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U. S. DEPARTMENT OF COMMERCE
LUTHER H. HODGES, Secretary
WEATHER BUREAU
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In Cooperation With
DEPARTMENT OF WATER RESOURCES
STATE OF CALIFORNIA

CLIMATOLOGICAL DATA

CALIFORNIA

JUNE 1961

Volume 65 No. 6



ASHEVILLE: 1961

CALIFORNIA - JUNE 1961

Precipitation: Only the Northeast Interior Basin received precipitation during June that was near normal; all other areas were deficient in moisture. Of the 560 stations reporting, 227 reported no rainfall whatsoever.

Seasonal precipitation for the 12 months ending in June was greater than normal in the area north and west of Red Bluff and in a few local areas of the Southeast Desert Basins. Alturas, in the northeast, received only 66 percent of normal; only 1 year in 14 can be expected to be this dry. Precipitation in Sacramento amounted to 83 percent of normal. Salinas received only 57 percent of the seasonal normal; only 1 year in 25 can be expected to be this dry. The Los Angeles total was only 33 percent of normal, and here, too, precipitation this light can be expected to occur only 1 year in 25. Burbank reported the lowest seasonal precipitation total of record. Their total for the past 36 months was only 23.43 inches, compared with a normal of 41.64 inches for that period. Los Angeles had the driest season of record, 4.48 inches against a normal of 12.37 inches. San Diego, too, had the driest season of record and the driest three-year seasonal period of record, 3.46 total for the past 12 months, and 16.19 for the past 36 months, against a 36-month normal of 32.58 inches.

Temperature: Over most of the State this was one of the warmest Junes of record, though it was exceeded at some points in 1960. In the Northeast Interior Basins this month was even warmer than the same month last year. Departures from normal in the several drainage areas ranged from +2.8° on the South Coast to +6.5° in the Northeast Interior. New records were set at many points; the following examples from first-order station tabulations are typical. Red Bluff set

new maximum temperature records for the 14th, 15th, 16th, and 20th and new records for warm minimums on the 15th, 17th, and 25th. A reading of 113° on the 15th is the highest ever recorded so early in the season, and maxima of 102° or higher on 14 consecutive days set a new record for June. At Sacramento new maximum records were established on the 14th, 15th, 16th, and 21st, and new high minimum records on the 14th and 15th and the previous high minimum equalled on the 16th. Temperatures of 100° or higher were recorded on 8 days, against a previous June high of only 3 days.

San Francisco Airport measured 106° on the 14th, to set a new all-time high record. New record high readings were noted at Fresno on the 15th, 16th, and 21st, and previous readings were equalled on the 14th. Bakersfield set a new high record for June with 113° on the 15th and 16th and a new record high minimum for any month of 84° on the 25th. At Sandberg there were 19 consecutive days with above normal temperature, with the departure amounting to 23° on the 15th and 16th.

Hot Weather Damage: Abnormally high temperatures from the 13th through the 17th in central California burned fruit and vegetable crops, resulting in direct losses estimated at several millions of dollars and indirect losses equally as great.

C. Robert Elford
Weather Bureau State Climatologist
557 Federal Office Building
50 Fulton Street
San Francisco 2, California

MONTHLY EXTREMES

Highest Temperature 125° on the 21st+ at Death Valley.

Lowest Temperature 11° on the 1st at White Mountain 2.

Greatest Total Precipitation 2.06 inches at Davis Creek.

Least Total Precipitation 0.00 at 227 stations.

Greatest One-day Precipitation 1.42 inches on the 2d at Mount Hebron Ranger Station.

Greatest Total Snowfall 8.0 inches at Bishop Union Carbide.

Deepest Snow on Ground 100 inches on the 1st at Mount Shasta Ski Bowl.

CLIMATOLOGICAL DATA

CALIFORNIA JUNE 1961

Table with columns for Station, Temperature (Average, Decurves, Highest, Date, Lowest, Date, Degrees Days), and Precipitation (Total, Departure, Greatest Day, etc.). Rows include North Coast Drainage, Division, and Sacramento Drainage stations.

