

AUGUST, 1920.

CLIMATOLOGICAL DATA: CALIFORNIA SECTION.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CALIFORNIA SECTION.

EDWARD A. BEALS, METEOROLOGIST.

Vol. XXIV. SAN FRANCISCO, AUGUST, 1920. No. 8.

GENERAL SUMMARY.

Hot and dry weather prevailed throughout California during the first half of August, and cool and dry weather during the latter half. Fog was of frequent occurrence along the coast, while sunshine was abundant in the interior valleys. During the hot spell of the first half of the month, temperatures of 110° or higher were common in the Sacramento and San Joaquin Valleys. At Greenland Ranch, in Death Valley, the temperature rose above 100° on 27 days. In the mountain regions violent thunderstorms were of frequent occurrence. The Forest Service is authority for the statement that 235 forest fires were caused by lightning in a series of extremely violent storms which passed over the mountains of northern California on the 8th. Freakish weather was experienced throughout the State from the 24th to the 26th. Snow fell in the Sierra Nevada Mountains, the greatest amount recorded being one inch at Huntington Lake, Fresno Country, altitude 7,000 feet. Electrical storms accompanied by wind and hail occurred in the valleys. At Indio, Riverside County, where heavy rain is a rare phenomenon, precipitation amounting to 3.61 inches fell in seven hours on the morning of the 24th. This downpour damaged roads and caused a washout on the railway. However, the larger streams of the State maintained abnormally low stages. Because of the water shortage, hydroelectric power was insufficient to meet the demand, and restrictions in its use had to be put into practice. There was a shortage of irrigation water in many portions of northern California.

The hot spell benefited citrus fruits, grapes, corn, sugar beets and rice, but injured the quality of deciduous fruit through too rapid maturity. Prunes and apricots were of uneven quality, and almonds were light in weight, due to the prolonged drought. Beans and vegetables grown in the interior valleys were damaged by heat and drought, and pastures and ranges deteriorated. Drying fruit suffered no injury from rainfall. Oranges and lemons continued to make excellent progress, but the condition of cotton was below that of last year. Some rice fields were abandoned because of water shortage. However, favorable weather conditions offset in large measure the unfavorable features, and the agricultural situation was generally good at the close of month. A great variety of crops was harvested under satisfactory weather conditions. While the total yield will probably not be as large as that of last year, owing to deficient precipitation during the preceding winter and spring, it is probable that the agricultural year as a whole will be considered satisfactory.

A. H. P.

Daily evaporation (inches) and wind movement (miles) for August.

Stations.	Data.	Day of Month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Chula Vista**	Evaporation.....	.216	.248	.246	.250	.294	.273	.214	.212	.253	.276	.274	.141	.232	.227	.245	.281	.285	.165	.141	.260	.248	.270	.241	.238	.278	.271	.253	.236	.240	.228	.204	7.418
	Wind movement.....	.99	.83	.540	.100	.188	.130	.99	.101	.99	.114	.130	.92	.108	.72	.120	.110	.109	.131	.94	.106	.110	.117	.135	.116	.107	.134	.127	.92	.97	.115	.96	3.368
Dodge Land**	Evaporation.....	.330	.291	.292	.397	.312	.383	.114	.292	.301	.248	.387	.330	.203	.288	.460	.323	.318	.295	.305	.224	.136	.326	.150	.253	.225	.148	.246	.223	.226	.221	.322	8.414
	Wind movement.....	.33	.16	.22	.29	.45	.18	.22	.25	.27	.12	.19	.20	.19	.27	.19	.8	.15	.29	.14	.15	.34	.21	.36	.17	.57	.54	.35	.8	.13	.43	.28	7.70
Oakdale (near)*	Evaporation.....	.480	.560	.564	.487	.440	.483	.514	.508	.468	.424	.512	.453	.592	.551	.670	.617	.549	.390	.373	.386	.436	.378	.447	.154	.254	.155	.315	.380	.350	.413	.15	.990
	Wind movement.....	.85	.105	.101	.105	.153	.125	.95	.110	.120	.7	.100	.100	.95	.110	.120	.125	.110	.130	.115	.175	.155	.172	.193	.150	.120	.40	.115	.125	.105	.80	3.635	
Tahoe**	Evaporation.....	.210	.230	.281	.260	.250	.170	.150	.240	.360	.320	.240	.240	.220	.280	.290	.250	.260	.270	.20	.310	.300	.190	.220	.290	.110	.060	.160	.150	.170	.120	.220	7.090
	Wind movement.....	.86	.42	.67	.42	.63	.73	.102	.104	.85	.64	.72	.49	.64	.53	.57	.58	.16	.72	.61	.63	.81	.30	.78	.92	.82	.63	.71	.61	.55	.80	.91	2.073

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

PRESSURE.

The mean sea-level pressure, determined from the records of 12 regular Weather Bureau stations, was 29.91 inches. The highest was 30.21 inches at Eureka on the 27th; the lowest was 29.64 inches at Red Bluff on the 17th; the range for the State was 0.57 inch.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 98 stations, was 73.4° , which is 0.6° above the normal.

