

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

CLIMATOLOGICAL DATA.

CALIFORNIA SECTION

EDWARD A. BEALS, METEOROLOGIST.

Vol. XXV.

SAN FRANCISCO, AUGUST, 1921.

No. 8.

GENERAL SUMMARY.

Seasonable weather prevailed along the coast of California during August, but abnormally cool weather was experienced in the interior valleys. Little or no precipitation occurred except in the extreme southeastern portion where local storms were accompanied by heavy showers. In the Imperial Valley the rain was sufficiently heavy between the 21st and 23rd to cause local floods. A violent thunderstorm at Needles on the 28th was accompanied by destructive winds which unroofed houses and uprooted trees. While abundant sunshine was received in the interior valleys, fog and low clouds were of frequent occurrence along the coast. Because of diminished visibility caused by a dense fog, the Steamer Alaska ran ashore on Blunt's Reef on the 6th, resulting in the loss of 44 lives and the destruction of the ship. Thunderstorms were of frequent occurrence in the mountains, and many forest fires were started by lightning. Ample water was available for irrigation and for hydroelectric power.

Agriculturally, the weather during August was satisfactory. Conditions were favorable for threshing. Deciduous fruits made good progress toward maturity, and much fruit was harvested. The sun-curing of fruit proceeded without interruption, as weather conditions were generally good. The absence of severe heat caused truck crops to thrive. Beans and sugar beets growing along the coast were benefited by the high relative humidity attending the fog and low clouds. While the heat of the interior valleys was not as great as that of past years, midday temperatures were sufficiently high to promote the growth of corn, rice and grapes. The harvesting of rice began at the close of the month, about two weeks earlier than usual. Citrus orchards everywhere maintained an excellent condition, with better prospects than those of last year. The condition of grazing stock continued excellent, and ample feed was found on the mountain ranges. It was good harvest weather, and the crops gathered during the month were satisfactory, both in quality and in quantity. Generally favorable weather has attended the progress of the agricultural year now drawing to a close, and it is believed that the total yield of crops will come up to early expectations.

A.H.P.

PRESSURE.

The mean sea-level pressure, determined from the records of 11 regular Weather Bureau stations, was 29.05 inches. The highest was 30.18 inches at Eureka on the 12th; the lowest was 29.76 inches at Independence on the 1st, and at Fresno on the 6th; the range for the State was 0.42 inch.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 96 stations, was 71.4° , which is 1.4° below normal.

The highest monthly mean was 95.5° , at Greenland Ranch; and the lowest was 53.7° , at Point Reyes.

The highest temperature, 118° , occurred at Greenland Ranch on the 4th, 5th and 11th; and the lowest, 20° , occurred at Portola on the 23d.

The range for the State was 98° .

PRECIPITATION.

The average precipitation for the State, as shown by the records of 246 stations, was 0.10 inch, or 0.02 inch above the normal.

The greatest monthly amount was 3.79 inches, at Campo. No rain fell at 182 stations.

The greatest amount in 24 hours was 2.10 inches at Needles on the 21st.

RELATIVE HUMIDITY, SUNSHINE AND CLOUDINESS.

Stations.	Relative humidity Per cent.			Sunshine.
	5 a.m.	5 p.m.	Mean.	
Eureka.....	93	82	88	200
Fresno.....	50	14	32	378
Independence.....	42	19	30	361
Los Angeles.....	87	61	74	336
Mount Tamalpais.....	.....	.....	.....	81
Red Bluff.....	56	19	38	406
Sacramento.....	77	35	56	419
San Diego.....	89	77	83	291
San Francisco.....	92	76	84	276
San Jose.....	.....	52	.....	354
San Luis Obispo.....	90	64	77	324
				78

WIND MOVEMENT.—(Miles.)

Stations.	Total mov. for month.	Ave. hr. velocity.	Maximum velocity.	Direction.		Prev.dir.
				Date	Direction.	
Eureka.....	3,934	5.3	24	24	n.w.	n.w.
Fresno.....	6,149	8.3	22	16	n.w.	n.w.
Independence.....	4,401	5.9	22	27	s.	s.
Los Angeles.....	3,566	4.8	15	1	s.w.	s.w.
Mount Tamalpais.....	.....	.....	.....	.....	.....	.....
Point Reyes.....	16,036	21.6	48	14	n.w.	n.w.
Red Bluff.....	3,015	4.1	17	16	se.	se.
Sacramento.....	6,116	8.2	21	2	s.	s.
San Diego.....	4,492	6.0	18	20	w.	w.
San Francisco.....	7,337	9.9	36	20	s.w.	s.w.
San Jose.....	4,217	5.7	20	15	n.w.	n.w.
San Luis Obispo.....	2,478	3.3	15	12	n.w.	n.w.

