

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

CALIFORNIA SECTION

AUGUST, 1915

BY

GEORGE H. WILLSON

DISTRICT FORECASTER AND SECTION DIRECTOR



SAN FRANCISCO, CAL.
WEATHER BUREAU OFFICE
SEPTEMBER 20, 1915

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CALIFORNIA SECTION.

G. H. WILLSON, District Forecaster.

VOL. XIX. SAN FRANCISCO, AUGUST, 1915. No. 8.

GENERAL SUMMARY.

The month passed without any very noteworthy departures from normal weather conditions, barring the disturbances of the 26th in the southern end of the State. On this date thunderstorms visited nearly all sections south of the Tehachepi, causing brisk winds and widespread precipitation. Naturally the larger amounts of rainfall were recorded in the mountain regions, but generous showers also fell at many places in the valleys and foot-hills. Several observers made special mention of the force of the wind which preceded or accompanied the precipitation. Among the stations so reporting were Brawley, Gray Mountain and Riverside. At the latter point the rain which followed the blow totalled over an inch and fell in one and one-half hours. At various places where no rain fell the wind raised heavy sand or dust storms. Among the latter was Fontana, where the maximum wind was reported as reaching a velocity of 48 miles an hour, causing a sand storm and some slight damage to the bean crop. Hail occurred at some places in the mountains, and some of the creeks were reported swollen as the result of the heavy rains in the upper water-sheds. The only other periods in which thunderstorms were generally reported were the 4th, 14th-15th and 31st, but scarcely any precipitation was recorded in connection with them.

Temperatures, while averaging above normal over the State as a whole, were most noticeably so along the coast and in the coast range of mountains. They were actually below normal in the upper Sacramento Valley, parts of the Siskiyou Mountains and throughout the southern portion of the Sierra. There were the usual hot spells in the great interior valleys, notably from the 26th to 31st when the temperature ranged from 8 to 16 degrees above normal in the Sacramento and San Joaquin.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea-level, was 29.89 inches.

The highest was 30.16 inches at Eureka on the 9th.

The lowest was 29.63 inches at Red Bluff on the 31st.

The range for the State was 0.53 inch.

TEMPERATURE.

The monthly mean temperature for the State was 74.2 degrees, which is 1.4 degrees above the normal.

The highest monthly mean was 93.2 degrees at Mammoth Tank and the lowest was 55.3 degrees at Fordyce Dam.

The highest temperature, 120 degrees, occurred at Indio on the 19th and the lowest was 25 degrees at Cahuilla on the 5th.

The range for the State was 95 degrees.

PRECIPITATION.

The average precipitation for the State was 0.06 inch or 0.02 inch below the normal.

The greatest monthly amount was 1.83 inches at Julian while none occurred at 198 stations.

The greatest amount in 24 hours was 1.73 inches at Julian on the 26th.

No snow fell at any station.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—Alturas, 14, 15, 22; Angels Camp, 31; Arrowhead Springs, 26; Ben Lomond, 31; Cahuilla, 26; Camp-

bell, 31; Campo, 26; Chester, 14, 15, 23, 24; Converse Nursery, 4, 26, 27; Corona, 26; Covelo, 15, 24; Deer Creek, Electra, 31; Escondido, 26; Glennville, 29; Happy Camp, 15, 22, 24; Hayfork, 15, 22-25; Independence, 30, 31; Hullville, 25; La Jolla, 26; La Porte 24; Lick Observatory, 31; Lindsay, 30; Lone Pine, 29; Los Gatos, 31; Madeline, 25-27; Mesa Grande, Mill Creek No. 2, 26; Milton, 31; Mineral, 14, 15, 22-24; Mokelumne Hill, 31; Montague, 24; Nellie, 26; North Bloomfield, Oakdale, 31; Oak Grove, 26; Oceanside, 27, 28; Rialto (near), Riverside, 4, 26; Ruth, 24; Sacramento, 31; San Bernardino, 26; San Jose, Stockton, S. H., 31; Tejon Rancho, 26; Three Rivers, 30; Watsonville, 31; Yreka, 15, 16.