The highest monthly mean was 98.8° , at Greenland Ranch; and the lowest was 51.8° , at Point Reyes.

The highest temperature, 124° , occurred at Greenland Ranch on the 7th; and the lowest, 39° , occurred at Portola on the 19th.

The range for the State was 94° .

PRECIPITATION.

The average precipitation for the State, as shown by the records of 249 stations, was 0.25 inch, or 0.17 inch above the normal.

The greatest monthly amount was 3.61 inches, at Indio. No rain fall at 73 stations.

The greatest amount in 24 hours was 3.61 inches at Indio on the 24th.

RELATIVE HUMIDITY, SUNSHINE AND CLOUDINESS.

Stations.	Relative humidity Per cent.			Sunshine.	
	5 a.m.	5 p.m.	Mean.	Actual No. of hours	Per cent of possible.
Eureka.....	94	81	88	222	52
Fresno.....	50	18	34	403	96
Independence.....	41	20	30	359	85
Los Angeles.....	85	58	72	320	77
Mount Tamalpais.....	51	42	46	381	90
Red Bluff.....	51	18	34	392	92
Sacramento.....	73	27	50	400	94
San Diego.....	86	72	79	333	81
San Francisco.....	95	84	90	336	80
San Jose.....	51	24	35	350	86
San Luis Obispo.....	91	54	72	314	75

WIND MOVEMENT.—(Miles.)

Stations.	Total mov. for month.	Ave. velocity.	Maximum velocity.	Direction.	Prev dir.	
					Date.	Dir.
Eureka.....	3,972	5.3	30	n.	18	sw.
Fresno.....	781	7.7	20	nnw.	24	nnw.
Independence.....	905	5.2	22	s.	21	s.
Los Angeles.....	3,951	5.3	18	dw.	27	sw.
Mount Tamalpais.....	11,695	15.7	64	dw.	25	dw.
Point Reyes.....	12,566	16.9	58	nnw.	28	nnw.
Red Bluff.....	3,363	4.5	21	dww.	25	se.
Sacramento.....	5,808	7.8	23	s.	24	s.
San Diego.....	4,624	6.2	19	nnw.	7	nnw.
San Francisco.....	9,694	13.0	40	w.	6	sw.
San Jose.....	4,501	6.0	24	sw.	19	nnw.
San Luis Obispo.....	2,631	3.5	17	nnw.	27	nw.

COMPARATIVE DATA FOR AUGUST.

Year	Mean temp.	Ave. precip.	Year	Mean precip.	Ave. temp.	Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.
1897....	.73.6	.0.05	1903....	.72.6	.0.02	1909....	.72.1	.0.19	1915....	.74.2	.0.06
1898....	.74.5	.0.02	1904....	.73.9	.0.17	1910....	.72.5	.0.01	1916....	.73.2	.0.20
1899....	.70.8	.0.11	1905....	.73.4	.0.03	1911....	.70.1	.0.09	1917....	.72.5	.0.04
1900....	.71.0	.0.02	1906....	.75.6	.0.13	1912....	.70.2	.0.06	1918....	.71.4	.0.14
1901....	.75.6	.0.12	1907....	.71.0	.0.11	1913....	.74.5	.0.30	1919....	.72.1	.0.03
1902....	.71.8	.0.06	1908....	.73.3	.0.12	1914....	.72.1	.0.02	1920....	.73.4	.0.25

CLIMATOLOGICAL DATA: CALIFORNIA SECTION.

AUGUST, 1920.

