

# California North Coast Grape Growers

*An Association of Growers in the North Coast Counties of Napa, Sonoma and Mendocino*

776 SOUTH STATE STREET • P.O. BOX 213

UKIAH, CALIFORNIA 95482 • (707) 462-1361

October 18, 1982

Mr. Charles Bacon  
Regulations and Procedures Division  
Bureau of Alcohol, Tobacco and Firearms  
P.O. Box 385  
Washington, D.C. 20044-0385

RE: Notice No. 404

Dear Mr. Bacon,

Realizing full well that the BATF Legal Department is reviewing a final decision on the North Coast Viticultural Area petition, I am taking the liberty to share a few pertinent excerpts with you as they appeared in the October, 1982 issue of Wines & Vines--a respected wine trade journal. In the article entitled "Lake County: potential is there" (see attached), several Lake County growers appear to have reversed themselves from testimony they provided on January 12, 1981, at the Santa Rosa hearing. At that North Coast hearing, Lake County witnesses offered testimony that their county was identical to other North Coast counties in terms of climate and geography. However, in their haste to promote the uniqueness of their Lake County region, Lake County growers are actually supporting the CNCGGA testimony that Lake County is different than Napa, Sonoma and Mendocino counties as evidenced by the following statements found in the article:

"we experience cooler temperatures at harvest time"

"Lake County's cold nights, uniformly cooler than anywhere else on the North Coast"

"the railroad still has not penetrated the rough terrain"

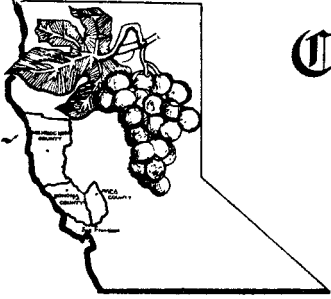
"climatic problems--a shorter season, and harsher winters and falls"

"because of our hot summers and lack of fog, we don't need as much sulphur and fungicides"

"geographic isolation"

**North Coast Grapes Produce California's Finest Wines**

CONSUMERS WHO BUY AND WILL ACCEPT NO SUBSTITUTE



# California North Coast Grape Growers

An Association of Growers in the North Coast Counties of Napa, Sonoma and Mendocino

776 SOUTH STATE STREET • P.O. BOX 213

UKIAH, CALIFORNIA 95482 • (707) 462-1361

Page 2

If the final decision on the North Coast Viticultural Area is identical to the notice of proposed rule making published by the BATF on January 11, 1982, then it appears to our Association that Lake County growers have deceived the Bureau in providing evidence that their county is no different than Napa, Sonoma and Mendocino counties. Lake County cannot have it both ways. Either Lake County is parallel to Napa, Sonoma and Mendocino counties or it is dissimilar. As evidenced by this article, Lake County growers, by their own admission, feel their region is different.

It is additionally apparent that the Lake County growers have undermined the BATF comments in the January 11, 1982, Federal Register. For example, the BATF states "the climatic evidence presented at the hearing suggests that an area other than the original three county proposal does possess a climate somewhat influenced by intrusions of cooler, damper, coastal marine air." Is the BATF willing to stand by that statement when Lake County growers admit they do not experience fog? "The Bureau feels that the petitioners failed to show how the county boundaries which they used as viticultural area boundaries had any bearing on their claim to the geographical distinctions of the proposed area." Is the Bureau inclined to hold to that conclusion when our Association provided clear evidence that a ridge of mountains (county boundary and viticultural area boundary) separates Lake County from the rest of the North Coast to the degree that the railroad has still not penetrated the isolated county by the 20th century?

I trust this information assists the BATF in making a final decision on the North Coast Viticultural Area boundaries based on factual evidence. Our hope is that the Bureau will compare the statements issued in the Wines & Vines article with the statements provided by the Lake County growers at the January 12, 1981 hearing. The results will hopefully be helpful to your agency in arriving at a final decision for the North Coast Viticultural Area.

Cordially,

Thomas Mauritsen  
President

North Coast Grapes Produce California's Finest Wines

# Lake County: potential is there

A rich history of famous people and fine wines is spurring a re-birth after a half-century

TONI SCULLY

DOMINATED by the Mayacamas Mountains on the east and Mendocino National Forest to the north, Lake County, with its southern tip extending almost to Mt. St. Helena, has a rich winemaking legacy and a potential yet to be realized. Unlike the adjacent counties of Napa, Sonoma, and Mendocino, which are at the forefront of California's winemaking regions, the Lake County industry is just emerging from over half a century of dormancy.

The county's early winemaking era was from the 1870s to prohibition and attracted farmers, vintners, and entrepreneurs from all walks of life. Seranus C. Hastings, first Chief Justice of the California Supreme Court and founder of the University of California law school which bears his name, sold his Napa Valley holdings (later to become Inglenook), and moved to Upper Lake in the 1880s, where he set out 100 acres of Zinfandel and built a 150,000-gallon winery and distillery. Romance put an end to the impressive project: Hastings closed his winery prior to 1900, emptying the casks into a gully because his young bride disapproved of the wine business.

British actress Lillie Langtry was another early Lake County winemaker; she bought 4,100 acres of Rancho Guenoc in southern Lake County in 1888. She wanted to make fine wine, and did, with the aid of an imported "Bordeaux expert," and she wanted to raise race horses, which she attempted in cooperation with her lover, who bought the neighboring ranch; most of all, however, she wanted to establish California residency and divorce her British husband, Edward Langtry. Having done that, she sold the ranch in 1906.

Equally interesting stories, minus the famous names, abound. Take the case of the Spring Valley Water Company. It was own-

ed by a group of San Franciscans intent on impounding Clear Lake water for use in that city. When the scheme was foiled, the group turned to grape growing. In 1882 it planted 300 acres in the Lower Lake Township and later constructed a winery. The wooden structure was set against a hillside near Cache Creek, into which they dug a tunnel to use as an aging cellar.



Orville Magoon of a pioneer Hawaiian family tells an Opening Crowd about Guenoc.

Financially, the project was a disaster, a full puncheon commanding about the same price as an empty one. To make matters worse, the tunnel entrance caved in, forcing the company to admit defeat and give up winemaking. Their finest hour occurred posthumously; years later workmen unearthed a cask of Zinfandel at the site. A flock of wine merchants from San Francisco converged upon Lower Lake to sample the wine, pronounced as one of the finest Zinfandels ever to be made in California.

Unconcerned with establishing a regional reputation in an era when appellations were

unheard of, early Lake County vintners were content to sell most of the wine from the area's 5,000 acres of vines and 36 wineries to their southern neighbors in Napa County for bottling. In spite of the lack of promotional ambition, however, there is documentation of the quality of the early wines.

In 1884 the State Viticultural Convention appointed a committee of experts (among them, Prof. Eugene W. Hilgard, a leader in scientific winemaking) to evaluate a group of wines. They found the young Lake County vintages possessed "delicacy of expression and perfection in composition necessary to develop an acceptable table wine." Their evaluation included such terms as "beautiful," "full-bodied," and "elegant flavor with stout construction," many of the same terms that critics associate with Lake County wines today.

Records from the 12th District Fair in Ukiah in 1888 and 1892 show that Lake County wine growers swept all the awards, featuring such names as L.P. Berger's Lakeport Zinfandel, Justice Hastings' Carsonia Riesling, and J.C. Mottier's Middletown Claret. Furthermore, Charles M. Hammond, a neighbor of Hastings in Upper Lake, won a gold medal at the 1893 World's Columbian Exposition in Chicago for the "best exhibit of two-year-old dry white and red wines." He also won top honors at the Paris Exposition in 1900.

Honors and recognition did not give rise to profits, however. Lake County winemakers, who never had the advantage of a railhead, had to haul their wine over mountain roads to Hopland or Calistoga, where they received as little as eight cents a gallon for their trouble. While prohibition dealt the final blow, high transportation costs and depressed wine prices had already closed most Lake County wineries. Vineyards languished as farmers turned their energy toward more lucrative crops such as Bartlett pears and walnuts.

The area's wine industry lay dormant a half-century until the mid 1960s when the impending wine boom, coupled with the region's viticultural history, saw the beginning of a slow but determined comeback. Today, there are about 3000 acres of winegrapes. But with only five Lake County wineries in operation, most of the wine is still being produced outside the county.

Lake County conditions are considered ideal for Cabernet Sauvignon grapes, and today 38% of the plantings are of that cultivar. Although the Cabernets have lived up to winemakers' expectations, producing elegant, full-bodied vintages with low tannin and drinkable early, plantings from



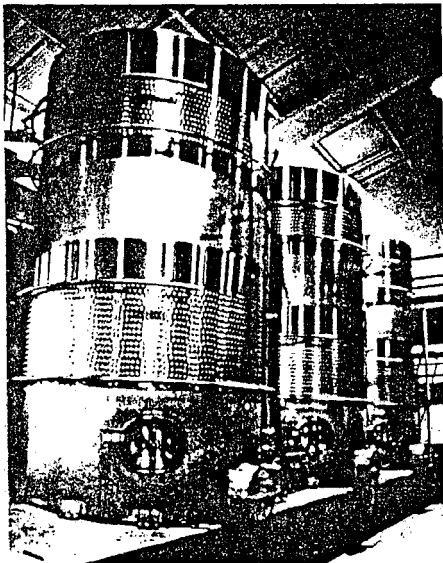
The home of British actress Lillie Langtry at Guenoc has been refurbished into a showplace. Langtry adds romance to the Lake County tradition; she was a winemaker, too.

the late Sixties and early Seventies were ill-timed; they came into production just in time to contribute to California's red grape glut. One result has been the development of White Cabernets with a light color that belies their red grape origin, because, as one vintner explained, "It's the heat that pulls the color out of the skins, and we experience cooler temperatures at harvest time."

