		
Vacaville.....	Sacramento.....																																T.		
Valley Springs.....	San Joaquin.....																																0.00		
Visalia.....	do.....																																0.28		
Warner Springs.....	Coast.....																																0.13		
Wasco.....	San Joaquin.....																																0.00		
Watsonville.....	Coast.....								.03																								0.16		
Weaverville.....	T. do.....									T.																							0.93		
Weitchpec.....	Klamath.....									T.																							2.46		
West Branch.....	Sacramento.....										20																						1.49		
Westley.....	San Joaquin.....																																0.00		
West Point.....	do.....																																		
West Saticoy.....	Coast.....																																	0.09	
Wheatland.....	Sacramento.....									T.																							0.92		
Willows.....	do.....									T.																								0.10	
Yorba Linda.....	Coast.....																																	3.01	
Yosemite.....	San Joaquin.....	49	.04	.18	.09	.05	.70																												

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| 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.

DISTRICT NO. 11. CLIMATOLOGICAL SUMMARY.

JUNE, 1913.

TABLE 3.—Maximum and minimum temperatures for June, 1913. District No. 11, California.

Date.	Lakeview, Oreg.		California.																									
			Alturas.		Barstow.		Brawley.		Colusa.		Eureka.		Fresno.		Independ-		Los		Mount		Nevada		Porter-					
	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.....	77	45	86	43	94	58	80	46	96	64	89	58	51	67	73	48	64	55	65	49	83	54	68	58	95	69		
2.....	79	46	85	45	92	60	78	45	97	60	87	56	49	89	59	72	52	62	55	65	49	79	46	93	57	88	62	
3.....	77	46	86	42	90	54	81	45	96	67	87	56	54	50	90	61	80	50	64	55	69	55	81	47	92	63	90	62
4.....	75	45	82	46	87	56	85	44	93	64	87	56	54	47	89	60	79	52	68	56	69	52	80	48	92	63	90	62
5.....	76	43	85	42	88	54	80	45	95	64	89	57	56	45	91	59	78	54	69	55	68	57	80	50	94	61	92	66
6.....	77	45	81	49	90	50	75	40	96	74	85	55	53	47	93	61	79	53	72	56	68	52	81	54	94	63	90	65
7.....	71	50	80	52	91	54	70	39	98	63	79	51	64	49	87	54	81	50	70	55	58	48	75	46	91	60	79	52
8.....	62	40	69	43	88	50	65	39	97	62	78	50	58	49	77	56	80	48	66	56	59	42	66	42	91	61	70	61
9.....	55	36	60	41	75	48	70	35	86	51	79	49	56	47	72	53	68	56	65	54	51	41	67	45	74	54	72	52
10....	63	35	68	43	77	50	73	38	83	59	80	49	57	46	77	50	70	45	68	52	64	43	72	35	78	48	84	50
11....	71	34	77	38	87	51	75	40	91	61	86	49	60	50	86	56	82	45	72	53	71	52	79	34	87	56	89	58
12....	74	42	80	42	93	52	70	40	97	58	91	58	63	52	93	65	85	48	76	53	69	52	85	41	96	61	91	65
13....	67	49	73	46	97	60	71	38	98	72	87	55	60	50	89	60	88	54	71	57	55	45	73	44	94	60	82	63
14....	64	39	72	41	96	59	72	35	98	64	78	50	60	46	84	53	89	50	74	57	62	43	77	37	94	55	82	58
15....	69	41	75	32	95	60	71	37	98	64	84	54	61	48	88	56	87	56	74	57	64	48	79	36	94	54	85	58
16....	70	37	79	36	91	55	72	39	96	63	85	55	59	50	86	51	86	51	69	57	68	51	79	38	85	53	86	57
17....	72	39	79	38	95	51	60	39	97	75	86	57	61	48	89	58	86	51	72	56	65	47	77	41	92	54	84	62
18....	70	37	74	36	95	50	58	38	101	63	77	54	59	51	85	57	86	52	72	52	76	45	76	41	93	55	76	60
19....	55	37	65	37	91	56	64	45	103	64	76	54	62	51	82	57	86	55	77	56	60	44	71	46	93	54	74	56
20....	69	30	80	29	96	60	73	40	104	63	89	56	63	47	90	54	88	56	83	58	70	55	82	34	90	52	87	55
21....	71	42	79	43	101	63	73	45	107	67	89	65	65	54	96	60	92	58	85	59	71	57	84	44	98	55	88	67
22....	65	47	72	53	101	65	65	45	102	68	87	68	65	57	86	65	90	56	76	57	62	53	80	50	99	57	82	66
23....	65	43	71	52	90	64	66	43	100	62	85	60	64	57	87	61	88	58	74	62	52	77	54	93	59	86	64	
24....	57	46	64	51	95	65	67	44	100	65	82	60	61	55	86	61	88	59	72	60	56	47	72	53	91	60	78	66
25....	58	41	64	45	85	60	63	38	95	69	80	60	61	52	79	57	81	55	66	60	55	46	85	56	75	58	82	68
26....	59	41	63	43	83	60	62	40	92	66	75	58	61	52	69	56	76	56	67	57	55	45	64	45	84	58	67	54
27....	53	39	58	43	82	58	61	41	90	66	73	55	61	55	77	54	71	48	70	57	58	46	66	40	81	56	72	56
28....	60	42	66	46	92	59	74	40	93	59	85	53	61	55	84	54	77	42	73	57	70	51	76	37	84	50	83	58
29....	68	38	77	39	93	58	78	44	100	64	90	55	62	58	93	60	82	48	90	61	78	60	86	44	96	53	91	64
30....	71	43	78	46	98	60	80	45	106	62	92	60	64	56	97	64	92	55	87	62	74	60	89	44	100	56	92	66
Mns.	67.3	41.3	74.3	42.7	90.9	56.7	71.1	41.1	96.8	64.1	98.3	55.8	59.9	50.7	86.0	58.1	82.0	52.0	72.3	56.4	63.8	49.6	76.7	43.9	90.0	56.7	83.3	60.4