Stations.		Counties.		Elevation, feet.	Length of record, years.	Climatological Data for August, 1920.						Number of days.		Prevailing direction of wind.		Observers.					
						Temperature, in degrees Fahr.			Precipitation, in inches.												
		Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Snowfall (unmelted).	Precipitation, in inches or more.	Clear.	Partly cloudy.	Cloudy.					
Antioch	Contra Costa	46	41	75.3	+0.8	106	16	52	31	47	0	-0.02	0	0	22	9	0	e.	C. G. McDaniel.		
Atascadero	San Luis Obispo	837	4	68.4	-1.8	105	12	37	27	58	0	-0.01	0	0	26	5	0	sw.	Colony Holding Corp.		
Bakersfield	Kern	404	31	81.2	-1.8	109	14	55	28	42	T.	-0.01	0	0	24	6	1	nw.	Santa Fe Co.		
Barstow	San Bernardino	2,105	17	81.6	-1.2	108	12	52	26	42	.53	+.38	.53	0	1	23	2	1	w.	E. L. White.	
Benkeley	Alameda	317	33	63.5	+2.6	85	30	51	3	30	0	-0.05	0	0	22	28	3	0	State University.		
Blue Canon	Placer	4,695	21	64.7	+0.8	97	8	41	23	47	.75	+.66	.60	0	2	30	2	2	sw.	Southern Pacific Co.	
Blythe	Riverside	268	11	89.6	-1.6	116	76	56	25	43	.55	-0.35	0	0	4	27	2	2	sw.	Palo Verde Water Co.	
Bonita	San Diego	110	4	72.6	-1.8	93	94	53	28	32	T.	-0.01	0	0	0	26	4	1	w.	R. M. Allen.	
Branscomb	Mendocino	2,000	26	67.4	+2.1	102	16	40	28	39	.35	+.31	.18	0	3	27	3	1	u.	A. J. Haun.	
Brawley	Imperial	-105	10	88.2	-1.2	112	66	59	26	39	.28	-0.28	0	1	0	0	0	0	sw.	M. D. Witter.	
Calexico	Imperial	0	16	87.8	-1.8	111	12	58	27	36	1.05	+.35	.35	0	2	22	3	6	w.	H. M. Rouse.	
Chico	Butte	189	50	78.1	-3.4	111	14	52	20	51	T.	-0.07	+.05	0	1	28	1	2	se.	U. S. Bureau Plant Ind.	
Chula Vista	San Diego	9	2	68.2	-1.6	78	16	55	27	14	T.	-0.01	0	0	0	0	0	0	uw.	Western Salt Works.	
Claremont	Los Angeles	1,200	28	74.6	-1.6	104	13	45	27	44	0	-0.05	0	0	0	28	1	2	s.	Prof. F. P. Brackett.	
Cloverdale	Sonoma	340	18	68.9	-1.2	105	15	45	23	49	.06	+.06	.05	0	1	27	0	4	w.	John O. Ogle.	
Colfax	Placer	2,421	49	75.7	-0.8	103	15	48	26	32	.35	+.33	.35	0	1	28	1	2	se.	Southern Pacific Co.	
Colusa	Colusa	60	17	77.4	+2.9	109	14	53	23	44	.01	0	.01	0	1	27	2	2	se.	E. A. Houchins.	
Crescent City	Riverside	615	6	82.8	-1.2	110	9	61	16	45	0	-0.01	0	0	0	28	5	0	sw.	Edwin T. Brink.	
Davis	Del Norte	125	6	61.4	+5.2	89	31	43	23	40	1.34	+.82	.78	0	3	30	1	0	nw.	Thos. E. Peacock.	
Dodgeland	Yolo	51	48	77.7	+3.6	114	14	50	2	53	0.04	+.03	.04	0	1	28	3	1	sw.	Prof. S. H. Beckett.	
Durham	Butte	125	2	78.6	-1.6	108	15	54	27	44	.01	-0.01	0	0	1	25	4	2	s.	Dodge Land Co.	
El Cajon	San Diego	160	25	74.4	-0.7	100	13	39	18	46	1.41	+1.20	1.30	0	4	13	12	6	sw.	R. W. Durham.	
Elsinore	Riverside	482	21	74.4	+0.9	101	14	49	28	42	0	-0.11	0	0	0	28	3	0	sw.	Eugene P. Kessler.	
Escondido	San Diego	1,300	4	80.0	-1.8	109	8	52	25	45	0	-0.08	0	0	0	22	7	2	ne.	W. L. Whiteme.	
EUREKA	Humboldt	742	26	73.4	+1.2	98	15	48	38	41	0	-0.08	0	0	0	22	7	2	w.	H. L. Harlow.	
Folsom	Sacramento	64	34	56.1	+0.3	68	27	47	27	21	.49	+.39	.41	0	2	9	13	9	sw.	U. S. Weather Bureau.	
Fontana	San Bernardino	252	47	77.2	-0.5	108	14	53	1	45	.04	+.02	.04	0	1	29	0	2	n.	Mrs. G. I. Marvin.	
Fort Bidwell	Modoc	4,375	31	70.0	-0.7	100	13	39	18	46	1.41	+1.20	1.30	0	4	13	12	6	sw.	Fontana Land Co.	
FRESNO	Fresno	293	38	81.5	+0.3	116	16	56	27	37	.15	+.15	.15	0	1	28	3	0	sw.	C. R. Decious.	
Grass Valley	Nevada	2,690	48	75.6	-1.6	101	14	48	26	34	.37	+.33	.37	0	1	28	1	4	sw.	U. S. Weather Bureau.	
Greenland Ranch	Inyo	-178	9	98.8	-1.2	124	7	82	11	33	.10	-0.08	0	0	0	22	7	2	ne.	O. A. Denton.	
