

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

# CLIMATOLOGICAL DATA

CALIFORNIA SECTION  
EDWARD H. BOWIE, SENIOR METEOROLOGIST

Vol. XXXI SAN FRANCISCO, JULY, 1927 No. 7

## GENERAL SUMMARY

July 1927, in California, was characterized by high day temperatures, low humidity and an abundance of sunshine throughout the interior of the State. In the southern coast section the usual number of cloudy or foggy mornings was experienced, but in the central and northern coast districts there was more than the usual cloudiness and fog with sub-normal day temperatures. In the Sacramento and San Joaquin valleys the sunshine ranged from 96 to 100 percent of the possible amount for the month.

The mean temperature for the State, was slightly above normal. The day temperatures in southern California and in the interior of northern California were generally higher than usual, but owing to the prevalence of clouds and fog in the central and northern coast sections, they were mostly sub-normal. The night temperatures were generally subnormal in the Sacramento Valley, the northern Sierra and central and northern coast districts; and above normal in the San Joaquin Valley and southern California. The highest temperature reported, was 125 degrees, at Greenland Ranch, on the 19th; and the lowest, was 22 degrees, at Helm Creek, on the 4th. The highest temperatures generally occurred during the second and third decades, and the lowest temperatures in the first decade. Both the highest and the lowest temperatures reported during the month, have been exceeded several times in the last 30 years.

The precipitation was nearly normal, and was mostly in the form of scattered thundershowers in the mountain regions, in Sonoma County and in the desert region of the extreme southeastern portion of the State. During the third decade numerous thunderstorms were reported in the extreme northeastern portion of the State, the northern portion of the Coast Range, in the Siskiyou Mountains and in the southern Sierra; and in the second decade in the mountain regions of southern California.

There were no damaging wind or hail storms.

Weather conditions throughout the month were generally favorable for the advancement of all crops, except the ripening of prunes and the drying of apricots was retarded by the prevailing low temperatures in the San Francisco Bay district. Pastures and ranges continued to provide sufficient feed for stock. There was ample water for power and irrigation purposes.

G. H. W.

## PRESSURE

The mean sea-level pressure, determined from the records of 9 regular Weather Bureau stations, was 29.94 inches. The highest was 30.30 inches at Eureka on the 8th; the lowest was 29.66 inches at Fresno and Red Bluff on the 14th; the range for the State was 0.64 inch.

## TEMPERATURE

The monthly mean temperature for the State, as shown by the records of 96 stations was 73.5°, which is 1.0° above the normal.

The highest monthly mean was 106.1°, at Greenland Ranch; and the lowest was 52.6° at Helm Creek.

The highest temperature, 125°, occurred at Greenland Ranch on the 19th; and the lowest, 22°, occurred at Helm Creek on the 4th.

The range for the State was 103°.

## PRECIPITATION

The average precipitation for the State, as shown by the records of 248 stations, was 0.05 inch, or 0.02 inch below the normal.

The greatest monthly amount was 1.41 inches, at Yreka; and the least monthly amount was 0.00, at many stations.

The greatest amount in 24 hours was 1.31 inches at Yreka on the 31st.

## 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.....	93	83	88	217	47
Fresno.....	49	14	32	446	100
Los Angeles.....	78	49	64	374	85
Red Bluff.....	49	16	32	442	97
Sacramento.....	81	23	54	436	96
San Diego.....	90	71	80	342	78
San Francisco.....	92	73	82	279	62
San Jose.....	..	49	..	375	84
San Luis Obispo.....	94	53	74	344	78

## WIND MOVEMENT—(Miles)

Stations	Total mov. for month	Ave. hr. velocity	Maximum velocity	Direction	Date	Prev. dir.
Eureka.....	5,396	7.3	30	n.	11	n.
Fresno.....	6,052	8.2	23	n.w.	2	n.w.
Los Angeles.....	3,614	4.9	17	w.	21	s.w.
Red Bluff.....	3,398	4.6	20	n.w.	12	se.
Sacramento.....	6,205	8.3	27	s.	2	s.
San Diego.....	4,938	6.6	23	n.w.	5	n.w.
San Francisco.....	6,227	8.4	35	w.	9	w.
San Jose.....	4,827	6.5	22	n.w.	2	n.w.
San Luis Obispo.....	2,734	3.7	11	s.	12	n.w.