See Reference Notes Following Station Index

DAILY PRECIPITATION

CALIFORNIA
JUNE 1961

Continued

Station	Total	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			
VOLCANOVILLE	.53	.46	.07								.09	T																							
VOLLMERS	.79	.08	.50	.06		T																													
VOLTA RM	.54	.02	.32																																
WALLACE	.00																																		
WALMAR SCHOOL	.01	.01										T																							
WALNUT CREEK 2 ESE	.04	.04																																	
WALNUT CREEK 4 E	.04	.04																																	
WALNUT PATROL STA FC102C	.00																																		
WARNER SPRINGS	.00																																		
WASCO	.00																																		
WATSONVILLE WATERWORKS	.18	.11	.07																																
WEAVERVILLE RS	.68	.09	.33	.18	.01	.07																													
WEED 1 S	1.17	.36	.23	.15	.10		.02					.21	.10																						
WESTHAVEN	.00																																		
WEST POINT 3 SW	T	T																																	
WHISKEYTOWN RES	.55	.09	.33		.11								.02																						
WHITE MOUNTAIN 1	.17	T	.10	.07		T																													
WHITE MOUNTAIN 2	.08	.04	.04									T																							
WHITE ROCK	.01	.01	T																																
WHITTIER FC 106 D	.02	.02																																	
WILLITS 1 NE	.04						.03					.01																							
WILLOWS	.44	.25	.19																																
WINTERS	.06	.06																																	
WOPFFORD HEIGHTS	.05	.06																																	
WOODFORDS	.36	.14	.17	.05																															
WOODLAND 1 WNW	.09	.08	.01										T																						
WRIGHTS	.23	.23																																	
YORBA LINDA	.00																																		
YOSEMITE NP	.10	T	.10	T																															
YREKA	1.42	.45	.03			.08						.04																							.82

CORRECTED DATA

FEBRUARY 1960	SAN MATEO	Precipitation on 1st should be 1.22; 2d, .05; 3d, .20; 4th, .02; and .08 on 19th should be on 18th. Monthly total should be 5.71.
DECEMBER 1960	INDIO U S DATE GARDEN	Min temperature on 8th should be 39 and 11th, 35. Mean min should be 38.3 and degree day total 253.
	SANDBERG PATROL STATION FC 130 B	Precipitation on 1st should be .03; 2d, .03; and monthly total .11.
ANNUAL 1960	ALAMO 1 N	Relocation of equipment on January 19, 1960 was indicated as being moved 1-12 miles SSE, but the distance should have been 0.15 mile SSE.
FEBRUARY 1961	TAHOE CITY	Delete record for entire month. See Delayed Data of the issue for corrected data.
MARCH 1961	LAKE SPAULDING	Precipitation on 2d should be .20, monthly total 9.50, departure +.04, and days with .10 or more 17.
	MIDDLEWATER	Precipitation on 28th should be .09, monthly total .53, and departure -.22.
	MOUNTAIN PASS	Min temperature on 26th should be 28.
	WARNER SPRINGS	Delete record for entire month. See Delayed Data of this issue for corrected data.
APRIL 1961	CUYAMACA	Delete max and min temperatures for period 1st through 12th, should be no record.
	MIDDLETOWN	Precipitation on 29th, 30th, and monthly total should be (*) accumulation.
	STOCKTON MOWRY BRIDGE	Evaporation on 30th should be missing and monthly total 86.79. Wind movement on 30th should be 45 and monthly total 1260.
MAY 1961	BISHOP CREEK INTAKE 2	Precipitation on 7th should be .00; 29th, .03; 30th, .02; 31st, .12; and monthly total .20.
	LAKE SPAULDING	Precipitation on 31st should be .22, monthly total 4.53, departure +1.19, and days with .10 or more 8.
	LAKE SPAULDING DAM	Delete record for entire month. See Delayed Data of this issue for corrected data.

See reference notes following Station Index.

MONTHLY SNOWFALL; SEASONAL SNOWFALL AND PRECIPITATION

CONTINUED

Season of July 1960 - June 1961

CALIFORNIA

Station	July	August	September	October	November	December	January	February	March	April	May	June	Total Snow- fall	Total Precip- itation
WOODFORDS				T	23.0	10.0	2.0	3.0	18.5	8.0	T		64.5	12.48
WOODLAND 1 WNW													0.0	12.72
WRIGHTS													0.0	26.52
YORBA LINDA													0.0	4.63
YOSEMITE NP					6.0	-		T	10.7	5.0			-	22.24
YREKA									0.8	2.3			3.1	18.81

See reference notes following Station Index.

DAILY TEMPERATURES

CALIFORNIA JUNE 1961

Continued

Table with columns for Station, Day Of Month (1-31), and Average. Rows include stations like LE GRAND, LEMON COVE, LINDSAY, LIVERMORE 2 SSW, LLANO SHAWNEE HILLS RCH, LODI, LOMPOC SEWAGE PLANT, LONG BEACH, LONG BEACH WB AP, LOS ANGELES WB AP, LOS ANGELES WB CITY, LOS BANOS, LOS GATOS, LUCERNE VALLEY 1 WSW, MADERA, MANDEVILLE ISLAND, MANZANITA LAKE, MARICOPA, MARTINEZ FIRE STA, MARYSVILLE, MECCA 3 SE, MERCED FIRE STA 2, MEYERS 4 SW, MIDDLEWATER, MILL CREEK 2, MITCHELL CAVERNS, MODESTO, MONO LAKE, MONTEREY, MONTICELLO DAM, MORRO BAY FIRE DEPT, MT DIABLO NORTH GATE, MOUNT HAMILTON, MOUNT HEBRON RS, MOUNT SHASTA WB CITY, MT WILSON FC 338B, NACIMIENTO DAM, NAPA STATE HOSPITAL, NEEDLES FAA AP.