Earthquakes.—Mineral, 6; Spreckels, 5.

RELATIVE HUMIDITY.—(Per Cent.)

STATIONS.	5 A. M.	5 P. M.	Mean.
Eureka.....	94	82	88
Fresno.....	55	17	36
Los Angeles.....	89	57	73
Mount Tamalpais.....	43	38	40
Red Bluff.....	54	20	37
Sacramento.....	80	29	54
San Diego.....	92	76	84
San Francisco.....	92	73	83
San Jose.....	86	50	68
San Luis Obispo.....	88	51	70

SUNSHINE AND CLOUDINESS.

STATIONS.	Actual Hours of Sunshine.	Percent of the Possible.
Eureka.....	139	33
Fresno.....	418	100
Los Angeles.....	328	79
Mount Tamalpais.....	413	98
Red Bluff.....	416	98
Sacramento.....	394	93
San Diego.....	318	77
San Francisco.....	273	65
San Jose.....	359	85
San Luis Obispo.....	340	82

WIND MOVEMENT.—(Miles.)

STATIONS.	Total Movement for Mo.	Avr. Hr. Vel.	Max. Vel.	Dir.	Date.
Eureka.....	3734	5.0	19	n	2
Fresno.....	5918	8.1	22	nw	31
Independence.....	3992	5.4	33	se	26
Los Angeles.....	3691	5.0	21	e	26
Mount Tamalpais.....	10759	14.5	69	n	3
Point Reyes.....	18808	25.3	60	nw	10
Red Bluff.....	2868	3.9	13	n	2
Sacramento.....	5740	7.7	19	s	23
San Diego.....	4399	5.9	20	nw	18
San Francisco.....	8433	11.3	36	sw	2
San Jose.....	2960	4.0	19	nw	3
San Luis Obispo.....	2462	3.3	12	nw	11

The prevailing direction of the wind for the State was west.