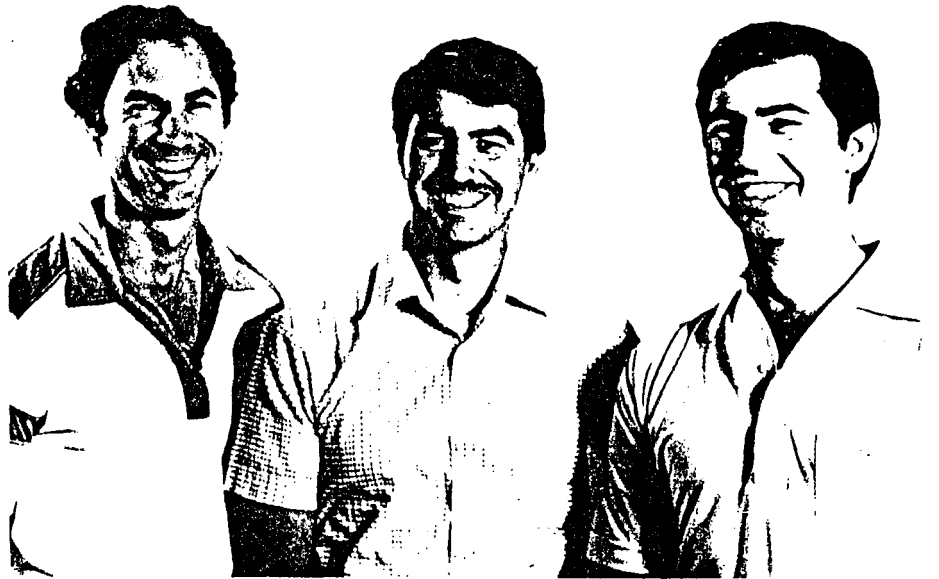
The weak red grape market also has resulted in extensive topworking, with nearly 200 acres of Cabernet Sauvignon being converted to white varieties since 1977. Vintners agree that the Sauvignon Blanc is, at this time, the region's outstanding white variety, and also, at 16.5% of the total county acreage, the most widely produced white. Other predominant plantings, in decreasing order of production, are Zinfandel, Napa Gamay, White Riesling, Chenin Blanc and Chardonnay. Growers are experimenting with small plots of at least 19 other varieties.

Much research remains to be done before the full potential unfolds. For instance, vintners are producing very good White Rieslings although early researchers did not expect much success because of the summer heat. One explanation is that the Davis scale of heat summation, which places Lake County in a high II to low III region, relies on average temperatures. This does not take into account Lake County's cold nights, uniformly cooler than anywhere else on the North Coast and seeming in some varieties to offset the daytime heat. Predictions based on degree days also fail to note specific patterns in which the heat and cold occur, namely, late springs peaking to hot Julys, with sharply cooler temperatures by harvest time.

The wide range of soils makes predictions with regard to specific varieties even more difficult. Volcanic hillsides give way to terrace soils such as Manzanita loam and Redvine, while rich bottomland Lupoyoma,



"State of the art" equipment at the Guenoc Winery includes Mueller stainless fermentation tanks, Willmes presses, oak cooperage from Limousin and Nevers, and an SWK bottling line.



The Turner triumvirate consists of three brothers, from left to right, John, Jim and Ken; they want recognition for Lake County.

Still, and Cole soils are common. It will be years before the effects are fully understood of all the soils on yields and quality of various varieties.

One persistent thorn in the side of Lake County growers and vintners is their exclusion, at the insistence of the Ukiah-based North Coast Grape Growers Association, from the North Coast appellation area. In 1973 a BATF memorandum denied use of the well-known appellation to Lake County until a hearing could be held. The promised hearing did not take place until eight years later, in 1981, after the Bureau's unilateral action had dealt a severe financial blow to the fledgling wine industry, which was selling a large portion of its crop to North Coast wineries.

More than a year and a half after the hearing, BATF still had not issued a final ruling, although last January it did publish its intention to draw North Coast boundaries which would include Lake County. While the growers are united in the feeling that the 1973 BATF action was unfair, their concern about the outcome varies. One grower who delivers to a Lake County winery commented: "Ultimately, it won't make any difference, because the Lake County appellation is going to be recognized for more consistent quality than that of the North Coast; it's just a matter of principle." Another grower, still marketing most of his crop outside the county, had a different viewpoint: "What it comes down to is a buck a bottle."

County Agricultural Commissioner Don Tompkins reports a recent increase in queries on viticultural potential and feels outside investors may be waiting for the North Coast appellation controversy to settle.

"They know the quality is here, and land values for premium winegrape acreage are substantially lower than in the other, more inflated North Coast areas," Tompkins said. "Right now, I would say that this county is wide open to premium producers." A case

in point is the Louis Martini family's purchase of 400 acres near Lower Lake in what was a prime grape growing region at the turn of the century.

Despite award-winning grapes, one big question remains: with fierce competition for shelf space and transportation costs comparatively high (the railroad still has not penetrated the rough terrain), will the five Lake County counterparts, unlike their turn of the century counterparts, be able to compete and endure?

Since none of the wineries is in full production, the best comparative indicator of size is case-release figures. The Turner Winery, with a capacity of 1,200,000 cases, released 40,000 cases in 1981. The Konocti Winery released about 20,000 cases from its 40,000-case facility. The Lower Lake Winery, smallest in the county with a 10,000-case capacity, released 3,400 cases in 1981. Two other wineries are releasing their premier offerings in 1982: The Guenoc Winery, with a 100,000-case capacity, will offer 5,000 cases this year, and Chateau du Lac, a planned 50,000-case facility, will release about 8,000 cases.

The Turner family, biggest growers in the county with 560 acres, noted the success out-of-county wineries were having with Turner raw product in the 1970s and decided to establish their own premium label. They purchased an existing Woodbridge, California, winery in the northern San Joaquin Valley in 1979, rather than assume the financial burden of a new plant in Lake. Their announced goal was to supply varietal wines at moderate prices, a void they felt existed in the marketplace. Producing both varietal and generic wines, the Turners expect to use about 70% of their grape production this year, selling the rest as raw product.

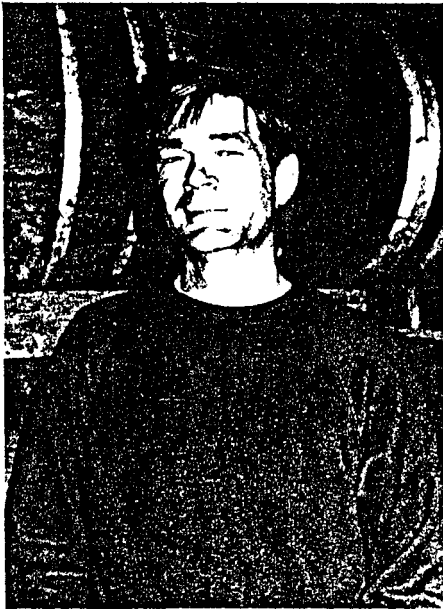
A determined family effort, the Turner operation is run by brothers John, Jim, and Ken, with financial support from their father Ivan and a fourth brother, Tom. According to Jim Turner, who oversees the

vineyards, the firm is fighting for shelf space through competitive pricing. Their 1979 Cabernet has been hailed as a best buy at \$3.75, and their 1980 Merlot (a bronze medal winner at this year's Orange County Fair) sells for the same price. Columnists also have featured their 1981 White Zinfandel as a bargain at \$4.25. Said Jim:

In 1981 it all came together for Konocti when six releases won a variety of awards.

"We are struggling for recognition as Lake County growers and as a winery. Unlike a new winery in, say, the Napa Valley, our Lake County industry has no recent reputations to lean on. So our success hinges on our product and the efficiency of our operations. Our wines are gaining recognition, but that's not enough. We have to continue to offer better wines at more reasonable prices than our competitors in order to build a market."

Turner believes that the county's winemakers will be able to meet that challenge because most vineyards in the region were installed at under \$10,000 an acre and are conservatively farmed by families. "We do have to contend with some climatic problems—a shorter season, and



Veteran winemaker Bill Pease handles enology chores at Konocti Winery.

harsher winters and falls, but climate doesn't affect the cost of disking and spraying. Also, because of our hot summers and lack of fog, we don't need as much sulphur and fungicides, which helps hold down operating costs and results in very clean fruit."

The Konocti Winery in Kelseyville has attracted a good deal of attention as a result of determination and perseverance on the

part of the 26-member Lake County Vintners (LCV) cooperative that built the facility in 1979.

Organized in 1974, LCV has experienced some lean years, most notably the disastrous marketing seasons for red grapes in 1975 and 1978, the effects of which were compounded by the capital requirements of a new winery. Plagued by the inconsistent quality of their first releases, which were custom-produced outside the county, the growers hired winemaker Bill Pease in 1979 to develop a premium line. They retained André Tchelistcheff as a consultant in 1980, and hired Paul Hessinger as marketing director in 1981.

Everything came together in 1981, when six Konocti Winery releases won a variety of awards, among them a silver medal at the Orange County Fair for a 1980 Late Harvest White Riesling. The Stanford Alumni selected a 1979 Cabernet Sauvignon for its inaugural bottling; the San Francisco Press Club chose Konocti's 1980 Blanc de Gamay for its annual honoring of wines of distinctive merit from lesser-known California premium wineries; and the San Francisco Symphony selected Konocti's 1980 Fumé Blanc to launch its wine program. The 1980 and 1981 Fumé Blancs were also awarded silver medals at the 1982 Orange County Fair.

The showplace of the county is the new Guenoc Winery, six miles out of Middletown. Overlooking the historic Guenoc Valley of Lillie Langtry fame, it is owned by Chateau Magoon-Lambert, a partnership between the Magoon family of Honolulu, which purchased the ranch in 1963, and LBC Vineyards of New York, a limited partner.

Orville Magoon directs the project, which began as a 25-acre test plot in the early 70s and has developed into 270 acres of predominantly Bordeaux varieties. In December, 1981, the BATF approved a Guenoc Valley appellation of origin, making it the only single proprietor appellation in the United States. Certainly unique in Lake County for his abundant financial backing, Magoon planned every detail in his 54,000 square-foot facility to complement the Guenoc vineyard, according to state of the art technology.

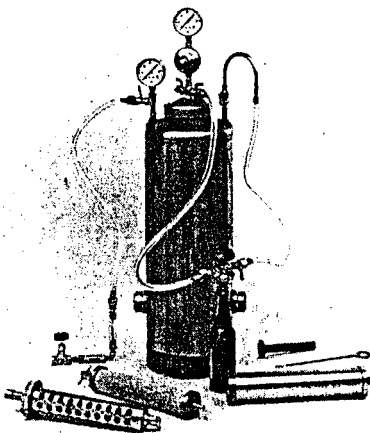
Orville Magoon feels Lake County will produce the great wines of the world.