Hanford	Kings	249	20	80.6	-3.1	110	14	52	27	42	T.	-0.01	0	0	0	27	0	4	se.	Santa Fe Co.	
Healdsburg	Sonoma	110	27	68.4	+1.9	100	15	55	25	47	T.	-0.01	T.	0	0	28	12	18	1	w.	Dr. F. J. Kinley.
Hollister	San Benito	254	46	66.2	-0.5	93	16	48	27	42	T.	-0.04	T.	0	0	28	3	0	w.	Grangers' Union.	
INDEPENDENCE	Inyo	3,957	24	76.6	+0.2	102	14	47	27	37	.77	+.67	.77	0	1	26	4	1	s.	U. S. Weather Bureau.	
Indio	Riverside	-20	42	89.6	-3.4	116	16	56	27	35	3.61	+3.44	3.61	0	1	22	7	2	se.	U. S. Bureau Plant Ind.	
Inskip	Butte	4,975	19	69.2	-1.6	92	13	41	26	25	.21	-0.18	.18	0	2	25	1	4	sw.	Pacific Gas & Electric Co.	
Kennett	Shasta	730	8	82.0	-1.6	115	14	53	26	49	.48	-0.43	.43	0	2	29	1	1	sw.	Mammoth Copper Mine.	
La Porte	Plumas	5,000	26	60.6	-0.7	87	12	38	2	42	.50	+.38	.32	0	2	27	2	2	s.	C. W. Hendel.	
Lemon Cove	Tulare	600	25	79.7	-0.3	110	14	54	21	44	.19	+.19	.19	0	1	29	2	0	sw.	T. E. Bence.	
Lick Observatory	Santa Clara	4,209	31	71.2	+1.8	95	15	39	26	29	.02	-0.02	0	0	1	26	9	0	n.	Lick Observatory.	
Lindsay	Tulare	384	6	79.5	-1.6	111	14	51	26	48	.04	-0.04	0	0	1	22	9	0	sw.	Basil Prior.	
Lone Pine	Inyo	3,725	15	72.4	-0.7	92	15	57	27	47	0	-0.08	0	0	0	28	2	2	sw.	G. F. Marsh.	
LOS ANGELES	Los Angeles	293	43	72.4	+0.9	102	12	50	26	49	.15	-0.15	.15	0	1	25	0	6	s.	U. S. Weather Bureau.	
McCloud	Stanislaus	3,270	10	67.8	-1.8	100	12	39	26	49	.15	-0.01	T.	0	0	28	1	2	s.	McCloud River Lbr. Co.	
Marysville	Yuba	67	49	77.5	-1.4	111	14	58	25	47	T.	-0.01	T.	0	0	22	3	3	sw.	Southern Pacific Co.	
Mecca	Riverside	-185	14	89.8	+1.0	115	6	62	27	36	1.30	+.75	1.22	0	2	25	3	3	se.	Cooperative Date Garden.	
Merced	Merced	173	46	78.9	-0.4	110	15	53	25	45	.06	+.04	.03	0	0	28	2	1	nw.	Santa Fe Co.	
MOUNT TAMALPAIS	Marin	2,375	21	69.6	+3.7	96	13	46	22	27	0	-0.01	0	0	0	25	5	0	sw.	U. S. Weather Bureau.	
Mount Wilson	Los Angeles	5,704	3	70.9	-0.7	95	13	38	27	34	T.	-0.02	T.	0	0	24	4	3	sw.	Solar Observatory.	
Napa	Napa	20	43	66.3	-0.7	96	6	44	23	47	T.	-0.02	T.	0	0	26	2	3	sw.	State Hospital.	
Needles	San Bernardino	477	28	89.8	-2.9	116	12	60	27	39	.10	-0.49	.10	0	1	23	2	6	sw.	Santa Fe Co.	
Nevada City	Nevada	2,850	50	68.3	+0.2	101	15	42	6	51	.59	+.55	.51	0	2	26	2	3	sw.	B. H. Preston.	
Newman	Stanislaus	91	31	76.4	-3.8	102	16	48	25	45	.03	+.01	.03	0	0	28	0	3	sw.	E. S. Wangenheim.	
Oroville (near)	Plumas	250	36	78.0	-0.6	111	16	50	26	49	.12	-0.12	.12	0	2	28	0	3	sw.	S. San Joaquin Irr. Dist.	
Pasadena	Los Angeles	805	30	73.7	+0.2	98	17	48	27	40	0	-0.02	0	0	0	24	5	2	sw.	Chabot Observatory.	
Paso Robles	San Luis Obispo	800	33	71.4	+1.2	112	13	45	23	55	0	-0.07	0	0	0	24	3	4	sw.	W. H. Duncan.	
Petaluma	Sonoma	9	6	68.4	-0.5	95	30	46	21	41	0	-0.01	0	0	0	31	0	0	w.	U. S. Rec. Service.	
PIACERVILLE	El Dorado	1,925	31	71.6	+1.7	104	14	46	29	49	.01	-0.03	.01	0	0	27	1	3	sw.	N. R. Heberle.	
POINT REYES	Marin	490	28	54.8	+0.2	102	14	47	22	41	T.	-0.03	T.	0	0	27	1	3	sw.	Morris S. Jones.	
Pomona	Los Angeles	857	6	74.1	-1.6	102	13	42	27	46	0	-0.02	0	0	0	28	2	2	sw.	Mrs. A. Z. Campbell.	
Porterville	Tulare	464	31	79.4	-3.2	109	14	51	28	49	.15	+.14	.15	0	1	28	2	1	se.	John Landis.	
Portola	Plumas	4,832	5	61.8	-2.1	96	14	30	19	50	.07	-0.07	.07	0	1	26	5	0	sw.	O. E. Bailey.	
RED BLUFF	Tehama	307	43	82.0	+1.0	110	14	54	26	39	.31	+.29	.31	0	1	29	1	1	se.	U. S. Weather Bureau.	
Redding	Shasta	552	45	83.4	+2.4	110	12	53	26	45	.08	+.02	.08	0	1	28	1	2	nw.	J. H. Buick.	
Redlands	San Bernardino	1,352	27	76.4	-0.8	103	14	47	27	41	0	-0.34	0	0	0						