COMPARATIVE DATA FOR AUGUST.

Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.
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	0.00	1917....	72.5	0.04
1900....	71.0	0.02	1906....	73.6	0.13	1912....	70.2	0.06	1918....	71.4	0.14
1901....	75.6	0.12	1907....	71.0	0.11	1913....	74.8	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
1903....	72.6	0.02	1909....	72.1	0.19	1915....	74.2	0.06	1921....	71.4	0.10

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.....	227	245	228	247	234	100	222	255	171	156	223	231	246	207	226	288	246	185	212	209	201	233	217	195	172	211	154	220	222	239	222	6,589
	Wind movement.....	108	119	105	115	113	69	123	146	128	115	126	120	115	89	86	95	111	84	100	88	98	92	97	76	84	81	90	96	106	91	3,172	
Dodgeland*....	Evaporation.....	185	244	254	185	289	443	320	174	301	212	276	192	322	218	127	370	164	142	233	386	158	215	348	198	177	202	142	204	214	345	290	7,530
Oakdale (near)*....	Wind movement.....	3	23	11	12	3	21	32	22	14	41	8	22	27	17	26	30	37	21	31	22	12	26	13	19	20	19	5	25	18	617		
Tahoe**....	Evaporation.....	440	430	422	477	556	633	530	465	477	401	506	442	347	459	416	518	514	460	464	441	497	447	518	410	435	423	453	504	486	528	14,651	
	Wind movement.....	180	180	110	80	100	125	145	60	150	135	165	200	165	110	115	120	175	125	105	140	120	130	105	115	110	140	150	110	150	4,100		
	Evaporation.....	240	190	210	230	240	260	210	190	210	220	250	220	240	170	145	176	180	200	165	145	215	220	155	115	120	135	115	120	6,245			
	Wind movement.....	28	35	24	40	34	22	51	62	61	25	26	58	30	35	45	87	26	45	31	17	22	9	38	67	58	38	61	49	35	44	72	1,265