Walter Raymond, fourth-generation winemaker from St. Helena's Beringer family, presides at the Guenoc Winery, while his brother, Roy, oversees the vineyard. Vintage Wine Merchants will distribute the wines worldwide, beginning with the first releases, a 1980 Chardonnay, a 1981 Chenin Blanc, and a 1981 Sauvignon Blanc, in September.

Orville Magoon speaks with the con-

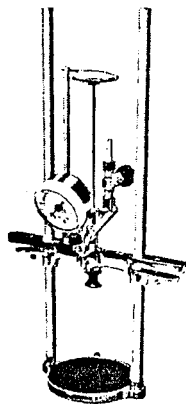
## ZAHM & NAGEL

...for Your Special Metering and Testing Needs.



### ZAHM PILOT PLANT

Filter, Carbonator and Filler. Stainless Steel Tank. Capacity—5 Gallons. CO<sub>2</sub> Valve with Flow Meter. Everything you need to Filter, Carbonate and Bottle your Experimental or Test Run.



### ZAHM MODEL D-T PIERCING DEVICE

Designed for the rapid determination of CO<sub>2</sub> in bottles and cans. Available in 1 and 2 litre sizes.

Manufacturers of:

- UNIT TANK AND LINE CARBONATORS • NON-FREEZING FERMENTATION GAS REDUCING VALVES • REGULATING AND RELIEF VALVES
- TEST INSTRUMENTS • PILOT PLANT FILTER, CARBONATOR AND FILTER UNIT

ZAHM & NAGEL CO., INC.  
74A JEWETT AVENUE • BUFFALO, NEW YORK 14214 • (716) 833-1532

fidence of a man with the resources to do things right. "We feel that Lake County is going to produce the great wines of the world. There's no question about it."

The Lower Lake Winery is the only winery in the county with no grape production. Built in 1977, it was the first winery constructed in Lake County after prohibition, and is operated by Alhambra orthopedic surgeon Harry Stuermer and his family. Harry's son, Daniel, an oceanographic chemist, is the winemaker, a job which earned him a gold medal at the 1980 Orange County Fair with a bottling from his first crush.

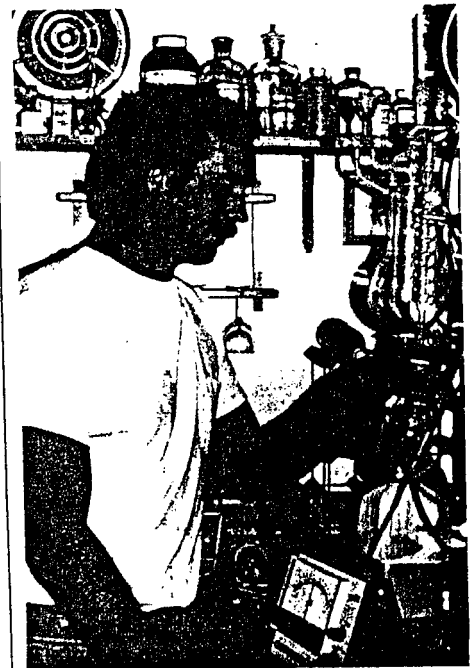
The Stuermers buy only local Cabernet Sauvignon and Sauvignon Blanc and pride

themselves on their traditional winemaking techniques. After field-crushing, Daniel monitors each batch of wine, handling every aspect himself; he ferments the reds to dryness on the skins to capture the full fruit character as well as the tannin essential to the big, rich style of Lower Lake Cabernets. He ages them in French and American oak at least two years and does a minimum of fining and handling. Stuermer's Sauvignon Blanc is given significant skin contact to extract flavor and body from the grapes, then cold fermented and aged a short time in French oak before bottling.

Although Lower Lake began with only vineyard-specific wines, in 1982 it also will

release a blend known by vintage year only. The wines are distributed nationally by Small Estates of California, and Marjorie Stuermer, the materfamilias, handles distribution in Northern California. Content with a family operation, the Stuermers founded the winery as a long term investment, and the three couples involved in the partnership draw incomes from other full-time employment.

Chateau du Lac is under construction two miles south of Lakeport. Owned by Burlingame attorney Jess Jackson, who planted a vineyard in 1974, the 20,000-case facility will be expanded to 50,000 cases in five years. In 1981 Chateau du Lac crushed at Konocti's plant and released a 1981 Napa Gamay Blanc and a 1981 White Riesling in June, with a 1981 Fume Blanc and 1981 Chardonnay scheduled for release in the fall. Jackson's winemaker, Fred Nickel, points out that the Fetzer Winery in Mendocino County has purchased most of Jackson's grapes in the past and won top honors with the resulting 1977 Gamay at the Los Angeles County Fair, as well as a gold medal at Orange County for a 1978 Cabernet Sauvignon from Jackson's grapes. Jackson is marketing his first releases personally.



Daniel Stuermer is an oceanographic chemist turned winemaker.

Lake County's winemaking renaissance has been marked by slow, plodding development rather than rapid expansion as a result of geographic isolation, unrecognized potential and difficult marketing conditions. While appreciative that the area has not suffered from over-commercialization, growers and vintners, struggling to establish a world-wide reputation, feel an infusion of new resources would give the industry a healthy boost.

As Jim Turner observed, "We are the 'undiscovered' region of California; once we establish a reputation for quality, the investors will follow." ■

## Great Taste



For many people, wine is often judged before it ever leaves the bottle.

Therefore, wine making and packaging genius make a great sales team.

And the hallmark of distinctive packaging for 90 of the world's leading vintners is a handsome, embossed wine sleeve.

Unlike aluminum foil, the richly-colored Mack-Wayne polyethylene sleeve keeps its original shape and your silk-screened or embossed message intact even after the bottle is opened.

Patented here and in Europe, only your Mack-Wayne representative has the details. Accept an appointment or call 201-696-1212. Mack-Wayne Plastics Company, Ryerson Avenue, Wayne, NJ 07470.

**MACK-WAYNE**  
PLASTICS COMPANY  
DIVISION OF THE WEST COMPANY



375

STEPHENS & WILLIAMS

PANO STEPHENS  
BURGESS WILLIAMS

ATTORNEYS AT LAW  
201 NORTH STATE STREET  
P. O. BOX 883  
UKIAH, CA 95482

TELEPHONE  
(707) 462-1996

March 3, 1982

Chief, Regulations and  
Procedures Division  
Bureau of Alcohol, Tobacco  
and Firearms  
P. O. Box 385  
Washington, D.C. 20044-0385

RE: Notice No. 404

Dear Sir:

We are submitting the following additional comments on behalf of the California North Coast Grape Growers Association in support of their petition to establish a viticultural area consisting of Napa, Sonoma and Mendocino counties.

1) Enclosed please find a copy of the March, 1981, Climatological Data bulletin published by the National Oceanic and Atmospheric Administration covering water drainage basins in the State of California. Napa, Sonoma and Mendocino counties are all part of the North Coast Drainage systems. Lake and Solano counties are part of the Sacramento Drainage basin in the Northern part of the San Joaquin Valley, which is recognized in Notice No. 404 to be a hotter region than the North Coast region. Maps of the different drainage basins are shown on the last two pages of the bulletin enclosed.

A review of Climatological Data maintained at Sonoma State University and published by the National Oceanic and Atmospheric Administration for rainfall in these regions over the years 1941-1970, shows average rainfall as follows:

Lake and Solano County Stations:	Average Rainfall:
Clearlake Highlands	28.94
Fairfield Fire Station	27.05
Lakeport	29.90
Average:	28.63 inches
Napa, Sonoma, Mendocino County Stations:	
Healdsburg	42.35
Napa State Hospital	24.80
Potter Valley	45.66
St. Helena	35.40
Santa Rosa	30.54
Ukiah	38.43
Average:	36.20 inches

Chief, Regulations and  
Procedures Division  
March 3, 1982  
Page Two

The above constitute geographic distinctions between the regions, and show how the county boundaries used by the petitioners herein are also geographical distinctions between the areas, contrary to the conclusion expressed in Notice No. 404, page 1, regarding geographical features.

2) The Northerly Mendocino County boundary of the area proposed in Notice No. 404 excludes northern areas of Mendocino County wherein grower-members of the petitioner have cultivated wine grapes in areas north of Willits, California, for many years. The northern boundary of the viticultural area should be extended northward to include such growing areas.

3) The conclusions expressed in Notice No. 404, page 2, concerning economic value of the "North Coast" appellation and lack of significant adverse effects on competition, investment and productivity are not supported by any evidence, particularly in light of the trade mark owned by petitioners and the number of years they have devoted to promoting and marketing products under that name.

We hope these additional comments and evidence are of assistance in resolving this matter. If we can provide further information in these regards we will be pleased to do so.

Yours truly,



Pano Stephens  
sh  
Enclosure  
cc: CNCGG



# Climatological Data



CALIFORNIA

REP \_\_\_\_\_  
 NO \_\_\_\_\_  
 FILE \_\_\_\_\_

## TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE:	BLYTHE FAA AIRPORT	96	DATE 25
LOWEST TEMPERATURE:	BODIE	-2	DATE 20
GREATEST TOTAL PRECIPITATION:	PIT RIVER P H 5	12.39	
LEAST TOTAL PRECIPITATION:	BAKER	.47	
GREATEST 1 DAY PRECIPITATION:	LODGEPOLE	3.75	DATE 20
GREATEST TOTAL SNOWFALL:	ECHO SUMMIT	73.0	
GREATEST DEPTH OF SNOW OR ICE:	TWIN LAKES	72	DATE 27