## COMPARATIVE DATA FOR JULY

Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.	Year	Mean temp.	Ave. precip.
1897....	74.5	0.01	1905....	74.8	0.01	1913....	73.1	0.46	1921....	74.0	0.05
1898....	81.4	T	1906....	76.8	0.04	1914....	72.4	0.06	1922....	73.4	0.15
1899....	77.9	T	1907....	73.1	0.03	1915....	72.7	0.06	1923....	71.4	0.05
1900....	75.9	T	1908....	76.4	0.04	1916....	70.3	0.31	1924....	71.3	0.01
1901....	76.9	0.01	1909....	71.2	0.05	1917....	75.8	0.08	1925....	73.9	0.15
1902....	72.8	0.07	1910....	75.5	0.10	1918....	71.5	0.07	1926....	74.0	0.07
1903....	71.2	0.03	1911....	74.1	0.10	1919....	72.4	0.01	1927....	73.5	0.05
1904....	72.2	0.03	1912....	71.0	0.06	1920....	71.7	0.06	.....	.....	.....

Daily evaporation (inches) and wind movement (miles) for July  
(See temperature and precipitation data on two following pages)

Stations	Data	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	
Alvarado(nr)**	Evaporation.....	.338	.295	.285	.231	.230	.332	.236	.238	.234	.312	.291	.211	.282	.252	.247	.217	.217	.185	.241	.216	.210	.268	.272	.229	.218	.210	.221	.225	.237	.213	.206	7,599
	Wind movement.....	127	165	160	120	88	172	129	149	71	189	141	70	187	195	128	170	133	87	190	150	141	93	168	192	124	142	150	136	155	162	180	4,455
Chula Vista***	Evaporation.....	.188	.241	.187	.198	.270	.237	.274	.242	.231	.222	.250	.260	.245	.224	.196	.231	.243	.204	.154	.245	.246	.269	.253	.230	.198	.232	.242	.255	.246	.197	.225	7,135
	Wind movement.....	75	106	90	65	109	99	107	91	90	87	121	121	91	88	85	117	96	129	79	81	97	97	91	111	74	88	88	102	113	143	127	3,058
FallRiverMill***	Evaporation.....	.405	.577	.345	.347	.406	.420	.275	.355	.365	.389	.343	.380	.381	.413	.366	.425	.446	.434	.390	.397	.393	.415	.484	.431	.460	.462	.341	.387	.259	.417	.447	12,376
	Wind movement.....	54	112	94	39	24	89	134	74	41	59	34	36	48	59	77	86	61	73	51	61	34	49	76	55	65	81	46	66	54	57	25	1,914
Oakdale (near)*	Evaporation.....	.450	.545	.519	.406	.390	.450	.494	.485	.472	.460	.491	.486	.506	.589	.486	.403	.439	.491	.437	.555	.420	.445	.560	.625	.455	.432	.448	.526	.473	.458	.413	14,819
	Wind movement.....	110	140	245	165	140	100	180	165	165	150	130	180	130	190	230	230	210	135	145	185	170	135	145	200	230	235	260	185	195	173	210	5,465
Tahoe****	Evaporation.....	.290	.300	.240	.160	.160	.230	.260	.270	.200	.230	.220	.260	.200	.200	.230	.230	.300	.310	.240	.230	.260	.290	.300	.290	.220	.230	.200	.230	.290	.290	7,810	
	Wind movement.....	81	87	108	98	106	85	85	108	84	84	72	73	63	73	98	73	92	91	94	93	94	80	69	79	95	86	83	80	78	101	97	2,695

\* Observations taken at 7 a.m.; \*\* at 7:20 a.m.; \*\*\* at 7:30 a.m.; \*\*\*\* at 8:00 a.m. † Included in the next following entry.