See Reference Notes Following Station Index

DAILY SOIL TEMPERATURES

CALIFORNIA
JUNE 1961

Depth in Soil		Day Of Month																															Average
		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	
BRAWLEY 3 SW																																	
4 Inches (a)	9:00 A.M.	78	79	82	85	86	87	86	87	86	87	87	89	89	91	94	93	93	94	94	96	95	94	95	96	95	96	95	94	96	94	90.4	
	MAX MIN	97 76	94 76	101 79	106 81	109 85	109 84	109 84	109 83	110 84	110 83	109 84	110 84	111 86	111 87	115 89	116 91	118 87	116 89	115 91	118 92	115 92	118 93	118 94	117 93	115 93	118 94	119 94	110 93	120 95	118 95	118 94	116 93
8 Inches	9:00 A.M.	81	80	82	84	85	86	86	87	87	87	88	89	89	90	92	92	92	93	93	94	94	93	94	95	94	95	94	95	94	94	89.9	
	MAX MIN	85 80	84 79	86 80	88 82	90 84	91 85	91 85	92 86	92 86	93 87	93 87	94 88	95 88	97 89	98 90	98 92	98 92	98 92	99 93	99 93	99 94	99 94	99 94	100 93	100 93	100 94	98 93	100 94	100 94	100 94	100 94	89.0
12 Inches	9:00 A.M.	83	82	83	85	86	87	87	88	88	88	88	89	89	90	92	92	92	94	93	94	94	94	94	95	94	95	95	95	95	95	95	90.5
20 Inches	9:00 A.M.	82	82	82	83	84	84	84	85	85	88	86	86	87	87	88	89	89	89	90	91	91	91	91	92	92	92	92	92	92	92	87.9	
39 Inches	9:00 A.M.	80	80	80	80	80	80	80	81	81	81	81	81	81	81	82	82	82	83	83	83	84	84	84	85	85	85	85	86	86	86	82.7	
79 Inches	9:00 A.M.	77	77	77	78	78	78	78	78	78	78	78	78	78	79	79	79	79	79	79	79	80	80	80	80	80	80	80	80	81	81	81	78.9
DAVIS 1 WSW																																	
4 Inches (b)	MAX	76	79	82	86	86	84	88	88	86	90	90	88	93	95	100	104	102	96	96	99	100	102	96	98	101	94	98	93	90	93	92.4	
	MIN	67	68	70	70	70	70	70	70	70	72	74	72	75	80	83	84	82	77	78	80	82	82	79	83	85	81	80	78	74	70	75.8	
RIVERSIDE CITRUS EXPERIMENT STATION																																	
STATION 1 12 Inches (c)	MAX	61	63	64	64	64	64	65	64	65	65	66	66	68	70	72	72	72	73	74	73	72	72	74	74	75	75	75	75	76	75	69.6	
	MIN	59	59	60	61	62	61	61	62	62	62	62	63	64	65	66	68	68	68	70	70	69	69	69	70	71	72	71	71	72	72	68.0	
STATION 2 18 Inches (d)	MAX	56	56	56	57	57	56	56	57	57	57	58	62	63	63	62	62	62	63	63	63	63	63	63	64	64	65	65	65	66	66	61.0	
	MIN	55	55	56	56	56	56	56	56	56	57	57	58	61	61	61	62	62	62	62	62	62	62	63	63	63	64	64	64	65	65	65	60.1

- (a) HOLTVILLE SILTY CLAY, BARE GROUND, EXPOSED TO SUN, LEVEL SURFACE. MAXIMUM AND MINIMUM READINGS FROM THERMOGRAPH COVERING 24 HOURS ENDING AT 9:00 A.M. READINGS AT 9:00 A.M. ARE FROM MERCURY-IN-GLASS THERMOMETERS.
 (b) SANDY LOAM -- UNDER BARE GROUND SURFACE. DATA FROM SOIL THERMOGRAPH.
 (c) RAMONA SANDY LOAM. DATA FROM AIR AND SOIL THERMOGRAPH.
 (d) RAMONA SANDY LOAM -- UNDER THE EAST SKIRT OF A VALENCIA ORANGE TREE, SHADED AND UNDER REGULARLY IRRIGATED SOIL. IRRIGATION WATER ON 18-INCH DEPTH FROM 7:00 A.M. JUNE 12 TO 7:00 A.M. JUNE 14 (48 HOURS). DATA FROM AIR AND SOIL THERMOGRAPH.