Climatological Data for August, 1915.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				Number of days.			Prevailing direction of wind.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Snowfall (unmelted), inch or more.	Precipitation on inch or more.	Clear.			Partly cloudy.	Cloudy.	
Alturas	Modoc	4,400	11	79.3		103	28†	35	6†	61	0.12	-0.11	0.12	0	1	24	7	0	sw.	Prof. C. B. Towle.	
American Camp	Tuolumne	3,200	15	77.2		101	29	58	1	39	0.00	0	0.00	0	0	31	0	0	nw.	U. S. Forest Service.	
Angiola	Tulare	208	15	75.3	-2.4	110	29	42	25	69	0.00	0	0.00	0	0	31	0	0	sw.	Santa Fe Co.	
Antioch**	Contra Costa	46	36	89.8	+9.3	106	27	62	20	20	0.00	-0.02	0.00	0	0	31	0	0	sw.	Southern Pacific Co.	
Aptos	Santa Cruz	102	80	64.2	+2.8	78	30	54	20	36	0.00	-0.04	0.00	0	0	31	0	0	sw.	do	
Arrowhead Springs	San Bernardino	2,000	6	79.4		101	4†	53	22	36	0.47		0.47	0	0	30	1	0	sw.	John Jurgens.	
Auburn	Placer	1,360	44	80.0	+4.1	103	25	52	5	37	0.00	-0.02	0.00	0	0	28	2	1	nc.	Southern Pacific Co.	
Avalon	Los Angeles	30	5	66.4		78	29	55	8	16	0.01		0.01	0	1	27	4	0	w.	T. S. Manning.	
Azusa	do	540	13	78.2	+4.4	113	29	49	16	60	0.00	-0.08	0.00	0	0	30	1	0	w.	A. C. G. Fruit Exchange.	
Bagdad	San Bernardino	784	12	92.0	-2.8	114	11†	71	15	33	0.00	-0.46	0.00	0	0	30	0	1	n.	Santa Fe Co.	
Bakersfield	Kern	404	26	80.2	-2.8	109	29	47	24	52	0.00	-0.01	0.00	0	0	31	0	0	sw.	do	
Barstow	San Bernardino	2,105	12	88.0	+0.2	105	3†	57	16	41	0.00	-0.15	0.00	0	0	30	1	0	w.	E. L. White.	
Berkeley	Alameda	317	28																sw.	State University.	
Betteravia	Santa Barbara	155	2																n.	Union Sugar Co.	
Biggs**	Butte	98	16	85.6	+8.2	115	28	64	23		0.00	-0.02	0.00	0	0	31	0	0	n.	Southern Pacific Co.	
Bishop	Inyo	4,450	20	70.6	-1.2	100	21†	41	15	54	0.00	-0.21	0.00	0	0	31	0	0	sw.	Paul E. Lodge.	
Bishop Creek	do	8,500	5	63.4		88	30	35	2	45	0.10		0.10	0	0	27	0	4	sw.	do	
Blocksburg	Humboldt	1,700	9	70.6		104	28	43	29	48	0.00		0.00	0	0	30	1	0	nw.	Victor Hope.	
Blue Canon	Placer	4,685	16																sw.	Southern Pacific Co.	
Blythe	Riverside	2,068	6	88.3		117	10†	59	8†	54	T.		T.	0	0	22	7	3	n.	C. L. Smith.	
Branscomb	Merced	2,000	15	87.2	+1.9	98	28	42	4†	40	0.00	-0.04	0.00	0	0	27	3	1	n.	A. J. Hann.	
Brawley	Imperial	-105	5	89.6†		115†	19	62†	14	41	0.20		0.20	0	1	27	0	0	sw.	M. D. Witter	
Bridgeport	Mono	6,500	1	60.5		90	26†	31	7	53	0.31		0.14	0	3	15	9	7	w.	A. F. Scott.	
Burney	Shasta	3,300	5	64.4		99	28	34	5	57	0.00		0.00	0	0	27	3	1	sw.	Mrs. M. L. Chambers.	
Cahuilla	Riverside	3,600	4	61.8		100	20	25	5	68	0.00		0.00	0	0	30	0	1	sw.	Dr. W. L. Shawk.	
Calico	Imperial	0	10	90.5	+0.9	117	19	64	23†	41	0.06		-0.64	0.06	0	1	30	0	1	sw.	J. E. Peck.
Caliente**	Kern	1,200	39	81.9	-1.2	105	29†	60	25†		0.00	-0.01	0.00	0	0	30	0	1	sw.	Southern Pacific Co.	
Calistoga**	Napa	363	43	68.7	-1.6	106	29	50	23†		0.00	-0.01	0.00	0	0	31	0	0	sw.	do	
Campbell	Santa Clara	217	18	65.9	+1.6	97	28	44	6	41	T.		-0.04	T.	0	0	27	4	0	nw.	F. M. Righter.
Camptonville (near)	Yuba	3,500	8	74.6		100	28	52	7	38	0.00		0.00	0	0	31	0	0	sw.	Cal. Gas and Electric Co.	
Canon Dam	Plumas	4,570	1	68.6		104	28	42	7	55	0.05		0.05	0	0	26	5	0	sw.	K. W. Roberts.	
Cedarville	Modoc	4,675	21	73.8†	+5.3	103†	29†	49†	3	45†	0.00	-0.28	0.00	0	0	25	6	0	sw.	T. H. Johnstone.	