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

Climatological Data for August, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.					Precipitation, in inches.					Number of days.			Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Snowfall (un-melted),	Precipitation, 0.1 inch or more.	Clear.	Partly cloudy.	Cloudy.	
Antioch.	Contra Costa.	46	41	70.8	-3.7	95	+16	45	14	49	0	-0.02	0	0	31	0	0	e.	
Atascadero.	San Luis Obispo.	837	4	65.8	-2.9	92	+15	40	+11	49	0	-0.02	0	0	31	0	0	w.	
Bakersfield.	Kern.	404	31	80.1	-2.9	105	+14	57	+13	43	T.	-0.01	T.	0	0	25	5	1	nw.
Barstow.	San Bernardino.	2,105	17	62.3	0	86	+17	48	29	35	0	-0.06	0	0	16	5	10	sw.	
Berkeley.	Alameda.	317	33	62.3	-0.5	87	+7	46	+14	32	0	-0.09	0	0	31	0	0	n.	
Bliss Canon.	Placer.	4,696	21	63.4	-0.5	87	+7	46	+14	32	0	-0.09	0	0	31	0	0	sw.	
Blythe.	Riverside.	268	11	90.6	-1.7	114	+13	67	16	41	.63	-0.24	.24	0	3	24	7	0	
Bonita.	San Diego.	110	4	70.8	-0.7	90	+28	56	+13	32	.28	-0.28	.28	0	1	27	3	1	
Branscomb.	Mendocino.	2,000	20	64.6	-0.7	98	+6	39	27	43	0	-0.04	0	0	31	0	0	w.	
Brawley.	Imperial.	-105	10	59.0	-1.1	*109	+4	67	16	+37	.23	-0.21	.21	0	2	2	5	4	
Calexico.	Imperial.	0	15	88.5	-1.1	110	+13	68	17	36	2.84	+2.14	2.04	0	2	22	5	4	
Chico.	Butte.	189	50	73.9	-7.6	105	+5	47	+31	48	0	-0.02	0	0	28	3	0	sw.	
Chula Vista.	San Diego.	9	2	67.2	-1.1	77	+28	59	2	15	.04	-0.04	.04	0	1	9	22	0	
Claremont.	Los Angeles.	1,200	28	74.5	+1.5	102	+28	48	2	44	0	-0.05	0	0	29	1	1	sw.	
Cloverdale.	Sonoma.	340	18	69.2	-0.9	99	+15	42	30	50	T.	0	T.	0	30	0	1	s.	
Colfax.	Placer.	2,421	49	73.2	-3.3	96	+5	53	23	30	0	-0.02	0	0	31	0	0	se.	
Colusa.	Colusa.	60	17	73.7	-0.8	102	+6	49	13	45	0	-0.01	0	0	29	2	0	se.	
Corona.	Riverside.	615	26	67.0	-1.1	104	+28	52	17	45	0	-0.04	0	0	29	2	0	w.	
Crescent City.	Del Norte.	125	6	58.6	-2.1	82	+6	39	31	34	.07	-0.45	.07	0	1	29	2	0	
Davis.	Yolo.	51	48	72.4	-1.7	*101	+4	*42	28	54	0	-0.01	0	0	26	4	0	sw.	
Dodgeland.	Butte.	160	25	75.2	-1.7	102	+7	53	23	38	0	-0.04	0	0	27	4	0	s.	
El Cajon.	San Diego.	482	21	73.6	+0.1	99	+29	55	+3	41	.07	-0.04	.07	0	1	27	4	0	
Elsinore.	Riverside.	1,300	4	79.2	-1.1	106	+4	51	15	49	.06	-0.15	.06	0	1	21	9	1	
Escondido.	San Diego.	742	26	71.8	-0.4	95	+27	48	+18	40	.12	+0.04	.12	0	1	29	2	0	
EUREKA.	Humboldt.	64	34	55.8	0	70	+17	45	4	46	.01	-0.09	.01	0	1	6	10	15	
Folsom.	Sacramento.	292	47	74.7	-3.0	99	+17	50	+17	49	0	-0.02	0	0	31	0	0	sw.	
Fontana.	San Bernardino.	1,325	8	73.0	-1.1	99	+3	49	+2	49	T.	0	T.	0	29	2	0	sw.	
Fordyce Dam.	Nevada.	6,500	26	56.9	-2.0	84	+6	35	+22	38	0	-0.29	0	0	28	3	0	sw.	
Fort Bidwell.	Modoc.	4,375	31	69.2	-1.5	97	+7	42	29	49	0	-0.21	0	0	10	18	3	sw.	
FRESNO.	Fresno.	293	33	79.9	-1.3	104	+4	57	12	37	0	-0.04	0	0	30	1	0	nw.	
Grass Valley.	Nevada.	2,690	45	73.0	+0.3	94	+5	54	+24	32	0	-0.04	0	0	29	0	2	sw.	
Greenland Ranch.	Inyo.	-178	9	95.5	-1.1	118	+4	65	+20	48	0	-0.04	0	0	30	0	1	p.	
Hanford.	Kings.	249	20	78.6	+1.1	105	+19	54	11	43	0	-0.04	0	0	31	0	0	se.	
Healdsburg.	Sonoma.	110	27	66.4	-0.1	97	+15	40	29	54	0	-0.01	0	0	13	18	0	sw.	
Hollister.	San Benito.	284	46	64.0	-2.7	86	+15	45	25	36	0	-0.04	0	0	31	0	0	w.	
INDEPENDENCE.	Inyo.	3,957	24	76.0	-0.4	100	+6	55	19	38	.08	-0.02	.08	0	1	23	7	1	se.