SNOWFALL AND SNOW ON GROUND

Station		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
MT SHASTA SKI BOWL	SNOWFALL SN ON GND	100	96	95	94	93	90	85	80	75	70	66	60	55	50	44	40	36	34	32	30	28	24	20	15	10	8	5	3	2	T	
WHITE MOUNTAIN 1	SNOWFALL SN ON GND	T	1.0	1.0	1.0																											
WHITE MOUNTAIN 2	SNOWFALL SN ON GND	0.5	0.5		T								T																			

CLIMATOLOGICAL DATA

CALIFORNIA
DELAYED DATA

Station	Temperature												Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Long Term Mean	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Long Term Mean	Greatest Day	Date	Snow, Sleet			No. of Days				
										Max.	Min.	32° or Below	32° or Below					32° or Below	32° or Below	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
SEPTEMBER 1960 COALINGA	94.2	56.8	75.5	0.9	101	13+	49	22+	0	24	0	0	0	.00	-.06	.00		.0	0	0	0	0	0	0	0
NOVEMBER 1960 NEWARK	62.1	43.4	52.8		75	1	35	20	362	0	0	0	0	3.82				.0	0						
DECEMBER 1960 KERN RIVER PH 3 LAVA BEDS NM SUSANVILLE AP	63.2 41.5M 43.2	29.6 25.7M 20.3	46.4 33.6M 31.8	-1.3	75 53 53	22 23 19	22 11 9	31+ 5 31	568 965 1024	0 0 0	0 2 0	23 26 27	0 0 0	.09 1.70 1.00	-1.83	.82 .82 1	2 1 1	.0 3.0 T	0 6 0	0 2 0	0 3 2	0 2 1	0 0 0	0 0 0	0 0 0
FEBRUARY 1961 NEWARK S F RICHMOND SUNSET TAHOE CITY WATSONVILLE WATERWORKS	62.7M 58.5 44.0 63.1	43.8M 44.9 23.9 39.6	53.3M 51.7 34.0 51.4		69 70 58 71	27 4 23 21	33 40 12 28	27 19+ 18 28	322 366 864 378	0 0 0 0	0 0 3 0	0 0 27 1	0 0 0 0	1.12 1.35 4.07 1.57		.33 1.35 1.22 .63	2 0 12 11	.0 .0 24.0 .0	0 0 15 0	0 0 12 0	0 0 8 5	0 0 2 1	0 0 1 0	0 0 0 0	
MARCH 1961 BOWMAN DAM CLEARLAKE HIGHLANDS MECCA 3 SE NEWARK WARNER SPRINGS	45.0 58.3 79.1M 63.1 63.4	28.0 37.3 49.1M 42.9 31.0	36.5 47.8 64.1M 53.0 48.2	-2.5 -0.3	59 72 86 70 77	30 30 23 30 14+	18 28 4 8 21+	7 7 8 5 18+	877 527 52 366 316	0 0 0 0 0	1 0 0 0 21	25 6 0 0 0	0 0 0 0 0	9.56 2.63 .00 1.92 1.08	-.64	1.18 1.15 .00 .73 .48	15 15 0 15 28	71.0 .0 .0 .0 .0	23 0 0 0 0	27+	16 6 0 0 4	11 2 0 0 0	1 0 0 0 0	0 0 0 0 0	
MAY 1961 LAKE SPAULDING DAM MECCA 3 SE NORTH HOLLYWOOD SAN FERNANDO	59.3 90.8M 70.7M 74.2	36.1 61.2M 53.3M 49.2	47.7 76.0M 62.0M 61.7	-2.4	74 97 82 90	18 22+ 8 9	25 53 50 44	5 14 22+ 14+	530 0 100 105	0 0 0 1	0 0 0 0	12 19 0 0	0 0 0 0	4.37 .00 .00 T	-.22	1.40 .00 .00 T	10 0 0 4	3.6 .0 .0 .0	3 0 0 0	11 0 0 0	8 8 0 0	3 0 0 0	1 0 0 0	0 0 0 0	

DAILY PRECIPITATION

Station	Total	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		
JANUARY 1960 WHITEROCK	3.89							.08	.68	.36	.06	.48			.09	.04																		.02
AUGUST 1960 CAMPTONVILLE RS	.00																																	
SEPTEMBER 1960 CAMPTONVILLE RS COALINGA	.00 .00																																	
NOVEMBER 1960 ROBERGS LOYALTON MORGAN HILL 2 E NEWARK	10.37 2.29 3.29 3.82			.21	.19	.26				1.29	2.68	.26	T	.40	.69				.07		.05	1.48	1.90	.06							1.52			
DECEMBER 1960 BLUE LAKE REDWOOD CR KERN RIVER PH 3 LAVA BEDS NM LOYALTON MERCY HOT SPRINGS MOUNT HEBRON 11 ESE SAN ANDREAS 2 S SUSANVILLE AP SUTTER HILL RS TULFIELD	7.45 .09 1.70 1.21 1.30 2.12 1.76 1.00 1.20 .08	1.49 .09 .82 1.08 .30 * 1.29 .82 .17 .03	1.45 .09 .65 .04 .04 * .21 .02 .02 .80	.07																														
JANUARY 1961 BORRIGO DESERT PARK CALEXICO 2 NE DESCANSO RS SAN ARDO	.40 .12 .58 2.30																																	.35
FEBRUARY 1961 LOCKWOOD 2 N NEWARK S F RICHMOND SUNSET TAHOE CITY WATSONVILLE WATERWORKS	.38 1.12 1.35 4.07 1.57	.03 .08 .04 .53 .23	.33 .24 .09 .46 .23	.30																													.32	
MARCH 1961 BOWMAN DAM CLEARLAKE HIGHLANDS COYOTE CANYON FORT DICK 1 NNE GRASS LAKE HWY MNTC STA GREENVIEW HARRY L ENGLEBRIGHT DAM ROBERGS LOYALTON MECCA 3 SE MIDDLETOWN NEWARK NEWBURY PARK 4 SW SUTTER HILL RS WARNER SPRINGS	9.56 2.63 .00 20.42 1.43 1.74 5.89 7.31 1.32 .00 5.91 1.92 4.46 3.86 1.08	.26 .11 .05	.64	.78	.15	.99	.05	.59		1.18	.09	.81		.12	.60			.69	.67	.75	.59	.44	T											
APRIL 1961 COLLEGE SPRINGS COYOTE CANYON HIGHLAND SPRINGS BCH LOS PRIETOS RS NEWBURY PARK 4 SW	.76 .09 2.27 .00 .32																																	
MAY 1961 GUERNEVILLE LAKE SPAULDING DAM MARK ISLAND MECCA 3 SE MIDDLETOWN NORTH HOLLYWOOD SAN FERNANDO WHITE ROCK	.65 4.37 .23 .00 3.03 .00 T .91	.16 .42 .05 .01	.04	.78	.07																													