MB   
 MC   
 CD   
 BE   
 JK   
 HS   
 GT   
 DW

## SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION						PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET	
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER				TOTAL
							PACIFIC													
							04	10	16	22										
BAKERSFIELD WSO AP	36	1.6	4.6	22++	26	12	80	67	51	72	2	4	5	1	0	0	12	-	7.1	
BISHOP WSO AP	-	-	-	37 %	-	26+	-	43	35	-	5	4	1	1	0	0	11	-	5.4	
BLUE CANYON WSMO	17	2.1	5.1	22++	16	18	72	64	72	76	0	2	5	4	1	2	14	-	-	
EUREKA WSO CI	-	-	-	37	N	27+	-	-	-	-	3	7	9	2	0	0	21	56	7.8	
FRESNO WSO AP	36	1.1	7.0	26++	31	12	86	71	54	77	2	3	8	1	0	0	14	71	7.2	
LONG BEACH WSO AP	24	2.9	7.0	33++	27	26	82	63	57	75	3	1	1	3	1	0	9	-	5.6	
LOS ANGELES WSO AP	25	3.8	8.6	48 %	W	26	77	61	65	75	1	1	2	3	0	0	7	-	5.6	
LOS ANGELES CIVIC CENTER	-	-	-	-	-	-	-	-	-	-	0	2	1	2	2	0	7	-	-	
MOUNT SHASTA WSO CI	36	1.1	5.5	22++	34	26	74	60	51	71	2	4	9	3	0	0	18	-	-	
RED BLUFF WSO AP	24	0.7	8.6	30	NW	05	81	65	51	73	6	2	4	3	1	0	16	76	7.5	
SACRAMENTO FAA AP	19	2.2	7.8	31	NW	27+	90	75	58	80	0	2	3	3	0	0	8	78	6.6	
SAN DIEGO WSO AP	27	3.2	8.6	28	NW	26	84	69	65	80	3	6	1	1	2	0	13	70	5.6	
SAN FRANCISCO WSO AP	28	4.8	10.0	35++	29	26	81	73	65	77	2	4	6	2	0	0	14	-	7.3	
SAN FRANCISCO WSO CI	-	-	-	-	-	-	-	-	-	-	0	3	6	3	0	0	12	-	-	
SANTA MARIA WSO AP	-	-	-	-	-	-	-	69	67	84	1	3	4	1	3	0	12	-	6.4	
STOCKTON WSO AP	27	1.7	7.3	29++	27	29	90	70	56	82	0	2	8	2	0	0	12	-	7.3	
% PEAK GUST																				

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
 NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
 ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND  
 INFORMATION SERVICE

NATIONAL CLIMATIC CENTER  
 ASHEVILLE, N.C.



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

CALIFORNIA MARCH 1981

STATION	TEMPERATURE														PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.	MIN.	32° OR BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW					32° OR BELOW	TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	.50 OR MORE	1.00 OR MORE
GRASS VALLEY 2	55.3	35.0	45.2		67	12	29	17	608	0	0	10	0	8.89		1.51	19	.0	0	0	10	7	5			
HARRISON GULCH R S	57.3	30.6	44.0	1.9	71	29	21	17	643	0	0	21	0	4.37	2.39	.69	26	11.5	0	0	12	5	0			
HAT CREEK P H 1	48.4	25.4	36.9		58	10+	11	6	866	0	0	28	0	2.00	.31	.31	25	.0	0	5+	8	0	0			
JESS VALLEY LAKEPORT	62.9	36.5	49.7	1.2	75	28	28	5	468	0	0	6	0	3.30	.01	.91	15	.0	0	0	8	4	0			
LAKE SOLANO	62.5	43.2	52.9		74	29	36	20	368	0	0	0	0	3.69		1.00	16	.0	0	0	8	3	1			
LAKE SPAULDING	49.6M	27.6M	38.6M	1.0	63	10	21	3	819	0	0	28	0	9.45	.34	2.50	25	42.0	27	21	12	6	4			
MANZANITA LAKE	46.0	27.7M	36.9M		60	29	13	17	869	0	0	0	0	5.15		1.20	25	38.0	16	5	11	4	1			
MARKLEY COVE	61.8	40.3	51.1		74	29	34	30	426	0	0	0	0	3.05		.67	16	.0	0	0	8	2	0			
MARYSVILLE	65.3	43.9	54.6	.4	75	12	37	17	316	0	0	0	0	5.37	2.93	1.49	19	.0	0	0	7	5	2			
MC CLOUD	53.7	28.9	41.3	1.4	71	29	21	17	727	0	0	26	0	6.54	.78	1.57	22	3.2	10	1	12	6	1			
MINERAL	46.4	25.6	36.0	.5	58	29+	17	17	892	0	0	31	0	5.48	.59	1.26	25	28.0	9	5	12	3	0			
MOUNT SHASTA WSO CI //R	51.2	30.1	40.7	.3	66	28	20	17	748	0	0	22	0	4.00	.03	.83	15	7.2	0	1	9	3	0			
NEVADA CITY	53.5	33.8	43.7	.1	64	12+	29	17	653	0	0	12	0	9.62	2.29	1.51	5	.0	0	0	9	7	6			
ORLAND	63.1M	43.5	53.3M	.6	76	12	36	30	358	0	0	0	0	4.18	1.93	.92	21	.0	0	0	8	4	0			
ORVILLE DAM	62.0	45.1	53.6		71	29+	39	5	345	0	0	0	0	6.25		1.31	5	.0	0	0	10	5	3			
PARADISE	59.0	41.6	50.3		72	12+	34	30+	446	0	0	0	0	10.45		1.88	5	.0	0	0	0	0	0			
PLACERVILLE	57.2	36.6	46.9	.1	67	12	30	17	552	0	0	3	0	7.73	1.92	1.87	20	.0	0	0	9	6	4			
PLACERVILLE IFG	57.0	39.3	48.2		69	11	34	30+	515	0	0	0	0	9.40		2.59	25	.0	0	0	8	7	3			
PORTOLA	51.4M	27.4M	39.4M	2.7	65	28	10	17	774	0	0	24	0	2.36	.10	.90	25	.0	1	2+	6	1	0			
QUINCY USFS HELIPORT	55.8M	27.3M	41.6M		68	11	18	11	718	0	0	0	0	4.95		1.03	26	.5	0	0	0	3	1			
RED BLUFF WSO AP	64.6	44.8	54.7	1.5	78	11	38	17	310	0	0	0	0	4.87	2.36	1.84	25	.0	0	0	8	4	1			
REDDING FIRE STN 4	64.2	42.0	53.1		79	28	33	30	361	0	0	0	0	7.88		1.98	21	.0	0	0	10	6	4			
SACRAMENTO FAA AP	60.5	41.9	51.2	-1.8	69	10	36	30	420	0	0	0	0	3.55	1.38	.95	18	.0	0	0	6	3	0			
SACRAMENTO WSO CI	65.9	47.0	56.5	2.1	76	28	41	17	257	0	0	0	0	3.55	1.24	.97	15	.0	0	1	2+	6	1			
SHASTA DAM	60.7	42.8	51.8		77	12	37	16	404	0	0	0	0	10.34		1.66	21	.0	0	0	11	9	5			
SIERRA CITY	54.9M	25.4M	40.2M	2.9	64	11+	18	17	771	0	0	0	0	2.79	.59	.72	21	3.5	0	0	6	2	0			
SIERRAVILLE RANGER STA//	61.9	39.7	50.8	.1	75	12	32	17	435	0	0	1	0	11.82		1.86	19	17.5	6	21	11	8	7			
STONY GORGE RESERVOIR	54.3M	31.5	42.9M		67	11+	24	17	678	0	0	23	0	5.41	-1.49	1.31	25+	69.0	72	27	9	4	2			
STRAWBERRY VALLEY	64.6M	41.6M	53.1M	-1.1	74	28	32	3	361	0	0	1	0	3.76	.97	1.00	15	.0	0	0	7	3	1			
TWIN LAKES	43.3	22.1	32.7	4.5	58	24	8	30	996	0	0	31	0	5.41	-1.49	1.31	25+	69.0	72	27	9	4	2			
VACAVILLE	64.6M	41.6M	53.1M	-1.1	74	28	32	3	361	0	0	1	0	3.76	.97	1.00	15	.0	0	0	7	3	1			
WHISKEYTOWN RES	60.5	41.1	50.8		79	29	35	17+	432	0	0	0	0	10.77		2.05	21	.0	0	0	11	8	5			
WILLIAMS	64.7	42.3	53.5		77	28	39	30+	349	0	0	0	0	2.80		.69	16	.0	0	0	7	3	0			
WILLOWS 6 W	64.4	41.2	52.8	.1	76	11	32	20	371	0	0	1	0	3.95	1.97	.99	21	.0	0	0	8	3	0			
WINTERS	64.6	43.9	54.3		77	29	38	30+	325	0	0	0	0	3.67	1.37	.86	16	.0	0	0	9	3	0			
WOODLAND 1 WNW	63.8	43.7	53.8	-2.2	75	29	37	30	343	0	0	0	0	4.74	2.67	1.14	20	.0	0	0	8	4	2			
DIVISION			46.5	.1										5.79	1.30			6.3								
NORTHEAST INTERIOR BASINS 03																										
BOCA	51.0	21.7	36.4	4.7	62	29	10	17	882	0	0	30	0	2.66		1.30	26	10.0	3	26	7	1	1			
BODIE	42.0	10.4	26.2		51	12+	-2	20	1195	0	0	3	1	1.82		.65	2	23.1	0	0	6	2	0			
BRIDGEPORT	52.0M	18.9M	35.5M		61	24	6	11	910	0	0	31	0	1.49	.31	.47	26	2.2	2	5	4	0	0			
CEDARVILLE	50.0	28.9	39.5	.4	59	29+	20	16	786	0	0	27	0	3.18		.70	26	26.0	0	9	22+	10	2			
DONNER MEMORIAL ST PK	46.6	20.1	33.4		58	10	10	30+	977	0	0	0	0	1.27		.55	25	5.0	0	0	4	1	0			
DOYLE 4 SSE	54.4	27.9	41.2		62	28+	16	17	732	0	0	26	0	1.27		.55	25	5.0	0	0	4	1	0			
ECHO SUMMIT	39.7	20.7	30.2		49	25+	18	31+	1071	0	0	3	1	6.31		2.12	26	73.0	63	27	10	4	2			
FORT BIRDHELL	53.8	27.9	40.9	1.6	64	28+	18	17+	742	0	0	26	0	2.14	.75	.54	26	.0	0	0	6	1	0			
MOND LAKE	49.7	24.8	37.3		58	28+	18	30+	852	0	0	30	0	2.40		.90	19	15.0	4	2	6	2	0			
SAGEHEN CREEK	45.7	19.8	32.8		56	28	5	17	991	0	0	31	0	3.52		1.16	25	7.0	23	1	9	2	1			
SUSANVILLE AIRPORT	53.5	29.3	41.4	1.7	67	29	18	17	726	0	0	22	0	1.31	.05	.30	14	.0	0	0	6	0	0			
TAHOE CITY	45.1	25.1	35.1	3.1	55	25	13	30	919	0	0	30	0	3.80	-1.12	1.44	26	16.0	10	2+	6	3	1			
TAHOE VALLEY FAA AP	43.8	20.0	31.9		52	24	5	30	1016	0	0	1	31	1.23		.27	4	12.0	1	5+	6	0	0			
TERMO	49.5	22.8	36.2		61	28	5	5	886	0	0	30	0	3.50		1.44	26	21.0	6	26+	10	1	1			
TRUCKEE RANGER STATION	46.3	23.0	34.7	2.7	55	29+	13	30+	934	0	0	30	0	1.89	-1.12	.66	25	.0	0	0	4	2	0			
WOODFORDS	50.3	27.6	39.0	.3	59	24	18	30	799	0	0	28	0	1.89	-1.12	.66	25	.0	0	0	4	2	0			
DIVISION			35.7	.0										2.61				16.7								
CENTRAL COAST DRAINAGE 04																										
BEN LOMOND 4	64.2	40.8	52.5		75	9	35	31+	379	0	0	0	0	9.85		3.23	21	.0	0	0	10	9	2			
BERKELEY	60.8	47.2	54.0	.4	68	27	39	5	333	0	0	0	0	4.43	1.48	.84	15	.0	0	0	9	4	0			
GILROY	60.4	45.9	53.2	1.9	73	28	40	16+	361	0	0	0	0	4.71	1.46	.90	21	.0	0	0	10	4	0			
HALF MOON BAY	64.0																									