AUGUST, 1920.

CLIMATOLOGICAL DATA: CALIFORNIA SECTION.

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Daily Precipitation for August, 1920.

Stations.	Watersheds.	Day of Month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Antioch	San Joaquin																																0
Atascadero	Coast																																0
Bakersfield	San Joaquin				T.																											.53	
Barstow	Desert																															0	
Berkeley	Coast																															.75	
Blue Canon	Sacramento																															.65	
Blythe	Colorado																															.35	
Bonita	Coast																															.28	
Branscomb	do																															.01	
Brawley	Imperial Valley	T.	T.																													.01	
Calexico	do																															1.05	
Chico	Sacramento																															.07	
Chula Vista	Coast																															T.	
Claremont	do																															.06	
Cloverdale	do																															.35	
Colfax	Sacramento																															.01	
Colusa	do																															0	
Corona	Coast																															0	
Crescent City	do																															1.34	
Davis	Sacramento																															.04	
Dodgeland	do																															.01	
Durham	do																															0	
El Cajon	Coast																															0	
Elsinore	do																															0	
Escondido	do																															.49	
EUREKA ***	do																															.04	
Folsom	Sacramento																															0	
Fontana	Coast																															0	
Fort Bidwell	Mountain Lakes	T.																														1.41	
FRESNO***	San Joaquin																															.15	
Grass Valley	Sacramento																															.37	
Greenland Ranch	Desert																															.10	
Hanford	San Joaquin																															T.	
Healdsburg	Coast																															T.	
Hollister	do																															T.	
INDEPENDENCE***	Owens																															.77	
Indio	Coachella Val																															3.61	
Inskip	Sacramento																															0	
Kennett	do																															.21	
La Porte	do																															.48	
Lemon Cove	San Joaquin																															.50	
Lick Observatory	Coast																															.02	
Lindsay	San Joaquin																															.04	
Lone Pine	Owens																															0	
Los ANGELES***	Coast																															0	
McCloud	Sacramento																															.15	
Marysville	do																															1.30	
Mecca	Coachella Val																															.06	
Merced	San Joaquin																															0	
MR. TAMAALPAIS***	Coast																															T.	
Mount Wilson	do																															T.	
Naples	Colorado	T.																														.10	
Needles	Sacramento																															.59	
Nevada City	San Joaquin																															.03	
Newman	do																															.22	
Oakdale (near)	do																															T.	
Oakland	Coast																															.01	
Ojai	Sacramento																															.12	
Oroville (near)	do																															T.	
Pasadena	Coast																															0	
Paso Robles-1	do																															0	
Petaluma	do																															0	
POINT REYES***	Coast																															T.	
Pomona	do																															.06	
Porterville	San Joaquin																															.07	
Red Bluff***	do																															.31	
Redding	do																															.08	
Redlands	Coast																															0	
Riverside	do			</td																													