Indio.	Riverside.	-20	42	89.5	-3.5	112	+13	65	16	40	.72	+0.55	.45	0	2	14	15	2	sw.
Inskip.	Butte.	4,975	13	67.4	+1.7	89	+6	50	13	32	0	-0.06	0	0	27	4	0	sw.	
Kennett.	Shasta.	730	8	78.5	-1.1	113	+6	52	+27	48	0	-0.04	0	0	30	1	0	ne.	
La Porte.	Plumas.	5,000	26	58.8	-2.5	87	+16	36	25	42	0	-0.12	0	0	30	1	0	s.	
Lemon Cove.	Tulare.	600	25	77.9	-2.1	107	+4	53	15	46	0	-0.0	0	0	30	1	0	nw.	
Lick Observatory.	Santa Clara.	4,209	31	68.4	-1.0	88	+6	48	16	28	0	-0.02	0	0	29	2	0	sw.	
Lindsay.	Tulare.	384	6	78.2	-1.1	104	+15	52	22	49	0	-0.0	0	0	31	0	0	nw.	
Long Beach.	Los Angeles.	50	0	70.4	-1.1	93	+29	50	21	39	T.	0	T.	0	28	3	0	s.	
LOS ANGELES.	Los Angeles.	293	43	70.6	-0.9	90	+28	55	12	25	T.	0	T.	0	16	14	1	sw.	
McCloud.	Siskiyou.	3,270	10	63.7	-1.1	97	+6	35	28	50	0	-0.01	0	0	27	4	0	s.	
Marysville.	Yuba.	67	49	74.2	-4.7	102	+15	50	33	44	0	-0.01	0	0	31	0	0	sw.	
Mecca.	Riverside.	-185	14	89.4	+0.6	111	+13	69	+15	36	.56	+0.01	.35	0	4	21	7	3	se.
Merced.	Merced.	173	46	76.4	-2.9	103	+4	53	13	41	0	-0.02	0	0	31	0	0	nw.	
MT. TAMALPAIS.	Marin.	2,375	21	71.4	-1.1	105	+6	51	31	41	T.	0	T.	0	29	2	0	se.	
Mount Wilson.	Los Angeles.	5,704	3	71.4	-1.1	91	+5	53	1	25	T.	0	T.	0	25	4	2	sw.	
Napa.	Napa.	20	45	64.5	-1.6	95	+15	44	28	48	0	-0.02	0	0	30	1	0	s.	
Needles.	San Bernardino.	477	28	90.5	-2.2	116	+13	69	22	39	3.79	+3.20	2.10	0	15	6	10	e.	
Nevada City.	Nevada.	2,850	28	67.2	-0.9	95	+5	40	24	47	0	-0.04	0	0	27	4	0	sw.	
Newman.	Stanislaus.	91	31	73.2	-7.0	114	+4	42	+10	65	0	-0.02	0	0	28	1	2	n.	
Oakdale (near).	Stanislaus.	215	27	73.6	-2.6	100	+14	48	+14	42	0	-0.01	0	0	31	0	0	nw.	
Oakland.	Alameda.	322	44	61.8	+0.5	80	+15	51	13	26	0	-0.03	0	0	11	12	8	w.	
Ojai.	Ventura.	900	14	73.4	+2.3	105	+29	41	3	61	T.	0	T.	0	29	2	0	sw.	
Orland.	Glenn.	254	38	76.0	-8.2	106	+6	51	31	41	T.	0	T.	0	29	2	0	s.	
Oroville (near).	Butte.	250	36	71.1	-1.1	105	+6	51	0	0	0	-0.02	0	0	30	1	0	sw.	
Pasadena.	Los Angeles.	805	30	71.8	-1.7	96	+29	48	12	43	T.	0	T.	0	28	2	1	sw.	
Paso Robles.	San Luis Obispo.	800	33	71.2	+1.0	101	+5	43	21	50	0	-0.07	0	0	21	10	0	n.	
Petaluma.	Sonoma.	9	6	68.6	-1.1	105	+7	49	+10	41	0	-0.01	0	0	31	0	0	sw.	
POINT REYES.	El Dorado.	1,925	31	68.0	-1.9	96	+15	43	24	49	0	-0.03	0	0	25	3	3	sw.	
Pismo.	Marin.	490	28	53.7	-0.9	62	+4	46	29	13	0	-0.08	0	0	3	8	20	nw.	
Pomona.	Los Angeles.	857	6	73.0	-1.0	100	+28	48	+12	46	0	-0.0	0	0	16	15	0	sw.	
Porterville.	Tulare.	464	31	74.8	-4.2	105	+4	54	+11	46	T.	0	-0.01	0	31	0	0	nw.	
RED BLUFF.	Tehama.	307	47	77.6	-3.4	106	+6	54	12	40	0	-0.02	0	0	29	2	0	se.	
Redding.	Shasta.	552	45	71.1	-1.4	101	+3	51	+2	47	.09	-0.25	.07	0	26	2	3	w.	
Redlands.	San Bernardino.	1,352	27	75.8	-1.4	101	+1	51	+2	51	0	-0.14	0	0	28	3	0	sw.	
Riverside.	Riverside.	851	38	76.6	+0.2	105	+29	51	+2	51	0	-0.03	0	0	31	0	0	se.	
Rocklin.	Placer.	249	47	73.7	-4.5	102	+7	47	+28	47	0	-0.03	0	0	31	0	0	sw.	
SACRAMENTO.	Sacramento.	71	43	72.1	0	101	+5	48	13	41	0	-0.01	0	0	31	0	0	s.	
Salinas.	Monterey.	40	46	61.4	-0.2	80	+17	46	29	30	0	-0.02	0	0	27	3	1	w.	
San Bernardino.	San Bernardino.	1,094	28	76.4	+0.7	104	+13	49	+2	52	0	-0.15	0	0	24	6	1	sw.	
San DIEGO.	San Diego.	87	49	68.2	-0.5	81	+28	60											