Centerville	Butte	490	1	74.2		104	28†	50	5†	50	0.00		0.00	0	0	31	0	0	sw.	Pacific Gas & Electric Co.	
Chico	do	189	45	79.2	-2.3	110	28†	52	5	50	0.00	-0.02	0.00	0	0	31	0	0	sw.	G. H. Stephenson.	
China Flat	Humboldt	690	6	73.8		103	28	43	6†	47	0.00	-0.08	0.00	0	0	28	2	1	sw.	O. I. Westberg.	
Chino**	San Bernardino	714	23	74.2	-2.2	102	26†	56	16†		0.00	-0.10	0.00	0	1	22	4	5	w.	Southern Pacific Co.	
Cisco**	Placer	5,939	44								0.00	-0.03	0.00	0	0	31	0	0	sw.	do	
Claremont	Los Angeles	1,200	23	75.8	+2.8	106	30	48	1	48	0.01	-0.04	0.01	0	1	24	6	1	w.	Prof. F. P. Brackett.	
Cloverdale	Sonoma	340	13	74.0	+3.9	108	28	48	5†	51	0.00	0	0.00	0	0	29	2	0	n.	John O. Ogle.	
Coalinga	Fresno	663	3	76.4		112	30	40	23†	59	0.00		0.00	0	0	31	0	0	w.	Producers Trans. Co.	
Colfax	Placer	2,421	44	75.0	-1.5	101	30	55	7	34	0.00	-0.02	0.00	0	0	31	0	0	sw.	Southern Pacific Co.	
Colusa	Colusa	60	12	75.0	+0.5	105	28	55	14†	41	0.00	-0.01	0.00	0	0	31	0	0	sw.	C. D. McComish.	
Converse Nursery	San Bernardino	6,000	1	64.4		85	19	41	14	35	0.52		0.52	0	1	27	3	1	w.	Edw. N. Mumms.	
Corning**	Tehama	277	29	84.6	+3.5	99	3†	70	20†		0.00	-0.02	0.00	0	0	31	0	0	sw.	Southern Pacific Co.	
Corona	Riverside	615	1	76.4		107	19	51	24†	50	0.27		0.27	0	1	27	4	0	nw.	J. W. Garthwaite.	
Crescent City	Del Norte	125	1	61.9	+5.7	86	18	46	6	35	0.00	-0.52	0.00	0	0	29	0	2	nw.	Thos. F. Peacock.	
Cuyamaca	San Diego	4,677	16	69.8	+3.8	94	19	43	16	41	0.45	-0.19	0.45	0	1	29	1	1	sw.	Cuyamaca Water Co.	
Davis	Deer Creek	690	6	73.8	+1.5	112	28	49	18†	56	0.00	-0.01	0.00	0	0	31	0	0	sw.	S. H. Rockett.	
Deer Creek	Nevada	3,700	8	67.1		96	28†	42	7†	48	0.00		0.00	0	0	31	0	0	w.	Cal. Gas and Electric Co.	
Del Monte	Monterey	25	4																sw.	H. R. Warner.	
Delta	Shasta	1,188	30	73.6	-2.8	105	28	42	6	42	0.00	-0.03	0.00	0	0	31	0	0	sw.	Southern Pacific Co.	
Denair	Stanislaus	126	15	75.6	+0.1	103	29	52	8	42	0.00	0	0.00	0	0	31	0	0	sw.	Santa Fe Co.	
De Sable	Butte	2,500	11	71.6		101	28	48	7†	45	0.00	0	0.00	0	0	30	1	0	sw.	Cal. Gas and Electric Co.	
Dobbins (near)	Yuba	1,650	11	78.9	+0.3	106	28†	58	6†	40	0.00	-0.01	0.00	0	0	28	3	0	s.	do	
Downieville	Sierra	3,150	4	70.2		104	28	40	7	57	0.00		0.00	0	0	29	2	0	n.	J. T. Mason.	
Dudley	Kings	595	3	84.2		112	29	62	13†	31	0.00		0.00	0	0	30	0	0	sw.	Producers Trans. Co.	
Dudleys	Mariposa	3,000	6	67.4		97	29	41	12	48	T.			0	0	30	1	0	nw.	W. H. Dudley.	
Dunlap (near)	Fresno	2,800	3																sw.	U. S. Forest Service.	
Dunlap**	Yolo	65	38	91.6	+11.9	118	29	65	23		0.00	-0.01	0.00	0	0	28	0	3	sw.	Southern Pacific Co.	
Dunsmuir	Siskiyou	2,285	26																sw.	do	
Durham	Butte	160	20																sw.	R. W. Durham.	
East Park	Colusa	1	1	77.8		109	28	49	4	50	0.00		0.00	0	0	30	1	0	sw.	J. J. Lea.	
Edison	Kern	2,500	1																sw.	So. Cal. Edison Co.	
El Cajon	San Diego	482	16	74.2	+0.7	102	10†	51	17	49	T.	-0.11	T.	0	0	30	1	0	sw.	H. H. Kessler.	
Electra	Amador	725	11	76.2	-2.1	105	29	52	7	45	0.00	0	0.00	0	0	31	0	0	sw.	Cal. Gas and Electric Co.	
Emigrant Gap	Placer	5,230	41																sw.	Southern Pacific Co.	
Escondido	San Diego	657	21	73.9	+1.7	104	30	46	17	47	0.04	-0.04	0.04	0	1	17	14	0	w.	A. R. Moon.	
EURKA	Humboldt	64	29	57.8	+2.0	66	11	49	4	14	0.00	-0.14	0.00	0	0	4	13	14	n.	U. S. Weather Bureau.	