See Reference Notes Following Station Index

Additional information regarding the climate of California may be obtained by writing to the Weather Bureau State Climatologist, 557 Federal Office Building, 50 Fulton Street, San Francisco 2, California, or to any Weather Bureau Office near you.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall and heating degree days, also seasonal precipitation, for the preceding 12 months are carried in the June issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Divisions, as used in "Climatological Data" Table, became effective with data for January 1941.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches and wind movement in miles. Monthly degree day totals are the sums of the negative departures of average daily temperatures from 65°F.

Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" Table.

Long-term means for full-time stations (those with Weather Bureau, Weather Bureau Airport, or Weather Bureau City in the station name, and also Beaumont 1 E and San Jose) are based on the period 1921 - 1950, adjusted to represent observations taken at the present location. Long-term means for all stations except full-time Weather Bureau stations are based on the period 1931 - 1955.

Water equivalent values published in the "Snowfall and Snow on Ground" Table are the water equivalent of snow, sleet, or ice on the ground. Samples for obtaining measurements are taken from different points for successive observations; consequently occasional drifting and other causes of local variability in the snowpack may result in apparent inconsistencies in the record.

Entries of snowfall in the "Climatological Data" Table and the "Snowfall and Snow on Ground" Table, and in the "Seasonal Snowfall" Table include snow and sleet. Entries of snow on ground include snow, sleet, and ice.

Data in the "Monthly Extremes"; "Daily Precipitation" Table; "Daily Temperature" Table; and "Evaporation and Wind" Table, and snowfall in the "Snowfall and Snow on Ground" Table, when published, are for the 24 hours ending at time of observation. The Station Index shows observation times in local standard time. (During the summer months some observers take the observations on daylight saving time.)

Snow on ground in the "Snowfall and Snow on Ground" Table is at observation time for all except Weather Bureau and FAA stations. For these stations snow on ground values are at 4:00 a.m. PST, except for Bishop WB AP, Blue Canyon WB AP, and Sandberg WB which are taken at 6:00 a.m. PST, and Mt. Shasta WB City at 8:00 a.m. PST.

In the Station Index the letters C, G, H, J, and S in the "Special" column under the heading "Observation Time and Tables", indicate the following:

C Weighing Rain Gage Recording Station. Hourly precipitation values are processed for special purposes, and are published later in "Hourly Precipitation Data" Bulletin.

G "Soil Temperature" Table.

H "Snowfall and Snow on Ground" Table.

J "Supplemental Data" Table.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, will be published later in "Storage-Gage Precipitation Data" Bulletin.

No record in the "Climatological Data" Table and the "Daily Temperature" Table is indicated by no entry.

Interpolated values for monthly precipitation totals may be found in the annual issue of this publication.

- No record in the "Supplemental Data" Table; "Daily Precipitation" Table; "Evaporation and Wind" Table; "Snowfall and Snow on Ground" Table; "Daily Soil Temperature" Table; and the Station Index.

+ And also on an earlier date or dates.

* Amount included in following measurement, time distribution unknown.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

// Gage is equipped with a windshield.

AR This entry in time of observation column in Station Index means after rain.

B Adjusted to a full month.

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" Table for detailed daily record. Degree day data, if carried for this station, have been adjusted to represent the value for a full month.

R Amounts from recording gage. (These amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)

SS This entry in time of observation column in Station Index means observation made near sunset.

T Trace, an amount too small to measure.

V Includes total for previous month.

VAR This entry in time of observation column in Station Index means variable.