Daily Temperature for AUGUST, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Bakersfield.....	Maximum	105	104	104	104	99	100	104	103	103	104	103	105	107	109	109	105	101	96	95	96	93	83	82	78	84	87	92	96	101	98.6		
	Minimum.....	63	64	69	69	66	64	65	66	63	63	67	67	71	74	71	69	66	61	60	60	60	59	57	55	59	61	63	63.9				
Calexico	Maximum	95	99	103	107	110	110	104	105	109	106	110	111	103	102	104	105	103	99	99	100	102	104	103	92	93	90	92	95	93	94	100	101.4
	Minimum.....	82	81	74	74	76	78	82	81	81	79	75	83	76	80	81	70	80	77	66	66	63	73	71	63	68	61	62	65	64	74.1		
Chico	Maximum	101	100	101	97	97	106	104	96	100	105	106	108	108	111	109	108	100	98	89	91	95	93	92	93	83	85	85	92	94	100	98.2	
	Minimum.....	56	54	59	54	53	55	59	56	56	64	64	65	67	67	68	60	55	54	52	53	56	55	58	54	54	54	55	56	57	56.9		
Escondido	Maximum	94	94	94	96	95	96	94	91	93	92	91	91	93	96	98	94	91	93	82	81	85	85	87	73	77	78	81	83	83	87	88.3	
	Minimum.....	63	64	63	58	58	55	56	60	59	60	60	64	59	62	66	59	64	63	62	59	58	62	59	49	50	48	59	63	55	58.5		
Eureka	Maximum	61	62	60	56	60	61	62	62	62	65	64	59	63	63	59	59	61	60	58	56	56	58	56	61	60	59	68	61	66	59	67	60.7
	Minimum.....	56	55	53	50	53	53	52	55	54	53	51	51	49	51	51	51	52	47	48	51	51	51	50	51	53	50	47	52	53	49	51	51.5
Fresno	Maximum	105	102	102	101	97	100	105	100	102	103	104	106	108	109	109	110	102	97	91	91	96	94	94	81	79	76	83	85	92	95	100	97.4
	Minimum.....	68	67	69	65	64	65	69	68	65	67	67	72	75	74	77	73	63	60	59	60	61	57	54	56	56	60	64	62	67	65	75.7	
Independence	Maximum	97	97	90	92	95	96	99	98	95	95	97	101	101	102	101	101	99	95	89	91	93	92	91	74	74	70	78	83	86	89	90	92.0
	Minimum.....	60	65	65	60	60	61	65	69	61	60	66	68	69	68	67	70	65	58	56	58	59	60	58	53	51	47	53	56	59	59	61.1	
Los Angeles	Maximum	88	89	87	88	88	87	82	84	86	87	82	81	87	87	82	90	82	80	78	78	76	78	71	73	78	77	77	78	81.8			
	Minimum.....	68	71	68	64	65	61	64	59	63	64	63	65	63	65	64	62	61	61	62	61	61	59	67	60	62	64	63	68.0				
Merced.....	Maximum	103	100	100	100	95	100	103	98	99	101	104	106	108	109	110	109	109	93	87	90	94	91	92	81	77	83	86	93	95	101	96.6	
	Minimum.....	60	61	60	64	59	59	62	61	60	60	64	70	70	71	73	72	64	58	57	58	58	59	59	54	57	54	54	59	63	61.2		
Mount Tamalpais	Maximum	84	84	77	69	74	87	87	80	83	86	89	88	96	90	90	89	81	75	55	64	61	60	70	70	52	64	66	71	82	87	77.2	
	Minimum.....	72	68	62	56	50	70	70	64	69	72	75	72	81	82	81	78	67	48	46	47	46	46	47	47	47	48	49	55	52	60	66	71.9
Oakland.....	Maximum	70	69	69	63	68	72	80	69	66	70	76	81	83	78	71	76	70	69	66	64	66	66	64	66	64	68	66	62	72	74	79	74.5
	Minimum.....	56	57	52	54	58	54	54	55	55	54	56	56	57	57	56	53	55	55	55	55	55	55	54	57	56	57	60	57	58	55	56.6	
Orland	Maximum	103	100	102	98	103	106	105	105	106	106	111	109	108	110	108	109	101	100	92	90	92	92	85	85	90	93	99	103	98.9			
	Minimum.....	65	61	64	56	64	66	60	59	68	69	69	70	70	71	72	65	64	59	60	57	62	59	56	57	60	60	60	67	70	73	63.2	