Climatological Data for August, 1915.—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Snowfall), Number of days (Precipitation of inch or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

Climatological Data for August, 1915.—Continued.

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 (unmelted).	Precipitation 0.1 inch or more.	Clear.	Partly cloudy.		Cloudy.	Prevailing direction of wind.
Sierraville	Sierra	5,000	5	60.6	—	96	28†	34	2†	55	0.27	—	0.27	0	1	26	3	2	sw.	C. D. Johnson.
Sisson	Siskiyou	3,555	26	68.4	—0.2	99	18	39	60	0.00	—0.33	0.00	0	0	31	0	0	n.	Southern Pacific Co.	
Soledad**	Monterey	188	41	73.1	+8.0	93	3	60	23	0.00	0	0.00	0	0	31	0	0	n.	do	
Sonora	Tuolumne	1,825	4	62.6	—	90	27	44	4†	36	0.00	—0.01	0.00	0	0	25	4	2	w.	Chas. P. Jones.
Spreckels	Monterey	48	1	62.6	—	90	27	44	4†	36	0.00	—0.01	0.00	0	0	25	4	2	w.	Spreckels Sugar Co.
Springville	Tulare	4,000	8	68.3	—	97	29	41	1	50	0.00	—0.01	0.00	0	0	29	2	0	s.	Mrs. Claire McGeorge.
Squirrel Inn	San Bernardino	5,280	5	67.0	—	86	19	47	14	31	1.05	+0.91	1.05	0	1	30	1	0	w.	A. D. Frantz.
Stanwood	Butte	3,140	11	70.4	—1.5	100	28	48	14†	46	0.00	—0.01	0.00	0	0	30	1	0	w.	Cal. Gas and Electric Co.
Stirling City	do	3,525	11	73.0	—	103	28	49	21	49	0.00	—0.10	0.00	0	0	31	0	0	se.	Butte Co. R. R. Co.
Stockton (S. H.)	San Joaquin	23	44	75.7	—3.2	100	19†	53	7	40	0.09	—0.01	0.00	0	0	30	1	0	nw.	State Hospital.
Storey	Madera	296	15	77.8	—0.8	107	29	50	13†	45	0.00	0	0.00	0	0	31	0	0	n.	Santa Fe Co.
Suisun**	Solano	20	38	74.2	+3.5	103	28	60	14†	45	0.00	—0.03	0.00	0	0	19	0	12	nw.	Southern Pacific Co.
Sulphur Banks	Lake	1,350	3	74.0	—	106	28	46	11	50	0.00	—	0.00	0	0	26	0	5	sw.	M. S. Walters.
Sunmit	Placer	7,017	42	59.7	—0.6	82	29	29	1	42	T.	—0.11	T.	0	0	29	0	2	sw.	Southern Pacific Co.
Susanville	Lassen	4,175	26	71.2†	+2.2	99	29	45†	9	53†	0.00	—0.25	0.00	0	0	30	1	0	w.	G. H. Taylor.
Tahoe	Placer	6,500	1	61.2	—	89	29	37	6	45	T.	—	T.	0	0	28	3	0	w.	Mrs. Northrup A. Pomin.
Tamarack	Alpine	8,000	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Cal. Gas and Electric Co.
Tohama**	Tehama	220	44	80.8	—0.5	103	28	65	2	—	0.00	—0.04	0.00	0	0	—	—	—	—	do
Tejon Rancho	Kern	1,500	12	83.0	+4.4	102	30	63	15†	29	0.00	—0.05	0.00	0	0	30	1	0	—	W. B. de Millier.
Three Rivers	Tulare	870	5	78.6	—	105	29	53	1	45	0.00	—	0.00	0	0	29	2	0	sw.	J. H. Pierce.