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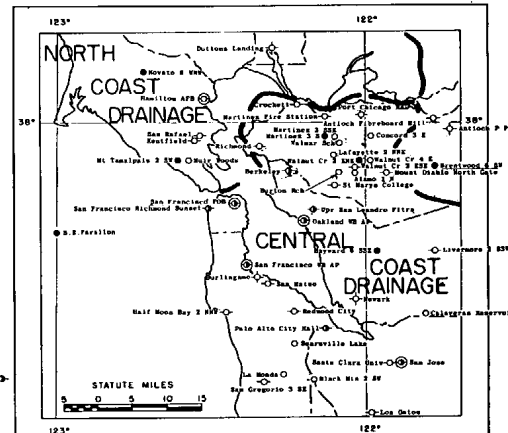
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA - NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication SUBSTATION HISTORY for this state. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. for \$1.25. Similar information for regular Weather Bureau stations may be found in the latest annual issues of Local Climatological Data, obtained as indicated above, price 15 cents.

TOTAL PRECIPITATION

CALIFORNIA PLATE I

STATUTE MILES
0 10 20 30 40 50



STATION LEGEND

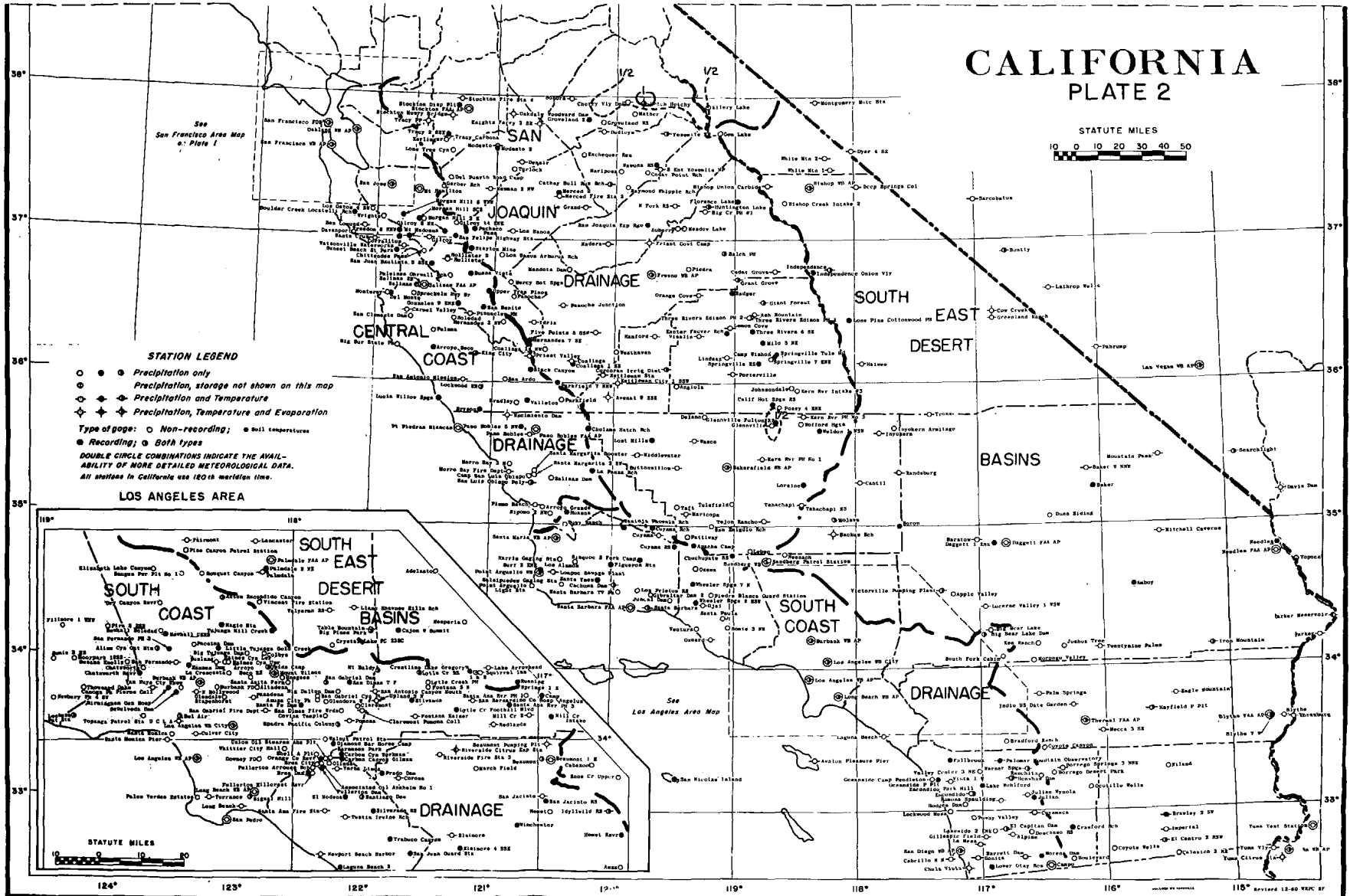
- ● ● Precipitation only
- ○ Precipitation, storage not shown on this map
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage: ○ Non-recording; ● Both temperatures
- Recording; ○ Both types.