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

CALIFORNIA  
MARCH 1981

STATION	TEMPERATURE											PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS		
									MAX.	MIN.	DEGREE DAYS					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
											30° OR ABOVE	32° OR ABOVE									
PASO ROBLES	66.6M	41.8M	54.2M	1.5	75 9		330	0	0	0	0	0	4.52	2.53	1.49 19	.0	0		6	3	2
PASO ROBLES FAA AP	62.9	41.1	52.0		72 24+	33 31	395	0	0	0	0	0	4.43		1.55 19	.0	0		6	4	1
PINNACLES NAT MONUMENT	62.8M	38.1M	50.5M	-.8	74 10	32 31	443	0	0	0	0	0	4.61	2.05	1.25 19	.0	0		11	7	3
PISMO BEACH	64.9	44.0M	54.5M		78 10		317	0	0	0	0	0	7.14		2.02 19	.0	0		7	5	1
PRIEST VALLEY	60.2	33.8	47.0	1.1	70 9	26 31+	551	0	0	0	16	0	5.55	2.43	2.00 19	.0	0		8	5	1
REDWOOD CITY	64.0	45.0	54.5	.6	74 9	40 5	318	0	0	0	0	0	4.39	1.96	1.10 4	.0	0		10	3	1
RICHMOND	64.3	46.9	55.6		73 28	43 23+	282	0	0	0	0	0	4.04		.80 15	.0	0		7	5	0
SAINTE MARYS COLLEGE	62.9	40.8	51.6		72 28	34 8+	407	0	0	0	0	0	5.42	1.90	1.02 25	.0	0		10	4	1
SALINAS 3 E	62.8	44.1	53.5		72 9	39 30+	349	0	0	0	0	0			.63 19	.0	0		9	0	0
SALINAS FAA AP	61.1	42.6	51.9	-1.1	71 9	36 30	400	0	0	0	0	0	2.67	.73	.47 19	.0	0		9	0	0
S F RICHMOND SUNSET	61.2	46.3	53.8		69 8	41 30	343	0	0	0	0	0	4.36		1.14 15	.0	0		8	4	1
SAN FRANCISCO WSO AP	60.0	46.4	53.2	-.2	69 28	40 5	358	0	0	0	0	0	3.60	1.06	.70 25	.0	0		9	2	0
SAN FRANCISCO WSO CI	60.0	49.8	54.9	.6	68 28	46 5	304	0	0	0	0	0	3.71	.94	.93 15	.0	0		9	3	1
SAN GREGORIO 2 SE	60.0	42.9	51.5		68 17+	36 16+	413	0	0	0	0	0	5.34		1.41 13	.0	0		11	6	1
SAN JOSE	64.6	46.5	55.6	1.0	72 28+	42 31+	285	0	0	0	0	0	3.13	1.17	.94 13	.0	0		9	1	0
SAN LUIS OBISPO POLY	63.9	45.2	54.6	.3	77 10	38 27	320	0	0	0	0	0	7.48	4.23	1.99 19	.0	0		9	5	3
SANTA CRUZ	63.0	42.5	52.8	.4	74 10	38 20+	374	0	0	0	0	0	8.51	4.35	3.20 21	.0	0		10	5	2
UPR SAN LEANDRO FILTER	62.3	45.3	53.8		71 29+	39 6	337	0	0	0	0	0	5.60		1.11 13	.0	0		11	5	2
WATSONVILLE WATERWORKS	63.1	43.8	53.5	1.5	73 10	38 30	350	0	0	0	0	0	5.55	2.63	1.58 21	.0	0		11	1	0
WOODSIDE FIRE STN 1	64.3	40.4	52.4		78 28	35 17+	383	0	0	0	0	0	6.30		1.26 13	.0	0		11	4	3
DIVISION			53.0	.7									4.75	1.99		.3					
SAN JOAQUIN DRAINAGE 05																					
ANTIOCH PUMPING PL 3	63.0	42.6M	52.8M		73 29+	38 31+	373	0	0	0	0	0	2.22		.52 16	.0	0		7	1	0
ASH MOUNTAIN	62.5	41.4	52.0	-.3	73 12	37 27+	397	0	0	0	0	0	5.30	1.90	2.37 20	.0	0		7	4	1
AUBERRY 1 NW	59.0	40.3	49.7	-.9	68 12	32 13	470	0	0	0	0	0	5.35	1.80	1.37 19	.0	0		10	4	1
BAKERSFIELD WSO AP	65.9	48.0	57.0	.4	74 25	43 18+	243	0	0	0	0	0	2.15	1.32	.64 26	.0	0		6	1	0
BALCH POWER HOUSE	60.3M	39.9M	50.1M		68 12	32 13	454	0	0	0	1	0	5.36		1.23 20	.0	0		9	4	2
BUTTONWILLOW	66.6	44.2	55.4	.4	76 26	39 31+	287	0	0	0	0	0	2.97	2.27	.70 20	.0	0		7	2	0
CALAVERAS BIG TREES	45.9	29.8	37.9	-1.8	57 10	26 30+	836	0	0	0	30	0	10.08	2.09	2.99 26	18.2	10 21	13	6	3	
CAMP PARDEE	61.5	44.2	52.9	.7	68 31+	39 26	368	0	0	0	0	0	5.77	2.60	1.58 20	.0	0		7	4	2
CHERRY VALLEY DAM	49.9	30.1	40.0		62 11	22 20	770	0	0	0	23	0	6.63		1.63 26	16.5	8 21	10	6	3	
COALINGA	66.4	42.0	54.2	.4	78 18	35 6	326	0	0	0	0	0	2.90	1.88	.73 5	.0	0		6	3	0
CORCORAN IRRIG DIST	66.9	44.3	55.6		74 18+	37 14	283	0	0	0	0	0	1.34		.63 19	.0	0		5	1	0
DENAIR 3 NNE	64.5	40.5	52.5	-.6	72 11	33 31	379	0	0	0	0	0	3.67	1.88	.97 19	.0	0		11	2	0
ELECTRA POWER HOUSE	63.4	39.2	51.3	-.9	72 11	32 18	417	0	0	0	1	0	4.92	1.49	1.47 25	.0	0		9	4	1
FIVE POINTS 5 SSW	65.1	45.2	55.2		73 18+	38 31+	297	0	0	0	0	0	2.61		.85 19	.0	0		6	2	0
FRESNO WSO AP	63.9	45.1	54.5	.6	75 11	40 31+	316	0	0	0	0	0	2.59	.97	.75 19	.0	0		9	1	0
FRIANT GOVERNMENT CAMP	64.6	42.8	53.7	.8	74 12	35 30	344	0	0	0	0	0	4.38	2.33	1.04 20	.0	0		10	3	2
GLENNVILLE	57.6	34.3	46.0		67 31	25 13	584	0	0	0	14	0	5.44		1.71 27	.0	0		10	3	2
GRANT GROVE	41.5	26.0	33.8	-.7	55 25	17 27	959	0	0	0	0	0	8.00	1.22	2.81 20	62.0	42 21	7	4	3	
HANFORD 2 S	65.1	43.2	54.2		77 18	38 15+	326	0	0	0	0	0	2.10	.87	.85 19	.0	0		6	1	0
HETCH HETCHY	52.8	32.6	42.7	-.8	64 10	29 28+	684	0	0	0	17	0	6.84	1.95	2.28 20	9.0	6 20	10	6	4	
HUNTINGTON LAKE	44.0M	24.8M	34.4M	2.4	55 24	18 14	941	0	0	0	31	0	8.60		2.10 19	.0	0		13	5	4
KERN RIVER P H 1					80 19+								3.34	1.76	.93 26	.0	0		6	3	0
KERN RIVER P H 3	63.9	37.2	50.6		72 31+	30 14	443	0	0	0	4	0	2.74		.89 20	.0	0		7	1	1
LEMON COVE	66.2	43.0	54.6	.6	74 30+	36 30	314	0	0	0	0	0	3.14	1.29	1.39 20	.0	0		6	1	1
LINDSAY	68.4	41.3	54.9	1.1	76 18	36 30+	309	0	0	0	0	0	2.89	1.22	.70 19	.0	0		8	3	0
LODGEPOLE	41.9	20.5	31.2		54 18	10 14	1039	0	0	0	23	0	9.48		3.75 20	43.0	55 21	9	6	2	
LODI	64.1	42.4	53.3	.6	74 11	34 30+	356	0	0	0	0	0	3.64	1.42	.99 19	.0	0		9	2	0
LDS BANDS	65.5	43.5	54.5	.0	74 12+	37 28	320	0	0	0	0	0	2.88	1.70	.99 5	.0	0		7	1	0
LDS BANDS DET RESV	62.2	45.4	53.8		72 12	36 6	341	0	0	0	0	0	2.34		.66 5	.0	0		8	1	0
MADERA	64.6	42.4	53.5	-.8	74 12	36 16+	349	0	0	0	0	0	3.42	1.92	1.07 19	.0	0		9	2	1
MARICOPA	64.8	42.1	53.5	-.3	73 11	35 18+	350	0	0	0	0	0	3.27	1.53	.79 19	.0	0		9	3	0
MERCED MUNICIPAL AP	65.4	44.1	54.8	1.1	74 28+	39 31	309	0	0	0	0	0	2.85	1.21	.65 4	.0	0		10	1	0
MODESTO	66.5	41.0	53.8	-1.1	75 11	35 30+	341	0	0	0	0	0	2.87	1.48	.88 19	.0	0		8	1	0
NEWMAN	61.6	39.8	50.7		71 12	34 27+	436	0	0	0	0	0	6.25		1.34 5	.0	0		10	5	3
NEW MELONES DAM																					
NORTH FORK RANGER STA		38.7M			69 12								5.47	.59	1.46 20	.0	0		5	2	
ORANGE COVE	66.2M	43.8M	55.0M	1.5	73 12	38 30	299	0	0	0	0	0			.0	.0					
PORTERVILLE	67.9	45.1	56.5	1.4	77 19	38 15	256	0	0	0	0	0	2.28	.66	.99 20	.0	0		6	1	0
POSEY 3 E	47.7M	30.8M	39.3M		55 17	26 28	789	0	0	0	19	0	6.69		22.5	.0	0				
SALT SPRINGS PWR HOUSE	56.4	35.7	46.1		67 9	30 30	581	0	0	0	7	0	7.22	1.05	1.42 26	4.0	0		11	5	4
SAN LUIS DAM	62.4	45.4	53.9		71 25	38 17+	336	0	0	0	0	0	2.17		.57 5	.0	0		7	1	0
SONORA R S					70 9		</														