Towle	Placer	3,704	29	69.7	+1.2	97	30	48	7	40	0.00	—0.01	0.00	0	0	30	1	0	s.	Southern Pacific Co.
Tracy**	San Joaquin	64	35	81.6	+4.1	106	28†	56	23	—	0.00	—0.01	0.00	0	0	—	—	—	—	do
Truckee	Nevada	5,819	44	62.8	—0.6	101	28	33	7	62	T.	—0.11	T.	0	0	30	0	1	se.	do
Tustin (near)	Orange	125	1	72.2	—	101	30	50	19	39	T.	0	T.	0	0	31	0	0	w.	Irvine Co.
Twin Valley	Lake	—	—	71.6	—	108	29	40	5	56	0.00	—	0.00	0	0	30	1	0	w.	U. S. Forest Service.
Ukiah	Mendocino	620	22	73.1	+2.4	107	28	45	6†	54	0.00	—0.01	0.00	0	0	30	0	1	nw.	Dr. George McCowen.
Upper Lake	Lake	1,350	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	G. M. Hammond.
Vacaville	Solano	175	27	74.2	—0.3	100	27	47	—	58	0.00	—0.03	0.00	0	0	31	0	0	—	J. E. Bassford.
Valley Springs**	Calaveras	673	26	81.4	+3.5	110	29	60	12†	—	0.20	+0.19	0.20	0	1	30	1	0	nw.	Southern Pacific Co.
Visalia	Tulare	334	27	78.2	—0.2	106	29	51	14	49	0.00	0	0.00	0	0	31	0	0	nw.	Santa Fe Co.
Walnut Creek	Contra Costa	149	1	69.8	—2.3	104	28	44	4	44	0.00	—0.19	0.00	0	0	—	—	—	—	R. L. Nougaret.
Warner Springs	San Diego	3,165	7	75.2	—	103	19	45	14†	47	0.77	—	0.77	0	—	30	0	1	—	J. A. Ream.
Wasco	Kern	336	15	81.4	+1.8	108	30	57	8	43	0.00	—0.02	0.00	0	0	29	0	2	se.	Santa Fe Co.
Watsonville	Santa Cruz	23	19	61.4	—0.8	88	7†	38	4†	45	0.05	+0.04	0.05	0	1	8	18	5	s.	Spreckels Sugar Co.
Weaverville	Trinity	2,162	3	70.3	—	105	29	42	4	58	0.00	—0.11	0.00	0	0	28	1	2	—	U. S. Forest Service.
Weitchpec	Humboldt	1,700	5	69.0	—	98	19†	43	3	43	0.00	—	0.00	0	0	27	1	3	nw.	G. S. Garnett.
West Branch	Butte	3,216	1	69.6	—	104	28	42	7	51	0.00	—	0.00	0	0	31	0	0	n.	Cal. Gas and Electric Co.
Westley**	Stanislaus	90	26	82.9	+3.7	109	29	60	5†	—	0.00	0	0.00	0	0	31	0	0	n.	Southern Pacific Co.
Wheatland	Yuba	84	28	77.5	+2.4	107	28	56	7	41	0.00	—0.03	0.00	0	0	27	4	0	s.	Wm. Lombard.
Willows	Glenn	136	36	80.6	—1.0	112	28	55	5	46	0.00	—0.03	0.00	0	0	31	0	0	sw.	F. E. Barnhouse.
Yorba Linda	Orange	405	1	74.8	—	104	30	50	19	44	0.01	—	0.01	0	1	31	0	0	w.	S. J. Walker.
Yosemite	Mariposa	3,948	11	—	—	—	—	—	—	—	0.00	—0.25	0.00	0	0	31	0	0	—	J. P. Kelly.
Yreka	Siskiyou	2,625	26	—	—	103	29	—	—	—	0.02	—	0.02	0	1	21	6	4	nw.	U. S. Forest Service.
Means and Extremes..				74.2	+1.4	120	19	25	5	68	0.06	—0.02	1.05	0	0	28	2	1	w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