Date.	California.																								
	Redlands.		Sacramento.		San Diego.		San Fran-		San Jose.		San Luis		Santa Bar-		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		
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.....	69	50	76	57	63	57	59	51	75	53	67	52	60	54	67	52	81	46	81	57	58	40	-----	80	29
2.....	71	53	81	54	63	58	60	51	74	56	66	54	59	54	68	52	80	50	81	54	59	40	-----	82	30
3.....	74	56	80	54	65	56	61	51	75	55	67	54	62	55	66	54	83	54	84	42	42	-----	78	30	
4.....	71	56	81	53	66	58	61	51	76	54	62	54	62	56	66	54	84	56	85	58	40	-----	79	30	
5.....	73	53	80	53	66	58	59	50	77	53	62	53	61	55	67	56	85	56	81	56	56	41	-----	80	30
6.....	51	52	75	52	66	60	55	50	71	51	66	53	60	57	72	49	77	51	83	54	57	-----	80	30	
7.....	52	51	76	49	65	59	61	51	68	51	66	52	60	50	75	49	75	50	81	57	57	43	-----	79	29
8.....	75	53	70	52	63	58	59	51	67	52	66	50	64	53	74	42	66	45	70	55	57	38	-----	78	26
9.....	67	53	69	48	64	58	59	51	65	42	60	52	66	50	72	36	67	42	80	50	48	34	-----	76	30
10....	71	51	77	52	68	56	61	51	70	42	72	46	68	51	79	41	63	36	81	51	61	42	-----	80	28
11....	82	45	84	52	65	56	64	50	78	45	68	44	68	45	78	42	72	43							

Total Precipitation, June, 1913.



Departure of the Mean Temperature from the Normal, June, 1913.