AUGUST, 1921.

CLIMATOLOGICAL DATA: CALIFORNIA SECTION.

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Daily Precipitation for August, 1921.

Stations.	Drainage-basin.	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																																0.00
Atascadero	Coast																																T
Bakersfield	San Joaquin																																0
Barstow	Dessert																																0
Berkeley	Coast																																0
Blue Canon	Sacramento																																0
Blythe	Colorado																																.63
Bonita	Coast																																.28
Branscomb	do																																0
Brawley	Imperial Valley																																.23
Calexico	do																																2.84
Chico	Sacramento																																0
Chula Vista	Coast																																.04
Claremont	do																																T
Cloverdale	do																																0
Colfax	Sacramento																																0
Colusa	do																																0
Corona	Coast																																.07
Crescent City	do																																0
Davis	Sacramento																																.07
Dodgeland	do																																0
El Cajon	Coast																																.07
Elsinore	do																																.06
Escondido	do																																.12
EUREKA***	do																																.01
Folsom	Sacramento																																T
Fontana	Coast																																0
Fordyce Dam	Sacramento																																T
Fort Bidwell	Mountain Lakes																																0
FRESNO***	San Joaquin																																0
Grass Valley	Sacramento																																0
Greenland Ranch	Desert																																0
Hanford	San Joaquin																																0
Healdsburg	Coast																																0
Hollister	do																																0
INDEPENDENCE***	Owens																																.08
Indio	Coachella Val.																																.72
Iuskip	Sacramento																																0
Kennett	do																																0
La Porte	do																																0
Lemon Cove	San Joaquin																																0
Lick Observatory	Coast																																0
Lindsay	San Joaquin																																0
Long Beach	Coast																																T
Los ANGELES***	do																																T
McCloud	Sacramento																																0
Marysville	do																																0
Mecca	Coachella Val.																																.56
Mered	San Joaquin																																0
Mr. TAMALPAIS***	Coast																																T
Mount Wilson	do																																T
Napa	do																																0
Needles	Colorado																																3.79
Nevada City	Sacramento																															0	
Newman	San Joaquin																															0	
Oakdale (near)	do																															0	
Oakland	Coast																															0	
Ojai	do																															T	
Oroville (near)	do																															0	
Pasadena	Coast																															0	
Paso Robles	do																															0	
Petaluma	do																															0	
Placerville	Sacramento																															0	
POINT REYES***	Coast																															T	
Pomona	do																															0	
Porterville	do																															0	
RED BLUFF***	Sacramento																															0	
Redding	do																															0	
Redlands	do																															0	
Riverside	do	</td																															

AUGUST, 1921.

Daily Temperature for August, 1921.