** 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.

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

A BRILLIANT AURORA.

(DR. S. D. TOWNLEY, Stanford University.)

In the early morning hours of June 17, 1915 (civil time) a beautiful aurora was seen from Mount Hamilton. It was first noticed shortly after mid-night and became most brilliant at about 2:30 (P. S. T.). The illumination extended from 15° to 30° west of north to 80° or 90° east of north. The streamers reached half way to the zenith, up into the Milky Way about Cassiopeiae. A few of the streamers were as long as 60° and the forms were changing constantly. There was a distinct crimson color in the east, just over Copernicus Peak as seen from near the 12-inch dome.

An aurora in California, at least in the region around San Francisco Bay, is a very rare phenomenon and I have no recollection of ever having seen one in this region before.

COMPARATIVE DATA FOR AUGUST.
(MEAN MONTHLY TEMPERATURE FOR THE STATE.)

1897	73.9	1907	71.0
1898	74.5	1908	73.3
1899	70.8	1909	72.1
1900	71.0	1910	72.5
1901	75.6	1911	70.1
1902	71.8	1912	70.2
1903	72.6	1913	74.8
1904	73.9	1914	72.1
1905	73.4	1915	74.2
1906	73.6		

(AVERAGE PRECIPITATION FOR THE STATE.)

1897	0.03	1907	0.11
1898	0.02	1908	0.12
1899	0.11	1909	0.19
1900	0.02	1910	0.01
1901	0.12	1911	0.00
1902	0.06	1912	0.06
1903	0.02	1913	0.30
1904	0.17	1914	0.02
1905	0.03	1915	0.06
1906	0.13		