Climatological Data for July, 1927

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 (un-melted)	Precipitation, .01 inch or more	Clear			Partly cloudy	Cloudy
Alvarado (near)	Alameda	5	2	62.8	.....	92	1	51	18	35	0	.....	0	0	0	24	7	0	nw.	Leslie California Salt Co.
Antioch	Contra Costa	46	48	74.2	+ 3.0	108	12	48	17	46	0	.....	0	0	0	28	3	0	w.	L. J. Vanderbunt
Auberry	Fresno	2,050	11	78.4	+ 1.2	102	13	45	2	45	0	-0.06	0	0	0	31	0	0	n.	San Joaquin & Eastern Ry.
Auburn	Placer	1,360	56	80.4	+ 3.4	104	13	60	12	36	0	-0.01	0	0	0	29	2	0	e.	Southern Pacific Co.
Bakersfield	Kern	404	38	83.8	+ 2.4	108	23	58	11	49	0	-0.02	0	0	0	30	1	0	nw.	Santa Fe Co.
Berkeley	Alameda	299	40	59.1	+ 2.9	72	14	51	4	21	T.	-0.02	0	0	0	7	14	10	w.	State University
Blue Canyon	Placer	4,695	28	71.6	+ 7.4	106	23	42	16	54	0	-0.08	0	0	0	29	2	0	s.	Southern Pacific Co.
Blythe	Riverside	268	18	92.3	+ 2.1	116	17	65	1	46	0.02	-0.33	0.02	0	0	19	11	1	sw.	Palo Verde Water Co.
Bonita	San Diego	110	11	71.4	+ 0.9	91	15	52	5	39	0	.....	0	0	0	31	0	0	w.	R. M. Allen
Brooks	Butte	350	6	80.0	.....	112	12	45	20	42	0	.....	0	0	0	28	3	0	w.	U. S. Bureau Plant Ind
Chico	San Diego	189	57	78.0	- 0.9	108	13	51	120	50	T.	-0.04	0	0	0	28	3	0	nw.	Western Salt Works
Chula Vista	Sonoma	8	8	66.7	.....	77	12	57	12	16	0	.....	0	0	0	28	0	0	.....	John O. Ogilvie
Cloverdale	Sonoma	340	25	71.3	+ 0.5	109	12	46	3	52	0.01	-0.03	0.01	0	0	29	0	2	.....	Southern Pacific Co.
Colfax	Placer	2,421	56	77.6	+ 2.8	99	12	50	3	32	0	-0.05	0	0	0	31	0	0	n.	U. S. Weather Bureau
Colusa	Colusa	60	23	77.8	+ 1.0	106	13	52	13	46	0	-0.02	0	0	0	31	0	0	se.	G. H. Lamphere
Corona	Riverside	1,050	13	77.1	+ 1.4	112	18	50	5	56	0	-0.03	0	0	0	29	2	0	w.	C. A. Vaile
Crescent City	Del Norte	125	28	59.4	+ 1.6	79	13	43	4	30	0.04	-0.36	0.04	0	1	.....	.....	.....	n.	Thos. E. Peacock
Davis	Yolo	51	55	74.9	+ 0.3	110	23	45	14	55	0	-0.01	0	0	0	28	3	0	.....	Prof. S. H. Beckett
Downeyville	Sierra	3,150	15	67.0	- 1.6	98	12	37	14	52	0	-0.16	0	0	0	29	2	0	.....	John T. Mason
El Cajon	San Diego	550	28	75.4	+ 2.4	101	15	52	14	49	T.	-0.08	0	0	0	29	2	0	sw.	Eugene P. Kessler
Elsinore	Riverside	1,300	30	79.6	+ 1.3	112	18	52	31	53	0.06	-0.04	0.06	0	1	30	1	0	s.	Hardy Lusik
Escondido-1	San Diego	750	33	72.2	+ 0.1	95	5	50	14	45	T.	-0.04	0	0	0	26	4	1	w.	H. L. Harlow
EUREKA	Humboldt	64	40	55.6	+ 0.1	62	24	48	28	10	0	-0.11	0	0	0	3	14	14	.....	U. S. Weather Bureau