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	95	97	104	105	105	104	103	101	101	99	91	93	96	97	101	94	94	90	102	99	98	93	97	98	97	94	96	99	101	97	98.6	
	Minimum....	60	61	61	62	62	65	69	75	65	64	59	57	57	58	63	62	60	60	65	62	60	63	55	59	60	61	61	61	61	61	61	
Calexico.....	Maximum	99	103	108	106	106	100	102	105	104	102	108	110	104	106	102	104	106	103	97	99	91	89	97	91	99	100	100	103	102	102.0		
	Minimum....	71	73	76	81	73	78	80	76	73	77	75	76	77	72	69	68	73	73	77	78	69	72	73	76	75	76	77	77	77	75	76.0	
Chico.....	Maximum	95	99	102	106	103	101	99	93	96	92	90	90	95	98	99	94	92	97	96	93	92	90	91	92	92	96	96	91	91	94.8		
	Minimum....	52	55	58	59	58	59	60	55	52	53	55	50	48	50	56	60	58	55	52	53	51	50	54	53	50	53	51	47	48	50	51	
Escondido	Maximum	82	85	87	89	88	85	84	88	85	85	84	87	86	85	84	87	88	80	89	90	90	85	85	90	95	94	93	89	90	87.7		
	Minimum....	62	61	51	55	53	59	56	56	62	59	51	52	54	53	53	54	53	56	59	62	59	56	55	56	59	55	55	51	51	51		
Eureka.....	Maximum	56	56	57	62	60	61	55	59	56	57	58	60	61	51	59	68	70	61	59	57	60	61	62	60	60	61	61	59	59	59		
	Minimum....	50	50	50	48	49	49	49	52	51	51	50	52	54	53	52	57	54	53	52	54	50	49	55	55	54	54	51	51	51	51		
Fresno.....	Maximum	93	96	101	104	102	103	100	98	99	94	88	92	94	96	99	93	92	96	99	96	97	93	95	95	97	95	95	94	97	101	99	96.8
	Minimum....	59	59	63	68	70	68	69	66	67	66	63	57	57	56	61	67	62	60	62	63	61	64	63	62	61	61	61	65	66	61	61	
Independence	Maximum	90	92	94	96	98	100	89	86	82	95	96	93	95	93	90	93	91	91	90	90	88	88	83	86	88	89	91	90	91	91.3		
	Minimum....	58	59	59	60	62	68	70	65	59	62	63	61	58	55	60	61	60	58	65	62	62	60	59	58	61	65	63	63	62	65		
Los Angeles.....	Maximum	76	76	81	81	80	79	74	77	75	76	75	79	81	78	78	78	81	79	83	85	84	79	73	83	84	85	89	88	83	83	85.0	
	Minimum....	62	61	56	62	60	62	62	61	62	60	55	60	60	61	60	60	58	57	58	60	63	62	60	62	63	66	66	64	61	60.8		
Merced.....	Maximum	91	94	92	103	101	99	98	94	93	95	89	85	90	91	96	98	93	91	96	94	93	92	95	94	93	95	99	96	91	91		
	Minimum....	61	61	61	64	64	63	61	59	63	58	54	53	53	53	59	61	57	57	60	55	55	56	55	58	57	57	57	58	57	58		
Oakland.....	Maximum	66	68	77	78	74	66	64	64	66	62	59	63	66	71	70	70	70	68	75	70	66	71	71	70	72	64	64	64	64	64.9		
	Minimum....	53	54	51	53	51	53	55	54	53	51	53	55	56	55	56	59	58	55	55	56	55	55	57	56	53	52	55	54	54	54.7		
Orland.....	Maximum	94	96	100	102	104	106	85	94	95	92	86	90	93	99	100	91	94	97	91	96	92	90	91	91	93	95	96	91	94	93.8		
	Minimum....	58	59	63	64	64	65	65	60	66	64	67	57	52	52	55	65	64	66	56	56	56	52	54	54	59	53	52	58	57	57.4		
Oroville.....	Maximum	93	92	96	100	104	105	104	95	94	95	98	90	87	91	93	100	97	91	97	98	92	92	92	95	95	95	100	97	94.9			
	Minimum....	81	85	92	89	88	83	78	85	84	84	84	86	87	87	85	86	87	91	89	91	93	91	89	86	90	89	93	94	89	87.0		
Pasadena.....	Maximum	57	57	49	55	56	59	62	59	58	57	55	56	48	51	51	56	57	55	55	51	52	54	53	57	62	57	55	55	55	55.8		