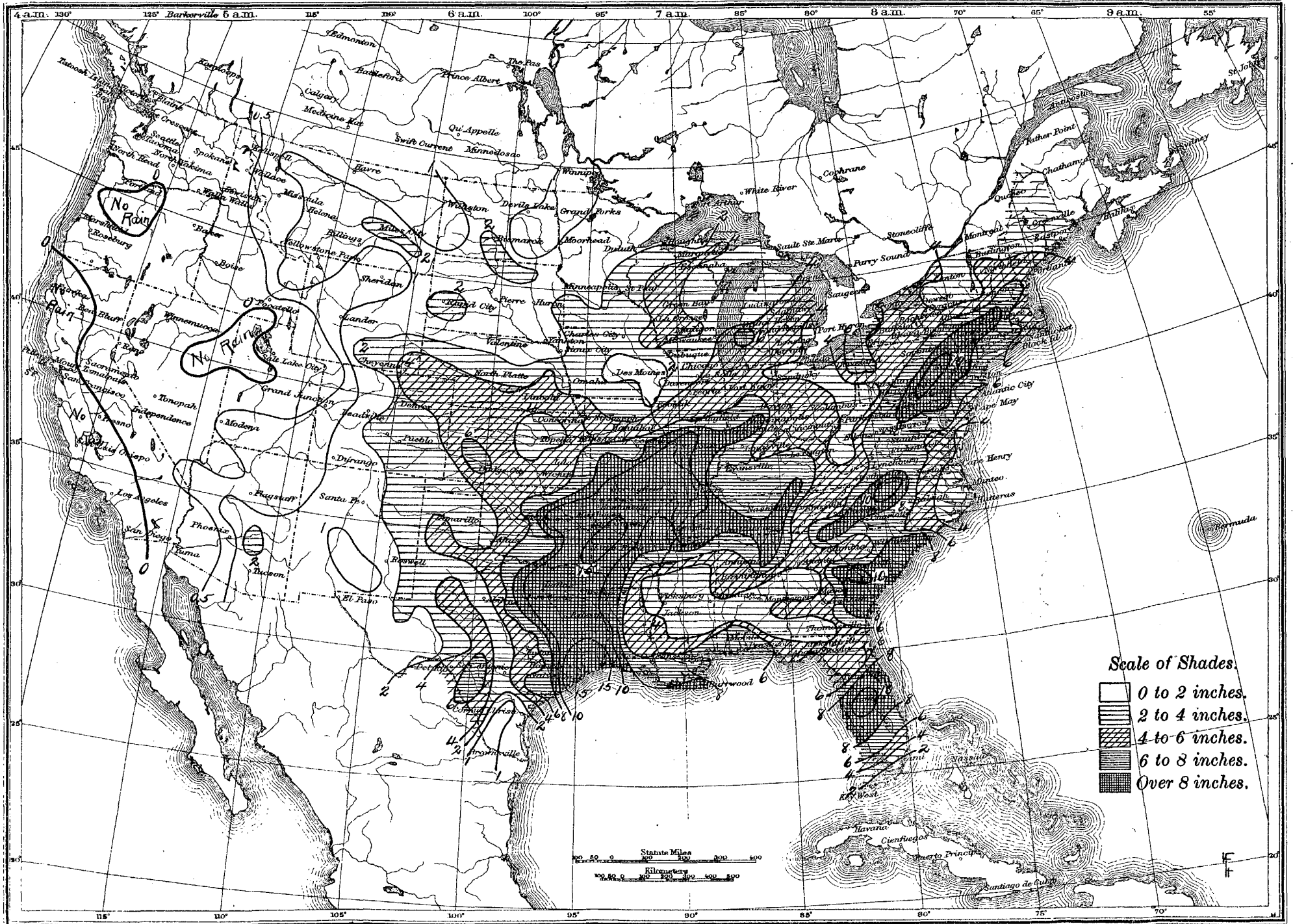
DELAYED REPORTS.

Stations.	Month.	Temperature.					Total precipitation.
		Mean.	Max.	Date.	Min.	Date.	
Abbotts	June.						0.00
Glenn Ranch	"						0.00
Lone Pine	"	73.6	95	9†	42	11	0.00
Abbotts	July.						0.00
Antelope Valley	"						0.00
Fort Ross	"						0.07
Glenn Ranch	"						0.00
Lone Pine	"	75.7	98	12†	47	4	T.
Lyon Valley	"	67.2	110	22	32	4	0.00
Madeline	"	65.4	92	24	40	7	0.15
Mitchell Mill	"						0.00
Oak Grove	"	65.6	94	23	37	15	0.00
Seven Oaks	"	62.3	90	23	33	15	0.00
Susanville	"	67.8	95	21†	38	6	0.35

Daily Temperature for August, 1915.

Table with columns for Stations, 1-31, and Mean. Rows list various California locations such as Alturas, Bakersfield, Barstow, etc., with their corresponding temperature data for each day of the month.

Total Precipitation, Inches, August, 1915.





The influence of the diversified topography of California upon its precipitation is shown by the lines of equal rainfall in inches, on the accompanying relief map.