Fall River Mills (near)	Shasta	3,340	3	68.5	.....	98	22	39	7	49	T.	.....	0	0	0	29	2	0	nw.	Mt. Shasta Power Co.
Folsom	Sacramento	252	34	78.6	+ 1.0	108	13	52	5	46	0	-0.01	0	0	0	29	1	1	s.	Pacific Gas & Electric Co.
Fordeyce Dam	Nevada	6,500	20	59.6	+ 0.4	84	12	34	14	40	0	-0.27	0	0	0	29	2	0	sw.	Pacific Gas & Electric Co.
Fort Bidwell	Madoc	4,735	38	69.7	+ 1.4	95	22	42	14	44	0.09	-0.21	0.09	0	1	22	5	4	.....	C. R. Tedious
FRESNO	Fresno	293	39	82.8	+ 0.7	106	22	58	4	38	0	.....	0	0	0	30	1	0	nw.	U. S. Weather Bureau
Giant Forest	Tulare	6,360	5	65.3	.....	85	19	44	4	32	T.	.....	0	0	0	27	1	0	.....	Supt. National Park
Greenland Ranch	Inyo	-178	16	106.1	+ 4.6	125	19	62	1	56	0	-0.06	0	0	0	28	0	3	.....	Pacific Coast Borax Co.
Hanford	Kings	249	27	82.2	+ 2.4	107	23	56	12	44	0	.....	0	0	0	31	0	0	.....	Santa Fe Co.
Healdsburg	Sonoma	110	33	68.9	- 0.4	108	12	41	18	61	0.06	+0.02	0.06	0	1	28	3	0	.....	Dr. F. J. Kinley
Hollister	San Benito	284	53	63.7	- 1.1	90	22	44	13	39	0	-0.03	0	0	0	31	0	0	w.	Grangers' Union
Hullville	Lake	1,925	19	73.4	+ 2.4	105	12	40	4	53	0	-0.06	0	0	0	24	6	1	sw.	T. H. Belterton
Huntington Lake	Fresno	7,000	11	62.6	+ 1.7	82	13	41	4	34	0	-0.11	0	0	0	30	0	1	.....	San Joaquin & Eastern Ry.
Imperial	Imperial	-66	7	91.7	.....	114	11	68	12	43	T.	.....	0	0	0	26	3	2	.....	M. J. Dowd
INDEPENDENCE	Inyo	3,957	29	78.5	+ 0.4	103	13	48	4	45	0.10	-0.02	0.10	0	1	19	9	3	nw.	U. S. Weather Bureau
Indio	Riverside	-20	49	90.9	+ 1.3	112	110	67	13	43	0.57	+0.53	0.41	0	2	24	2	5	se.	U. S. Bureau Plant Ind.
Inskip	Butte	4,808	20	72.0	+ 3.8	94	12	46	13	32	0	-0.16	0	0	0	30	1	0	.....	Mary E. Stokes
La Porte	Plumas	5,000	33	61.0	- 0.6	86	112	33	4	45	0	-0.18	0	0	0	28	3	0	sw.	Wm. Schulz
Lemon Cove	Tulare	600	32	81.2	+ 0.5	107	113	54	3	45	0	-0.01	0	0	0	29	2	0	nw.	Frank McGee
Lick Observatory	Santa Clara	4,209	38	73.6	+ 4.1	90	22	49	13	30	0	-0.01	0	0	0	29	2	0	nw.	Lick Observatory
Lindsay	Tulare	384	13	81.0	+ 0.6	106	113	51	4	45	0	.....	0	0	0	29	2	0	nw.	Basil Prior
Litchfield	Lassen	4,000	5	67.6	.....	95	22	40	14	47	0.15	.....	0.10	0	0	23	1	0	w.	G. T. Logan
Long Beach	Los Angeles	50	6	70.0	.....	89	18	56	3	28	T.	.....	0	0	0	31	0	0	.....	Chamber of Commerce
LOS ANGELES	Los Angeles	293	50	72.1	+ 1.9	92	18	56	31	25	T.	.....	0	0	0	23	8	0	sw.	U. S. Weather Bureau