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

CALIFORNIA MARCH 1981

STATION	TEMPERATURE														PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
									MAX.	MIN.	32° OR BELOW	32° OR BELOW					32° OR BELOW	32° OR BELOW	TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
SOUTH COAST DRAINAGE 06																									
ALPINE	67.1	44.7	55.9		84 24	39 21+	274	1	0	0	0	0	4.55		1.70	1		0			7	3	1		
AYALON PLEASURE PIER	66.2	52.2	59.2	3.7	72 15+	46 8+	176	0	0	0	0	0	3.51	1.76	.90	5		0			6	5	0		
BIG BEAR LAKE	48.5	23.2	35.9		60 24	10 14	898	0	0	0	31	0	3.54		1.42	20	23.5				5	3	1		
BURBANK VALLEY PMP PLT	70.5	46.4	58.5	1.1	81 24+	40 14+	196	1	0	0	0	0	5.62	3.46	1.69	1		0			6	4	3		
CACHUMA LAKE	65.6	42.6	54.1		78 10	35 14+	327	0	0	0	0	0	7.66		2.87	5		0			5	3	2		
CAMP																									
CANDGA PARK PIERCE COL	63.6	37.9	50.8		80 24	31 15	430	0	0	0	3	0	4.22	1.77	1.58	1		0			8	3	1		
CHULA VISTA	63.4	50.4	56.9	1.7	82 10	34 14	284	0	0	0	0	0	5.03		1.39	5+		0			5	3	2		
CORONA	69.9	42.6	56.3	.3	80 9	36 28+	266	0	0	0	0	0	1.85	.14	1.29	1		0			4	1	0		
CULVER CITY					77 10+	41 14		0	0	0	0	0			1.09	2		0							
CUYAMACA																									
DRY CANYON RESERVOIR	51.9	33.7	42.8	-.2	68 25	28 28	681	0	0	0	12	0	4.61	-1.52	1.35	2	3.7	2	27		7	4	2		
EL CAJON	63.8	42.4	55.5		78 25	31 15	465	0	0	0	2	0	2.99		.98			0			5	3	1		
EL CAPITAN DAM	70.1M	47.5M	58.8M		79 25	40 3	187	0	0	0	0	0			1.02	5		0			7	4	0		
ELSINDRE	68.1	46.0	57.1	-.1	79 25+	42 28+	244	0	0	0	0	0	4.29		1.62	2		0			6	3	0		
	69.7M	44.6M	57.2M	2.3	82 24	36 27	244	0	0	0	0	0	2.31		1.22	1		0			5	1	1		
ESCONDIDO 2																									
FONTANA KAISER	68.7	45.6	57.2		77 24	38 3	235	0	0	0	0	0	4.53		1.70	1		0			7	4	1		
HENSHAW DAM	65.4	44.8	55.1		77 31	38 8+	297	0	0	0	0	0	3.16		1.13	2		0			5	3	1		
IDYLLWILD FIRE DEPT	60.1	36.4	48.3		74 25	29 21	510	0	0	0	6	0	7.95	4.06	2.05	2		0			8	5	4		
JULIAN WYNOLA	53.7	29.9	41.8		68 24	23 27	710	0	0	0	28	0	3.37		1.22	20		0			3	1	2		
	57.8	35.4	46.6		74 24	29 28+	562	0	0	0	6	0	5.75		1.92	1		0			10	4	2		
LAGUNA BEACH																									
LA MESA	67.6	44.9	56.3	1.2	77 1	40 28+	265	0	0	0	0	0	4.33	2.57	1.28	1		0			5	4	2		
LOMPOC	65.6	48.1	56.9	2.5	84 10	42 3	191	3	0	0	0	0	4.76	2.68	1.50	1		0			7	4	3		
LONG BEACH WSO AP	66.9	44.1	54.9		75 9	38 14	306	0	0	0	0	0	5.98		1.91	5		0			10	4	3		
LOS ANGELES WSO AP	66.9	50.3	58.6	1.4	78 9	44 3	189	0	0	0	0	0	3.41		1.91	1		0			5	4	1		
	64.3	51.8	58.1	1.6	74 10	46 3	207	0	0	0	0	0	3.24		1.53	.93	2		0		5	3	0		
LOS ANGELES CIVIC CTR																									
MONTBELLO	69.8	54.2	62.0	2.8	81 10	47 2	97	13	0	0	0	0	4.10	1.91	1.25	1		0			5	4	2		
MT WILSON 2	71.2M	46.7M	59.0M		80 10+	40 2	168	1	0	0	0	0	3.64		1.27	1		0			6	4	4		
NEW CUYAMA FIRE STA	51.5	34.9	43.2	-.4	66 24	27 27+	668	0	0	0	14	0	10.42	5.73	3.55	1		0			16	8	5		
NEWPORT BEACH HARBOR	62.9	40.5	51.7		77 16	29 13	406	0	0	0	0	0	3.13		1.03	1	3.7				10	5	2		
	64.7	51.9	58.3	2.1	70 29	45 27+	201	2	0	0	0	0	2.47	.86	1.03	1		0			5	2	1		
OAK GROVE RANGER STN																									
OCEANSIDE MARINA	65.2M	35.7M	50.5M		76 25	29 27	449	0	0	0	6	0	4.41		2.20	1		0			6	3	1		
OJAI	66.9	48.5	57.7		81 23	43 27	218	0	0	0	0	0	2.48		.69	20		0			4	4	0		
OXNARD	66.4M	39.9M	53.2M	-1.9	78 24+	33 14	361	0	0	0	0	0	6.82	3.84	2.00	2+		0			5	4	3		
PALOMAR MT OBSERVATORY	65.4	46.5	56.0		79 10	42 30+	272	0	0	0	0	0	4.95		1.60	1		0			5	4	3		
	54.6M	32.9M	43.8M	-1.2	65 26+	26 28+	653	0	0	0	18	0			2.70	4		0							
PASADENA																									
POMONA CAL POLY	68.3	47.7	58.0		78 24+	42 3	207	0	0	0	0	0	5.26	2.58	1.96	1		0			6	4	3		
RAMONA FIRE DEPT	68.8	44.9	56.6	1.5	79 10+	38 14	250	0	0	0	0	0						0							
REDLANDS	66.2M	42.3	54.3M		77 24	35 3	327	0	0	0	0	0			1.63	1		0							
RIVERSIDE FIRE STA 3	70.1	41.7	55.9	.4	83 31	35 28+	275	0	0	0	0	0			1.15	1		0							
	70.0M	45.5M	57.8M	1.7	80 31+	38 3	218	0	0	0	0	0	1.86	.33	.94	1		0			3	1	0		
RIVERSIDE CIT EXP STN																									
SAN BERNARDINO CO HOSP	66.2	46.9	56.6		78 31	40 14	251	1	0	0	0	0	2.20		1.22	1		0			5	1	1		
SANBERG HSDM	68.9M	46.9M	57.9M	1.8	81 31+	40 15+	218	1	0	0	0	0	2.69	.24	.95	1		0			8	1	0		
SAN DIEGO WSO AP	66.6	55.5	61.1	3.0	72 10	49 3	116	0	0	0	0	0	3.74	2.19	1.64	1		0			4	3	2		
SAN GABRIEL FIRE DEPT	69.3M	47.6	58.5M	1.0	80 24+	41 14	200	0	0	0	0	0	4.88	2.19	1.82	1		0			5	4	2		
SAN JACINTO RANGER STN																									
SAN PASQUAL ANIMAL PK	68.8	44.6	56.7		78 15	38 3+	248	0	0	0	0	0	2.72		1.09	2		0			6	2	1		
SANTA ANA FIRE STATION	68.8	49.7	59.1	1.7	79 9	41 15+	175	0	0	0	0	0	3.83	1.41	1.22	1		0			5	4	1		
SANTA BARBARA	64.8	48.1	56.5	-.6	77 10	40 27	257	0	0	0	0	0	5.95	3.34	2.20	5		0			7	4	2		
SANTA BARBARA FAA AP	63.3	45.8	54.6	-.1	73 10	38 14	317	0	0	0	0	0	6.83	4.44	1.90	1		0			7	5	3		
SANTA MARIA WSO AP																									
SANTA MONICA PIER	63.4	42.8	53.1	.3	76 9	36 27	360	0	0	0	0	0	5.59	3.61	1.47	1		0			8	4	3		
SUN CITY	68.5	46.2M	57.4M		81 9	39 14	228	0	0	0	0	0	6.22		1.68	4		0			6	4	3		
TORRANCE	67.3	50.3	58.8	2.4	77 10	44 14	187	0	0	0	0	0	3.61	1.88	1.36	5		0			4	4	1		
TUJUNGA																									
TUSTIN IRVINE RANCH	65.7	43.8	54.8		79 24	38 27+	308	0	0	0	0	0	5.58		1.55	5		0			6	4	3		
WITCHELL DAM	68.5	45.6M	57.1M	1.0	78 15+	38 27	230	0	0	0	0	0	3.08	1.26				0							
U.C.L.A.	64.1	50.3	57.2	-.8	74 10+	46 14+	238	3	0	0	0	0	6.49	1.98	2.34	5		0			10	4	2		
VISTA 2 NNE	66.9	47.0	57.0		75 10	42 27+	243	0	0	0	0	0	2.85		1.65	2		0			5	4	1		
															.68	1		0			5	3	0		
YORBA LINDA																									
	70.0M	46.0M	58.0M	1.1	80 9	39 27	209	0	0	0	0	0			1.92	1		0							
DIVISION																									
			54.9	1.0									4.40	-.85				.6							
SOUTHEAST DESERT BASINS 07																									
BAKER	75.1M	45.6M	60.4M		92 25	38 2	153	17	1	0	0	0	.47		.32	2		0			2	0	0		
BARSTON FIRE STN	67.5	41.8	54.7		78 25+	36 29+	314	0	0	0	0	0	.62		.22	5		0			3	0			