	Minimum....	57	57	49	55	56	59	62	59	58	57	55	56	48	51	51	56	57	55	55	56	57	56	57	56	57	56	57	56	57			
Paso Robles.....	Maximum	77	94	99	101	101	96	97	90	94	88	79	89	95	95	94	94	94	89	93	96	91	93	95	94	94	93	90	92	91	93.3		
	Minimum....	47	45	48	52	53	55	52	52	51	47	48	48	50	48	47	50	53	50	54	50	45	43	49	47	47	49	49	52	52	54.7		
Point Reyes.....	Maximum	55	58	55	62	60	62	58	54	55	53	55	59	59	59	58	60	57	57	56	59	57	57	58	58	58	58	58	58	58	58.4		
	Minimum....	49	49	48	49	48	50	51	50	50	50	50	50	50	51	49	48	51	50	54	51	50	52	50	50	51	50	50	50	50	50.4		
Pomona.....	Maximum	82	90	96	93	93	89	83	90	88	87	87	90	92	89	87	88	92	94	95	94	96	95	88	93	92	95	100	98	94	91.6		
	Minimum....	56	55	50	55	54	60	60	60	58	57	58	48	48	49	49	58	59	55	48	50	52	53	53	50	53	51	50	51	50.1			
Porterville.....	Maximum	96	103	105	104	103	102	101	100	99	97	91	94	97	96	100	94	95	95	101	100	99	99	95	97	95	94	97	102	101	95.3		
	Minimum....	60	58	59	63	65	63	65	70	66	60	51	54	54	56	57	58	54	55	56	55	54	55	57	55	56	55	58	59	59			
Red Bluff.....	Maximum	92	95	99	101	104	106	87	93	94	95	92	85	90	92	95	97	89	93	94	90	90	89	90	90	90	90	92	97	95	93.3		
	Minimum....	60	63	67	69	68	66	69	63	63	64	63	55	59	63	69	68	62	61	61	60	60	59	60	60	60	60	59	61	57	61.8		
Redlands.....	Maximum	84	92	101	97	97	89	88	92	92	90	89	93	94	93	90	91	93	98	97	97	90	90	96	95	94	100	99	98	93.8			
	Minimum....	58	51	51	57	60	62	61	61	59	55	56	54	54	54	52	51	51	52	56	61	64	65	68	66	60	63	65	60	63			
Sacramento.....	Maximum	83	91	96	99	101	93	87	85	86	86	86	79	76	85	89	90	91	86	87	93	88	89	86	84	87	87	87	85	88.7			
	Minimum....	53	53	58	62	60	58	55	54	55	55	53	53	53	53	53	56	56	56	55	53	56	55	56	54	57	54	57	55	55.5			
San Bernardino.....	Maximum	87	97	104	97	99	90	86	95	94	92	95	94	94	97	97	100	101	99	99	98	94	92	98	97	97	103	104	101	96	95.3		
	Minimum....	60	49	52	56	58	63	62	59	55	56	52	52	52	54	55	51	50	52	57	58	55	56	56	55	56	54	55	56	54.4			
San Diego.....	Maximum	72	72	71	73	73	70	74	73	72	71	71	71	71	70	72	72	73	73	74	76	75	72	73	73	75	75	77	76	76	75.1		
	Minimum....	64	64	63	64	63	64	64	65	64	63	63	62	61	61	62	60	63	62	63	64	66	66	65	64	64	65	64	65	64			
San Francisco.....	Maximum	64	64	69	69	66	63	63	60	62	60	61	64	65	69	77	64	68	67	66	64	63	65	67	66	64	64	64	65	64	64.4		
	Minimum....	54	52	51	52	52	54	54	54	55	52	54	55	54	54	55	54	55	55	55	53	54	53	55	54	55	54	55	54	55			
San Jose.....	Maximum	81	78	86	88	87	80	79	75	78	73	68	71	73	83	80	85	76	77	85	78	71	75	76	80	81	80	84	87	74.7			
	Minimum....	54	51	54	54	51	53	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55			
San Luis Obispo.....	Maximum	78	75	81	81	77	75	72	77	74	72	70	76	74	76	74	72	72	73	78	75	74	76	75	75	76	77	78	77	78			
	Minimum....	55	53	53	52	54	54	56	55	55	55	53	50	50	50</																		