Oroville	Maximum	101	101	99	100	96	97	105	104	97	109	104	103	106	107	110	111	109	100	95	99	93	95	92	93	82	83	85	90	93	100	97.8	
	Minimum.....	58	55	55	56	58	56	63	62	65	66	65	66	67	67	68	65	56	54	52	53	55	54	55	50	52	54	56	56	56	58.3		
Paso Robles	Maximum	98	94	90	88	97	103	104	91	91	94	106	108	112	107	104	97	88	72	75	80	83	81	86	76	71	73	83	86	95	91.4		
	Minimum.....	52	49	52	55	48	50	54	46	47	49	51	57	59	63	62	58	55	48	45	46	46	47	45	46	48	53	45	48	51	51.4		
Point Reyes	Maximum	57	56	56	53	59	55	56	60	56	55	57	58	60	59	58	59	61	62	64	59	56	58	59	56	59	60	60	62	60	58.7		
	Minimum.....	48	47	51	50	53	49	48	45	51	49	50	50	48	49	51	50	52	50	51	51	53	52	51	50	53	53	52	52	52	50.8		
Pomona	Maximum	96	97	97	99	98	99	98	98	95	95	93	92	102	101	101	101	98	94	94	94	88	88	86	88	82	82	84	85	86	90	92.1	
	Minimum.....	60	61	61	55	56	53	54	53	57	57	58	55	56	60	61	61	56	58	61	56	56	56	56	60	61	49	42	47	57	62	61	55.1
Porterville	Maximum	106	102	103	104	98	101	106	102	104	104	105	107	107	109	108	103	106	99	94	93	97	94	84	82	78	84	88	94	97	101	98.8	
	Minimum.....	57	60	65	66	60	58	63	61	61	61	60	67	69	65	67	65	57	54	57	58	58	56	50	57	55	51	55	57	60	59.9		
Red Bluff	Maximum	101	100	101	97	95	105	104	95	100	105	110	109	108	102	99	90	93	95	96	93	91	75	82	83	88	90	96	100	97.8			
	Minimum.....	67	63	63	62	59	66	70	66	62	72	73	76	73	76	73	74	72	62	59	61	64	67	57	54	58	62	62	72	66.2			
Redlands	Maximum	99	96	95	98	99	92	102	100	99	97	96	98	102	103	102	98	93	92	86	88	91	96	96	84	76	75	80	85	86	87	90	93.1
	Minimum.....	65	67	64	63	61	62	63	66	61	60	61	63	67	63	62	60	63	67	53	56	56	60	59	51	47	51	56	55	59	55.8		
Sacramento	Maximum	97	94	95	90	93	102	98	92	97	100	103	105	107	107	108	105	91	91	80	85	91	83	87	79	68	77	81	80	89	94	101	92.8
	Minimum.....	61	54	60	58	57	59	60	55	63	64	63	67	68	69	70	65	59	54	55	55	54	55	54	55	53	58	57	61	63	59.5		
San Bernardino	Maximum	102	105	99	102	102	105	104	102	100	97	100	105	104	101	98	97	91	86	87	92	95	94	86	75	72	74	80	84	85	91	94	94.7
	Minimum.....	57	67	60	52	60	58	59	59	60	59	60	60	60	60	60	60	60	56	53	52	52	52	52	47	47	48	48	52	56.8			
San Diego.....	Maximum	79	79	78	80	77	77	74	76	75	76	75	76	79	81	82	79	71	72	73	75	73	74	71	72	72	72	73	75.4				
	Minimum.....	67	68	67	61	68	66	65	65	67	68	66	66	69	68	64	64	63	64	65	66	66	64	65	66	65	65	66	65	65.5			
San Francisco	Maximum	60	62	63	66	70	75	61	63	65	66	70	71	69	66	68	67	65	65	65	66	65	66	67	72	72	73	76	73	68.8			
	Minimum.....	62	51	52	52	52	51	55	52	52	52	52	55	51	53	53	53	53	54	55	55	55	55	55	54	55	55	55	55	53.4			
San Jose	Maximum	79	81	85	86	80	92	80	81	84	86	91	92	90	88	93	90	86	83	77	77	76	74	74	79	77	76	80	80	82	82.9		
	Minimum.....	51	56	53	54	54	55	55	54	55	55	54	55	56	58	57	58	55	54	53	53	54	53	54	53	54	53	54	54	54.5			
San Luis Obispo	Maximum	85	81	82</																													