McCloud	Siskiyou	3,270	16	68.8	+ 1.9	94	22	36	8	50	0.32	-0.02	0.32	0	1	27	4	0	s.	McCloud River Lbr. Co.
Marysville	Yuba	61	56	77.5	- 0.3	107	112	53	13	44	T.	.....	0	0	0	29	2	0	s.	Southern Pacific Co.
Merced	Merced	173	53	82.6	+ 3.6	106	113	58	30	45	0	-0.01	0	0	0	31	0	0	.....	Santa Fe Co.
Milton (near)	Calaveras	660	36	79.0	+ 0.9	106	12	48	3	43	0	.....	0	0	0	28	3	0	nw.	J. H. Southwick
Mount Shasta	Siskiyou	3,555	38	63.0	+ 3.2	91	21	33	5	48	T.	-0.15	0	0	0	29	2	0	s.	Southern Pacific Co.
Mount Wilson	Los Angeles	5,850	10	74.2	+ 1.3	97	18	56	13	28	T.	-0.04	0	0	0	26	3	2	s.	Solar Observatory
Napa	Napa	60	33	63.6	+ 3.2	85	22	45	14	37	0	-0.01	0	0	0	31	0	0	.....	State Hospital
Needles	San Bernardino	477	35	94.1	+ 0.4	114	11	69	1	40	0.62	-0.21	0.24	0	3	20	3	8	.....	Santa Fe Co.
Nevada City	Nevada	2,580	35	69.8	+ 1.0	98	112	38	4	51	T.	-0.04	0	0	0	22	8	1	sw.	B. H. Preston
*Norden	Placer	6,371	34	65.5	- 3.5	87	112	33	15	45	0	-0.21	0	0	0	25	2	0	w.	Southern Pacific Co.
Oakdale (near)	Stanislaus	307	32	77.2	- 0.8	106	23	43	3	50	0	.....	0	0	0	31	0	0	nw.	San Joaquin Irr. Dist.
Oakland	Alameda	322	51	61.8	- 1.4	83	12	53	17	27	0	-0.02	0	0	0	27	3	1	sw.	Shant Observatory
Ojai	Ventura	900	21	74.8	+ 2.8	110	18	46	11	54	0	-0.01	0	0	0	29	2	0	w.	W. H. Duncan
Orland	Glenn	254	44	82.4	+ 1.4	111	13	54	3	44	T.	-0.02	0	0	0	30	1	0	s.	U. S. Rec. Service
Oroville (near)	Butte	250	43	79.2	+ 0.1	110	122	49	3	52	0	-0.02	0	0	0	26	5	0	sw.	C. J. Edwards
Palo Alto	Santa Clara	57	4	64.8	.....	87	5	47	14	38	T.	.....	0	0	0	25	6	0	nw.	John A. Squire
Pasadena	Los Angeles	805	18	75.6	+ 3.7	104	18	51	14	47	0	-0.03	0	0	0	29	1	1	sw.	Morris S. Jones
Paso Robles-1	San Luis Obispo	825	40	71.6	+ 1.1	106	118	44	4	56	0	.....	0	0	0	30	0	1	sw.	Mrs. A. Z. Campbell
Petaluma	Sonoma	9	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Landis
Placerville	El Dorado	1,925	38	69.0	+ 3.2	100	112	38	4	53	0	-0.02	0	0	0	21	10	0	w.	J. R. Johnson
Pomona	Los Angeles	870	14	74.6	+ 3.8	107	18	47	4	53	0	-0.01	0	0	0	20	11	0	sw.	



Daily Temperature for July, 1927

Table with 32 columns for stations (1-31) and a Mean column. Rows list various California cities like Bakersfield, Chico, Escondido, etc., with their daily temperature ranges.

SUPPLEMENTAL PRECIPITATION TABLE

Table with 12 columns: Stations, Drainage-basin, Precip. inches. Lists precipitation data for various locations such as Abbots, Arunga, Amago, etc.