SUPPLEMENTAL PRECIPITATION TABLE.

Stations.	Drainage-basin.	Precip., inches.	Stations.	Drainage-basin.	Precip., inches.	Stations.	Drainage-basin.	Precip., inches.	Stations.	Drainage-basin.	Precip., inches.
Abbotts.....	Coast.....	0	Dobbins (near).....	Sacramento.....	0	Las Plumas.....	Sacramento.....	0	Quincy.....	Sacramento.....	0
Aguanga.....	do.....	1.41	Downieville.....	do.....	0	Lathrop.....	San Joaquin.....	0	Reedley.....	San Joaquin.....	0
Amago.....	do.....	0.45	Dudley.....	San Joaquin.....	0	Le Grand.....	do.....	0	Repreza.....	Sacramento.....	0
Angiola.....	San Joaquin.....	0	Dudleys.....	do.....	T	Livermore.....	Coast.....	0	Rio Vista.....	do.....	0
Antelope Valley.....	do.....	0	East Park.....	Sacramento.....	T	Livingston.....	San Joaquin.....	0	Ruth.....	Coast.....	0
Arrowhead Springs.....	Coast.....	T	Edison.....	San Joaquin.....	0	Llano.....	Coast.....	0	St. Helena.....	do.....	0
Auberry.....	San Joaquin.....	0	Electra.....	do.....	0	Lompoc.....	do.....	0	St. John.....	do.....	0.01
Auburn.....	Sacramento.....	0	Emigrant Gap.....	Sacramento.....	0	Los Alamos.....	do.....	0	San Miguel Island.....	Sacramento.....	0
Avalon.....	Ocean.....	0	Escondido—2.....	Coast.....	0.19	Los Gatos.....	do.....	0	Santa Ana River.....	Ocean.....	0
Bagdad.....	Desert.....	0.80	Fairmont.....	Coast.....	0	Lytle Creek.....	do.....	0	Santa Clara.....	Coast.....	0.23
Barrett Dam.....	Coast.....	0.22	Firebaugh.....	San Joaquin.....	0	Madelaine.....	Mountain Lakes.....	T	Santa Maria.....	do.....	0
Beaumont.....	do.....	0.69	Fort Bragg.....	Coast.....	0	Maricopa.....	San Joaquin.....	0	Santa Monica.....	do.....	0
Beaumont (near).....	do.....	0.46	Fort Ross.....	do.....	0	Mariposa.....	do.....	0	Seven Oaks.....	T.....	0.60
Bellota.....	San Joaquin.....	0	Friant.....	San Joaquin.....	0	Markleeville.....	Carson.....	0.09	Shield's Ranch.....	Walker.....	T
Benson's Ferry.....	do.....	0	Georgetown.....	Sacramento.....	0	Melones.....	San Joaquin.....	0	Shively.....	Coast.....	0
Betteravia.....	Coast.....	0	Giant Forest.....	San Joaquin.....	T	Merced Falls.....	do.....	0	Sierraville.....	Sacramento.....	0
Big Bar.....	Sacramento.....	0	Glacier Point.....	do.....	0	Mesa Grande.....	Coast.....	0.20	Sonoraville.....	San Joaquin.....	0
Big Sur.....	Coast.....	0	Glenville.....	do.....	T	Middlewater.....	San Joaquin.....	0	Spaulding.....	Sacramento.....	0
Bishop Creek.....	Owens.....	.35	Gray Mountain.....	Desert.....	0	Mill Creek—1.....	do.....	0	Standish.....	Mountain Lakes.....	0
Calaveras R. S.	San Joaquin.....	0	Happy Camp.....	Coast.....	0	Mill Creek—2.....	Coast.....	0.47	Sterling*.....	Desert.....	1.49
Campbell.....	Coast.....	0	Hayfork.....	Sacramento.....	0	Milo.....	San Joaquin.....	0	Storey.....	San Joaquin.....	0
Campo.....	do.....	0.60	Head Dam.....	do.....	0	Milton (near).....	do.....	0	Tamarack.....	Sacramento.....	0
Campionville.....	Sacramento.....	0	Helen Mine.....	Coast.....	0	Mokelumne Hill.....	do.....	0	Tejon Rancho.....	San Joaquin.....	0
Canon Dam.....	do.....	0	Hetch Hetchy.....	San Joaquin.....	0	Monroeville.....	Sacramento.....	0	Three Rivers.....	do.....	T
Cascada.....	San Joaquin.....	0	Hot Springs.....	do.....	0	Montague.....	Klamath.....	0	Troua.....	Desert.....	0.04
Cedarville.....	do.....	0	Hulyville (near).....	Coast.....	0	Nellie.....	Coast.....	0.68	Turlock.....	San Joaquin.....	0
Centerville Pwr. H.	Mountain Lakes.....	0	Huntington Lake.....	San Joaquin.....	0	Nicolaus.....	Sacramento.....	0	Tustin (near).....	Coast.....	0
Chester.....	Sacramento.....	0	Idria.....	do.....	0	North Bloomfield.....	do.....	0	Twin Lakes.....	Mountain Lakes.....	0
China Flat.....	Coast.....	0	Jenny Lind.....	do.....	0	North Fork.....	San Joaquin.....	0	Twin Valley.....	Sacramento.....	0
Churn Creek.....	Sacramento.....	0	Joino.....	Coast.....	0	Oak Grove.....	Coast.....	2.11	Upper Mattole.....	Coast.....	0
Clovis.....	San Joaquin.....	0	Julian.....	do.....	0.91	Orleans.....	Klamath.....	0	Walnut Creek.....	Coast.....	0
Coalinga.....	do.....	0	Kennedy Mine.....	San Joaquin.....	0	Ozena.....	Coast.....	0	Warner Springs.....	do.....	2.03
Colgate.....	Sacramento.....	0	Kentfield.....	Coast.....	0	Parkfield.....	do.....	0	Wasco.....	San Joaquin.....	0
Crockett.....	Coast.....	0	Kernville.....	San Joaquin.....	0	Paso Robles—2.....	do.....	0	Wasjcioja.....	Coast.....	0
Cuyamaca.....	do.....	0.07	King City*.....	Coast.....	0	Pattiyaw.....	San Joaquin.....	0	West Branch.....	Sacramento.....	0
Deer Creek.....	Sacramento.....	0	Knights Landing.....	Sacramento.....	0	Peachland.....	Coast.....	0	West Point.....	San Joaquin.....	0
Del Monte.....	Coast.....	0	Lake Eleanor.....	San Joaquin.....	0	Piedra.....	San Joaquin.....	0	Westwood.....	Sacramento.....	0
Denair.....	San Joaquin.....	0	Lakeport.....	Sacramento.....	0	Point Loma.....	Coast.....	0.02	Wrights.....	Coast.....	0
De Sabla.....	Sacramento.....	0	Lake Spaulding.....	do.....	0	Portola.....	Sacramento.....	0	Yorba Linda.....	do.....	0.01
Dinuba.....	San Joaquin.....	0	Lake Tahoe.....	Truckee.....	0	Priest Valley.....	Coast.....	0			

*Data obtained from 3-inch rain gage.