SUPPLEMENTAL PRECIPITATION TABLE

Stations.	Watersheds.	Precip. inches.	Stations.	Watersheds.	Precip. inches.	Stations.	Watersheds.	Precip. inches.	Stations.	Watersheds.	Precip. inches.
Abbotts.....	Coast.....	.0	Dobbins (near).....	Sacramento.....	.30	Lathrop.....	San Joaquin.....	T.	Repreza.....	Sacramento.....	.0
Aguanga.....	do.....	T.	Downieville.....	do.....	.67	La Verne.....	Coast.....	do.....	Rio Vista.....	do.....	T.
Angiola.....	San Joaquin.....	T.	Dudley.....	San Joaquin.....	.54	Le Grand.....	San Joaquin.....	0	Ruth.....	Coast.....	.10
Antelope Valley.....	do.....	.17	Dudleys.....	do.....	.46	Livermore.....	Coast.....	0	St. John.....	Sacramento.....	.13
Arrowhead Springs.....	Coast.....	0	East Park.....	Sacramento.....	.04	Llano.....	do.....	.05	San Miguel Island.....	Ocean.....	0
Auberry.....	San Joaquin.....	.19	Edison.....	San Joaquin.....	0	Lompoc.....	do.....	0	San Pedro.....	Coast.....	0
Auburn.....	Sacramento.....	.31	Electra.....	do.....	.11	Los Alamos.....	do.....	0	Santa Ana River.....	do.....	0
Avalon.....	Ocean.....	0	Emigrant Gap.....	Sacramento.....	.65	Los Gatos.....	do.....	T.	Santa Clara.....	do.....	0
Azusa.....	Coast.....	0	Fairmont.....	Coast.....	0	Lytle Creek.....	do.....	0	Santa Maria.....	do.....	0
Bagdad.....	Desert.....	.32	Firebaugh.....	San Joaquin.....	.18	Mountain Lakes.....	do.....	1.90	Santa Monica.....	do.....	0
Barrett Dam.....	Coast.....	.25	Fordyce Dam.....	Sacramento.....	.61	Maricopa.....	do.....	.05	Seven Oaks.....	do.....	.07
Beaumont.....	do.....	0	Fort Bragg.....	Coast.....	T.	Mariposa.....	do.....	.19	Shield's Ranch.....	Walker.....	.78
Beaumont (near).....	do.....	0	Fort Ross.....	do.....	.29	Marysville.....	Carson.....	.68	Shively.....	Mountain Lakes.....	.42
Bellota.....	San Joaquin.....	.42	Friant.....	San Joaquin.....	T.	Melones.....	San Joaquin.....	.03	Sierraville.....	San Joaquin.....	.22
Benson's Ferry.....	Sacramento.....	0	Georgetown.....	Sacramento.....	.25	Merced Falls.....	do.....	0	Sonora.....	do.....	.02
Betteravia.....	Coast.....	0	Glacier Point.....	San Joaquin.....	1.12	Mesa Grande.....	Coast.....	0	Springville (near).....	do.....	.12
Big Bar.....	Sacramento.....	.08	Glenville.....	do.....	T.	Middlewater.....	San Joaquin.....	.06	Standish.....	Mountain Lakes.....	.62
Big Sur.....	Coast.....	0	Goffs.....	do.....	.09	Mill Creek-1.....	do.....	.59	Stanwood.....	Coast.....	.02
Bishop Creek.....	Owens.....	.99	Gray Mountain.....	Klamath.....	.62	Mill Creek-2.....	Coast.....	.05	Sterling*.....	Desert.....	.96
Calaveras R. S.....	San Joaquin.....	.36	Happy Camp.....	do.....	.25	Milo.....	San Joaquin.....	T.	Storey.....	San Joaquin.....	T.
Campbell.....	Coast.....	0	Hayfork.....	Sacramento.....	.00	Milton (near).....	do.....	.38	Tamarack.....	Sacramento.....	.87
Camptonville.....	do.....	1.00	Head Dam.....	Coast.....	0	Mokelumne Hill.....	do.....	.21	Tejon Rancho.....	San Joaquin.....	0
Canou Dam.....	San Joaquin.....	.65	Helen Mine.....	do.....	0	Monroeville.....	Sacramento.....	.14	Three Rivers.....	do.....	.32
Cascada.....	do.....	1.33	Hetch Hetchy.....	San Joaquin.....	1.00	Montague.....	Klamath.....	.29	Towle.....	Sacramento.....	0
Cedarville.....	do.....	.59	Hillville (near).....	do.....	.36	Nellie.....	Coast.....	0	Trona.....	Desert.....	.23
Centerville Pwr. H.....	Mountain Lakes.....	0	Huntington Lake.....	San Joaquin.....	2.09	Nicolaus.....	Sacramento.....	T.	Truckee.....	Mountain Lakes.....	0
Chester.....	do.....	.06	Idria.....	do.....	0	North Bloomfield.....	do.....	.54	Turlock.....	San Joaquin.....	0
China Flat.....	Coast.....	.16	Jenny Lind.....	do.....	.30	North Fork.....	do.....	.34	Tustin (near).....	Coast.....	T.
Churn Creek.....	Sacramento.....	.07	Jolon.....	Coast.....	0	Oak Grove.....	Coast.....	.85	Twin Lakes.....	Mountain Lakes.....	.75
Clovis.....	San Joaquin.....	0	Julian.....	do.....	.25	Orleans.....	Klamath.....	.33	Twin Valley.....	Sacramento.....	.11
Coalinga.....	do.....	.03	Kennedy Mine.....	San Joaquin.....	.08	Ozena.....	Coast.....	0	Upper Mattole.....	Coast.....	.69
Colgate.....	Sacramento.....	.24	Kentfield.....	Coast.....	0	Parkfield.....	do.....	0	Vacaville.....	Sacramento.....	0
Crockett.....	Coast.....	0	King City*.....	San Joaquin.....	.22	Paso Robles-2.....	do.....	0	Walnut Creek.....	Coast.....	0
Cuyamaca.....	do.....	.85	Knights Landing.....	Coast.....	0	Pattaway.....	San Joaquin.....	.10	Warner Springs.....	do.....	.62
Deer Creek.....	Sacramento.....	.66	La Jolla Ind. Res.....	Coast.....	0	Peachland.....	Coast.....	.05	Wasco.....	do.....	0
Del Monte.....	Coast.....	0	Lake Eleanor.....	Coast.....	1.31	Piedra.....	San Joaquin.....	0	Wascojoa.....	Coast.....	0
Denair.....	San Joaquin.....	.50	Lakeport.....	Sacramento.....	.07	Point Loma.....	Coast.....	.04	West Branch.....	Sacramento.....	.14
De Sabla.....	Sacramento.....	.10	Lake Spaulding.....	do.....	1.04	Priest Valley.....	do.....	0	West Point.....	San Joaquin.....	.88
Dinuba.....	San Joaquin.....	.05	Las Plumas.....	do.....	.02	Quincy.....	Sacramento.....	.14	Wrights.....	Coast.....	.40
						Reedley.....	San Joaquin.....	.15	Yorba Linda.....	do.....	0

* Data obtained from 3-inch rain gage.