Double circle combinations: Complete Meteorological.
DOUBLE CIRCLE COMBINATIONS INDICATE THE AVAILABILITY OF MORE DETAILED METEOROLOGICAL DATA.

All stations in California use 1820 ft meridian time.

- 210 -

JUNE 1961

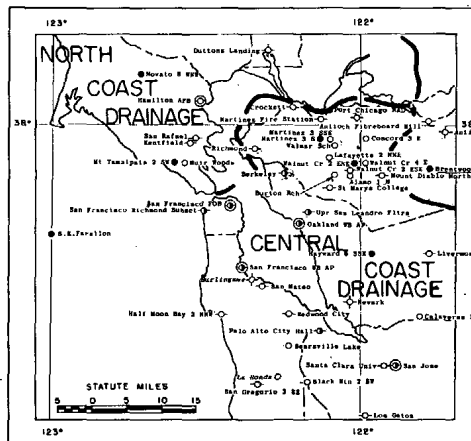


ISOLINES ARE DRAWN THROUGH POINTS OF APPROXIMATELY EQUAL VALUE. CAUTION SHOULD BE USED IN INTERPOLATING ON THESE MAPS, PARTICULARLY IN MOUNTAINOUS AREAS.

AVERAGE TEMPERATURE

CALIFORNIA PLATE I

STATUTE MILES
0 10 20 30 40 50



SAN FRANCISCO AREA



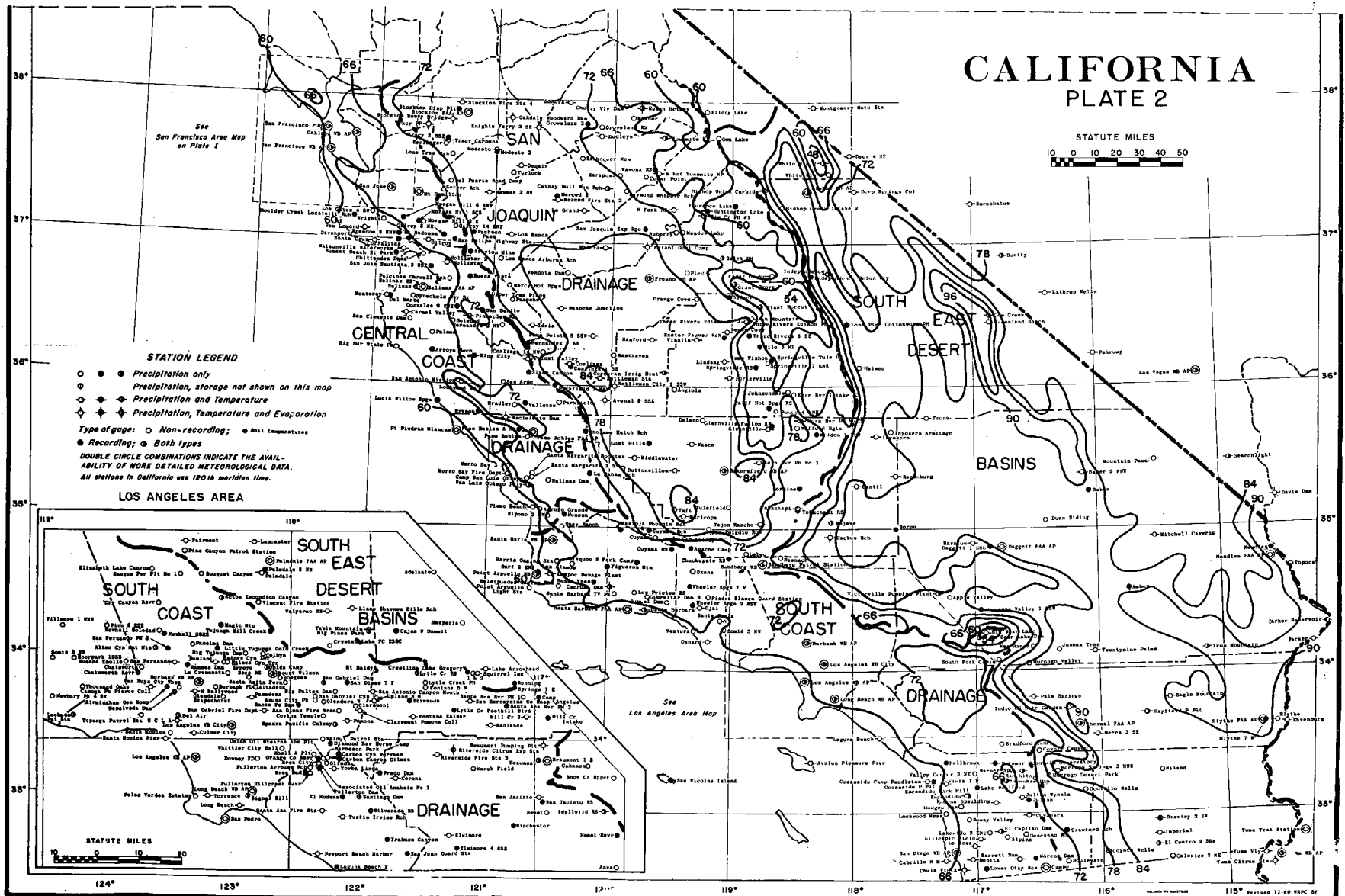
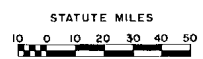
STATION LEGEND

- ● ● Precipitation only
- ○ ○ Precipitation, storage not shown on this map
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage: ○ Non-recording; ● with thermometer
- Recording; ○ Both types.