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

CALIFORNIA  
MARCH 1981

STATION	TEMPERATURE													PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS				
									MAX.		MIN.					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE .50 OR MORE	1.00 OR MORE			
									37° OR ABOVE	37° OR BELOW	37° OR ABOVE	37° OR BELOW											
DEEP SPRINGS COLLEGE	54.2	29.7	42.0		70 29	13 14	706	0	0	0	25	0	1.45		.45	19	5.2	2	13	5	0		
EAGLE MOUNTAIN	72.5	53.0	62.8	.2	87 26	45 2	104	42	0	0	0	0	1.10	.85	.53	2	.0	0	2	3	0		
EL CENTRO 2 SSW	78.8	46.5	62.7	.3	91 25	40 29	105	40	2	0	0	0	.57	.38	.33	1	.0	0	2	3	0		
EL MIRAGE FIELD FAIRMONT	63.5	35.2	49.4		76 26	27 31+	478	0	0	0	8	0	1.19		.72	6	.0	0	3	1	0		
															1.15	1	.0	0	0	0	1		
GOLD ROCK RANCH	77.6	51.7	64.7		89 25+	42 15+	72	70	0	0	0	0	.98		.57	5	.0	0	2	1	0		
HAIWEE	59.3	36.5	47.9		73 25	30 14+	522	0	0	0	4	0	2.79	2.17	1.56	2	.0	0	2	1	0		
HAYFIELD PUMPING PLANT	71.8	46.3	59.1	.2	87 25	39 15+	195	17	0	0	0	0	1.58		1.32	2	.0	0	2	1	0		
IMPERIAL	77.3	51.3	64.3	1.0	91 25	44 6+	67	54	2	0	0	0	.60	.40	.35	1	.0	0	2	3	0		
INDEPENDENCE	63.1	38.1	50.6		79 26	30 14	440	0	0	0	1	0	1.16		.88	1	.0	0	3	1	0		
INDIO U S DATE GARDEN	77.2	52.5	64.9	1.2	91 25	42 7+	81	81	1	0	0	0	2.04	1.75	1.29	5	.0	0	3	1	0		
INYO KERN	68.5	38.6	53.6		78 25+	31 2	347	0	0	0	2	0	1.12		.54	6	.0	0	2	2	1		
IRON MOUNTAIN	75.4	52.5	64.0	1.5	92 26	43 6	94	70	1	0	0	0	.99	.73	.68	5	.0	0	2	1	0		
LAKE ARROWHEAD	50.5	30.4	40.5	1.9	65 24	25 27+	752	0	0	0	27	0	5.78	.42	2.24	15.3	15.3	8	6+	7	1		
LANCASTER FSS/FAA	62.5	39.7	51.1		75 24	30 31	423	0	0	0	2	0	3.02		2.04	5	.0	0	2	2	1		
MECCA FIRE STATION	79.9	50.0	65.0	2.0	93 24	40 2	67	76	2	0	0	0	.63	.40	.36	4	.0	0	0	3	0		
MITCHELL CAVERNS	59.1	39.9	49.5		71 24	31 3	469	0	0	0	4	0	3.44		1.20	5	.0	0	6	6	3		
MOJAVE	64.0	40.8	52.4		75 24	33 26	382	0	0	0	0	0	2.87	1.98	1.48	5	.0	0	4	3	1		
MOUNTAIN PASS	56.0	35.3	45.7		72 26	28 27	591	0	0	0	5	0	1.24		.46	2	.0	0	4	0	0		
NEEDLES FAA AIRPORT	75.5	51.5	63.5	1.9	88 25	42 14	86	49	0	0	0	0	.92	.54	.40	5	.0	0	2	2	0		
PALMDALE	65.2	36.6	50.9	1.2	75 24	29 14	429	0	0	0	4	0	2.11	.93	.90	1	.0	0	6	1	0		
PALM SPRINGS	77.7	50.1	63.9	1.7	92 24	41 8	83	59	2	0	0	0	1.24	.61	.80	1	.0	0	2	2	1		
PARKER RESERVOIR	75.2	53.0	64.1	1.0	90 25	43 5	88	69	1	0	0	0	1.15	.58	.61	1	.0	0	4	1	0		
RANDSBURG	61.6	40.9	51.3	.0	73 24	33 14	420	0	0	0	0	0	3.32	2.68	1.61	3	.0	0	4	3	1		
THERMAL FAA AP	77.8	49.9	63.9		94 25	41 2	91	64	2	0	0	0	.89		.63	1	.0	0	2	2	0		
TRONA	71.7	46.1	58.9	2.2	78 24		180	1	0	0	0	0	1.19	.75	.54	5	.0	0	3	1	0		
TWENTYNINE PALMS	72.5	43.6	58.1	.8	87 25	35 2	213	8	0	0	0	0	1.12	.87	.67	5	.0	0	3	1	0		
VALYERMO FIRE STN 79	62.4	32.6	47.5		73 25+	20 20	530	0	0	0	13	0	2.40		1.22	1	.0	0	4	1	1		
VICTORVILLE PUMP PLANT	63.9	38.3	51.1	.5	78 25	30 14	424	0	0	0	1	0	1.48	.79	.69	2	.0	0	3	3	2		
WILDROSE RANGER STA	58.5	34.3	46.4		70 25+	28 21+	571	0	0	0	11	0	2.26		.80	6	.0	0	4	2	0		
DIVISION			56.4	2.3									1.60	.67			.6						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