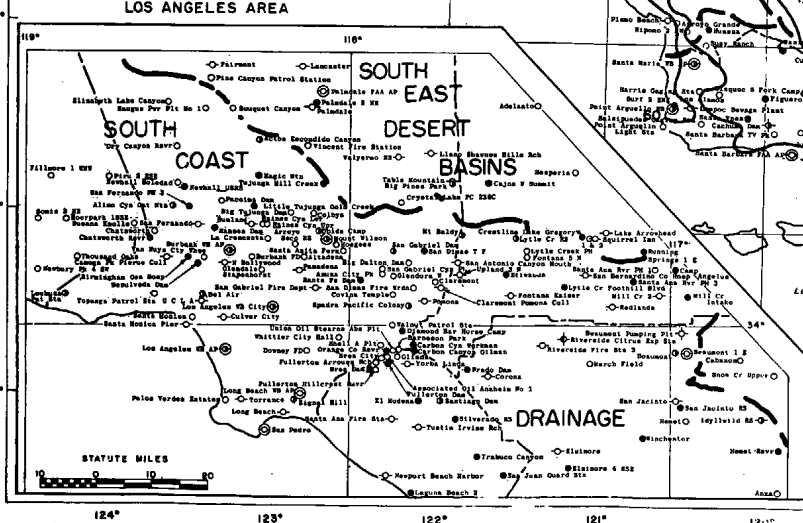
Double circle combinations: Complete Meteorological.
Double circle combinations indicate the availability of more detailed meteorological data.

All stations in California use 1901 meridian time.

CALIFORNIA PLATE 2



- STATION LEGEND**
- ● ● Precipitation only
 - ● ● Precipitation, storage not shown on this map
 - ◆ ◆ ◆ Precipitation and Temperature
 - ◆ ◆ ◆ Precipitation, Temperature and Evaporation
 - Type of gage: ○ Non-recording; ● Still temperatures
 - Recording; ○ Both types
- DOUBLE CIRCLE COMBINATIONS INDICATE THE AVAILABILITY OF MORE DETAILED METEOROLOGICAL DATA.
All stations in California use 1921A meridian lines.



ISOLINES ARE DRAWN THROUGH POINTS OF APPROXIMATELY EQUAL VALUE. CAUTION SHOULD BE USED IN INTERPOLATING ON THESE MAPS, PARTICULARLY IN MOUNTAINOUS AREAS.

STATION INDEX

CALIFORNIA 1961

Table with columns: STATION, COUNTY, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Contains station data for the left half of the page.

Table with columns: STATION, COUNTY, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Contains station data for the right half of the page.

STATION INDEX

CALIFORNIA 1961

CONTINUED

Main table with columns for STATION, COUNTY, INDEX NO., DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, and STATION, COUNTY, INDEX NO., DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER.

TO EQUIPMENT MOVED TO ROUND MOUNTAIN 1 NNE, 6/13/61. RECORDS WILL BE COMPATIBLE.

STATION INDEX

CALIFORNIA 1961

CONTINUED

Table with columns: STATION, COUNTY, INDEX NO., DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, COUNTY, INDEX NO., DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. The table lists numerous fire stations across California with their respective details.

STATION INDEX

CALIFORNIA 1961

CONTINUED

Main table with columns: STATION, INDEX NO., COUNTY, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes station names like THE CEDARS, TURLOCK MEADOWS, etc.

1 AMERICAN, 2 CALAYERAS, 3 CARSON, 4 CENTRAL COAST, 5 COLORADO, 6 DESERT, 7 EEL, 8 FEATHER, 9 KAWAIAH, 10 KERN, 11 KING, 12 KLANATH, 13 LOS ANGELES, 14 MERCED, 15 MOJAVE, 16 MOKELUMNE, 17 NORTH COAST, 18 N.E. INTERIOR, 19 OMENS, 20 PAJARO, 21 PIT, 22 RUSSIAN, 23 SACRAMENTO, 24 SALINAS, 25 SAN DIEGO, 26 SAN GABRIEL, 27 SAN JOAQUIN, 28 SANTA ANA, 29 SANTA CLARA, 30 SANTA MARIA, 31 SANTA MARGARITA, 32 SANTA YNEZ, 33 SOUTH COAST, 34 STANISLAUS, 35 TRINITY, 36 TRUCKEE, 37 TUOLUMNE, 38 WALEY.

SEE CORRECTED DATA ON PAGE 182.