CALIFORNIA  
MARCH 1981

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		
NORTH COAST DRAINAGE 01																																		
ANGWIN PAC UNION COL	4.51	.04	.02	.43	.06			T					.03	T	.50	.42		.52	.28	1.04	.12	T				.77	.22				.06	T		
BIG BAR RANGER STATION	3.98			.53	.04				.05	.01			.39		.67	.67			.05	.26	.31				.31	.70	.65				.45	.56		
BRIDGEVILLE 4 NW	6.10	.05		1.35	.04			.18				.12	.18	T	.82	.82			.14	.51	.31				.82	1.83	.47				.77	1.17		
BURNT RANCH 1 S	5.52	.08		.60	.04			.06	.07				.15		.61	.61			.10	.50	.34				.26	T				.18	.20			
CALISTOGA	3.72	.10		.34									.93						.52	.87				.04		.75	.15				.02			
CALLAHAN	1.78			.77	.01							.13	.34	T					.06	.06	T				T		.45	.08				.45	.08	
CECILVILLE 5 SE	2.62			.70	.02							.08	.24	.25	.06	T			.08	.26	.01				T	.75	.60				.20	.04		
CLOVERDALE 3 SSE	4.26	.22		.69	.02			.06					.03	*	.15				.03	.02	.72				T	.50	.17							
COVCO 1 DAM	1.65			.72		T		.04					.60	.03				.07	.20	.51				.06	.05	T				.91	.51			
COVELO	4.13	T											.03		.03	.28			.07	.20	.51				.06	.05	T				.91	.51		
CRESCENT CITY 1 N	6.96		.05	.71						.06			*	*	1.74	.04			.04	.35	*	*	.22			1.22	1.12	.03	*	*	.65	.73		
CRESCENT CITY 7 ENE	8.67			.97	.02			.38	.04	.07			.36	*	.44	1.39			.12	.37	.17				.43	.22	1.08	1.62	.45		.33	.33		
CUMMINGS	7.52	.02	T	1.15				.16		.15			.86	.09	.23	.50	.75		.50	.75	.78				.85	.02	1.72	.78			.36	.03		
EUREKA WSO C1	4.64		.73	.13				.17	.01	.02		.03	.13	T	.42	.01	.07		.43	.06	.23				.05	.90	.47				.28	.44		
FOREST GLEN																																		
FORT BRAGG	3.98			1.05	.87			.16							.18	.03			.36	.22	.50				.06	.79	.50				.08	.25		
FORT DICK	1.02			.26	.01			.40		.08			.29	.41	1.18	.07	.03		.36	.22	.50				.06	1.34	1.37	.19		.61	.25	.08		
FORT JONES RANGER STA	4.18			.57				.22					.15	.07					.01						.02	.25	.11			.02	.12			
FORT ROSS	5.52			.57				.22					.41	.45	.45	.85	.85		.27	.45	.85				.15	.50	.40			.06	.06			
GARBERVILLE	5.52			.97				.67	.17				.67	.17	.16	.18	.66	.62	.15						.15	1.04	.61			.10	.01			
GASQUET RANGER STATION				1.10	.04			.36	.02				.10	.48	1.10				.06		.20	.65	.02			1.14	2.02	.25		.58	.41	.10		
GRATON	5.26	.36	.01	.41				.22	.02	T			.37	.22	.82	.48	.30	1.20	.65	.02						.76	.25							
GREENVIEW	7.08	.05		.91				.16		.03			.20	.21	.78				.20	.33	.37				.70	.74	1.30	.39		.34	.37			
GRIZZLY CREEK ST PK																																		
GUERNEVILLE FIRE DEPT																																		
HAPPY CAMP RANGER STA	4.50			.40		*	*	.50					.40	*	.60				T	.40	.30					.85	.65	.10		*	.30	T		
HAYFORK RANGER STATION	4.01			.39				.08					.41	*	.92				.11	.30	.74					.45	.47			*	.08			
HEALDSBURG	4.52	.01		.60				T					.05	T	1.06				.15	.47	1.22				T	1.55	2.23							
HEALDSBURG 2	5.02	.32	T	.64				T					.29	.75					.36	.19	1.60				.23	.51	.13							
HILTS	.98		.26	.12															.03	.02						.32	.11			.06				
HOOPA	6.14			.83	.02			.04	.03				.08	T	.21	.90			.09	.49	.09				.39	.80	1.50	.27		.18	.22			
KENTFIELD	9.17	.22		.70				.04	.03				.69	1.17	.38	1.24			.15	.60	2.85					1.32	.23							
KLAMATH	9.98		.10	1.14	.01			.57		.02			.20	.87	.38	.07			.22	.22	.36	.21				1.55	2.23			.83	.02	.85		
LAVA BEDS NAT MONUMENT	1.46			.44															.03							.09	.70			*	.70			
MAD RIVER RANGER STA								.23					.02	*	1.28				.22	.15						.09	.70			*	.70			
MOUNT HEBRON R S	.74			.10	.02								.02		.08	.09			.14	.86	1.40				T	.27	.04			.12	.10			
MUIR WOODS	8.31	.22		.36				.13		.01			1.24	1.14	.03	1.15			.14	.86	1.40				T	1.20	.31			.12	.10			
NAPA STATE HOSPITAL	4.03	.04	T	.27	.02								.45	.88	.04	.55			.08	.23	.40					.91	.16			T				
OAK KNOLL R S 2	1.58			.22									.19	.14	.20				.34	.19	.12					.28	.20							
OAKVILLE 1 NW	3.54	.17		.20				T					.18	.71					.39	.23	.20	.47			.06	.86	.12			.01	.15			
OCCIDENTAL	6.28	.35	.05	.50									.52	.30	.69				.67	.82					.14	.34	1.81			.09	.09			
ORIX PRAIRIE CREEK PK	9.71	.09		1.17	.02			.31		.08			.26	.84	.80	.11	.25		.16	.05	.18	.35				1.29	2.43			.70	.20	.42		
ORLEANS	6.63		.08	.81				.12					.74	.76	.24	.03			.02	.33	.20	.31			1.02	.91	1.14			.49	.10			
PETALUMA FIRE STA 2	4.24	.05		.07				.01	.09				.07	.02	.83				.56	.26	.74					.76	.11			.08	.06			
POINT ARENA	4.37	.17		.82				.10	.09				.44	.13	.17				.24	.09	.80					.74	.22	.01		.08				
POTTER VALLEY P H	5.00	.03		.84				.12					.70	.14	.26	.03	.32	.63	.38							.97	.55			.03	.15			
RICHARDSON GROVE ST PK	7.04	.02		.94				.18	T				.46	.56	.94	.41			.28	.42	.81	.03				1.10	1.10			.05	.09			
SANTA ROSA	3.58	.29	T	.24									.10	.80					.40	.27	1.02	.01				.92	.24				.07			
SANTO ROSA													.22	.04	.83				.23	.18	.66	.05				.70	.14							
SAWYERS BAR RANGER STN																																		
SCOTIA	5.50	.01		.82	T			.10		T			.66	.06	.28	.23			T	.03	.19	.39			.22	T				.48	1.09			
SHELTER COVE AVIATION																															.22	.26		
SONOMA	5.82	.12	.01	T	.43	.11		.09					.63	.12	.05	.61	.48	.35	.55	.01						1.16	.19			T				
STANDISH-HICKEY ST PK	8.56			1.34				.09					.18	.59	.02	.42	.79	.92	.45							1.33	1.62	.09		.22	.08	.42		
TRINITY RIVER HATCH	3.63	.07		.93	.12			.06	.03				.30	.08	.35	.04	.40	.19	.12							.63	.31							
TULELAKE	1.70			.15	T								.03	.10					.13	.01	.10					.68	.34	T		.20	T			
UKIAH	3.75	.01		.76				.09					.63	.04	.28	.07	.16	.52	.13							.60	.44			.02				
UKIAH 4 WSW	4.95	.05	.01	.79				.02	.16				.52	.19	.12	.34	.19	.12								.68	.99	.03		.10				
UPPER MATTOLE	8.11			.95				.17																										

# DAILY PRECIPITATION

CALIFORNIA  
MARCH 1961

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
HAT CREEK P H 1	4.37				.22	.53							.20	.21	.03	.59	.59		.22	.15	.17		.04			.51	.69	.15		.03	.04	
IOWA HILL	9.22	.10	.03		.04	1.15							.15	.09		.93			1.08	1.80	.51		.25			1.15	1.31	.33			.30	
JESS VALLEY	2.00				.24	.29									.03	.55	.02		.06	.02	.03					.31	.22	.22			.15	.19
KELSEY W W LAKEPORT	7.14		.02		.62	1.06							.05	.07	.02	.91			1.54	1.35	.28		.12			.40	1.45	.15			.04	
LAKE SOLANO	3.69	.22	T		.25	.21									.04	1.00			.51	.05	.92		.02			.37	.10				.31	.21
LAKE SPAULDING	9.45				.30	.13								.22		.83			1.57	1.05	1.28		.36			2.50	.69			.31	.21	
HANZANITA LAKE	5.15				.20	.65								.47	.16	T	.75		.30	.15	.21		.02	.03		1.20	.75			.17	T	
HARKLEY COVE	2.05	.23	.03		.15	.17								.02		.04	.67		.35	.09	.60					.46	.22				.15	
MARYSVILLE	5.37	.06			.38	.71									.01	.90			1.49	.51	.36		T			1.02	.05				T	
MC CLOUD														.23		.18	.65		.60	.42	.60		1.57			.85	.35			.05	T	
MIDDLETOWN	6.54				.65	.29										1.23			.44	.38	.95		.20			.59	.39				.05	
MINERAL	4.74				.39	.51								.12	.01	T	1.02		.50	.27	.85		.02	T		1.26	.48			.01		
MOUNT SHASTA WSO CI //R	4.00			.15	.71	.01								.36		.83			1.18	.15	.54		.08		.12	.26	.48			.03		
NEVADA CITY	9.62	.09			.08	1.51								.04		1.27			1.50	1.40	1.00		.26			.82	1.48	.14		.03		
NICOLAUS 2	4.24	.09	T		.08	.72										1.12			.95	.26	.20			.01		.71	.10					
ONO	4.18	.24														.62			.39	.51	.92		.04			.41	T					
ORLAND	6.25	.12			.27	1.31										1.14			.89	.48	.57		.18			1.11	.38					
ORDVILLE DAM	8.23	.08	.04		T	.08								.07	.20	.15			.59	1.99	.61		.38	.02		.23	2.73	.28			.08	
PACIFIC HOUSE																																
PARADISE	10.45	.06			.43	1.88										1.48			1.60	.18	1.45		.64			1.85	.85	.03				
PASKENTA RANGER STA	5.20		.37		.73	T										.63			1.12	1.22	.42		1.24			.32	.43	.02				
PAYNES CREEK	3.40				.40	.85									.20	.05			.92	.27	.42		.07			.92	.43	.02				
PIT RIVER P H 1	12.39				.38	.11									.18	.22	.21		.20	.15	.12		.02			2.85	.48			.02	.17	
PIT RIVER P H 5	12.39				1.23	T		.08							.32	.76	.60		1.23	1.16	1.23		.91	T		2.99	.28			.10	T	
PLACERVILLE	7.73	.09				1.07									.02	.02	.65		1.04	1.87	.28		.17			.66	1.69	.07			.10	
PLACERVILLE IFG	9.40		T		.50	.45									.08	.78	.08		2.00	1.71	.64		.04			2.59	.52	.04		.07		
POROLA	2.36				.05	.39									.17	.22	.05		.38	.14	.12		.01			.30	.46					
QUINCY USFS HELIPORT	4.95				.78	T									.13	.22	.34		.32	.92			.38			.90	1.03	.02		.25	.05	
RED BLUFF WSO AP	4.95	T	T			T												.63	.12	.12	.46		.04	.38	.11	1.84	.10	.02		T	.05	
REDDING FIRE STN 4	7.88				1.16			.02							.60	1.07			.45	.50	.27	1.98		.13		1.38	.02			.30		
REPRESA	4.79				.80											1.10			1.53	.20						.90						
ROUND MT P G AND E	11.02				1.47			.05							.40	.15	.93		.43	1.18	.53	1.54		.75	.02	2.43	.32					
SACRAMENTO FAA AP	3.55				.66										.01	.94			.38	1.06						.39						
SACRAMENTO WSO CI	3.55	.01			.63	.01										.97			.33	.14	.10					.43						
SHASTA DAM	10.34				1.60	.36		.04	.01						.66	.13	1.30		.60	.58	1.66		1.35	.02	.02	1.07	.89	.05			.05	
SHINLEETOWN 2 E	9.26				.65	.73									.17	.12			1.03	.56	.79		.15	.30		1.89	.96	.11		.19		
SIERRA CITY																			.11	.29						.55	.99	.20		.21		
SIERRAVILLE RANGER STA //		.33			.35	.05									.09	.32	.09		.20	.19	.77		.01			.20	.03					
STONYFORD RANGER STA	2.64														.01											.20	.03					
STONY GORGE RESERVOIR	2.79	.40			.45	.08			.03							.01	.67		.18	.07	.72		.02			.14	.02					
STRAWBERRY VALLEY	11.02	.03			.54	1.32									.15	.01	.67		1.84	.16	.73		.40			1.45	1.17			.48		
TWIN LAKES	5.41	.05	.06	.02	.02	.02									.40	.15	.28		.34	.75	.26		T			1.31	.77			.57		
UPPER LAKE 7 W	5.22				.81	T		.08	.02							1.07		.04	.35	.34	.75	.26				.95	.20	.11		.22	T	
VACAVILLE	3.76	.04	T		.45											1.00	.08		.42	.19	.13	.84				.55	.06					
VINTON	1.51				.01	T									.27				.25	.06						.67	.13	.03		T	.09	
VOLTA POWER HOUSE	5.90				.89	.08									.22	.05	.58	.30	.35	.59	.36	.45		.06		1.29	.56	.01		.15		
WILKINSON RES	10.77				1.39	.13		.06	.03						.39	T	.34	1.10	.71	.64	2.05		2.00	.01	.01	1.29	.60	.02				
WILLIAMS	2.80				.64	.13													.30	.12	.29					.63	T					
WILLOWS 6 W	3.95	.34			.63	.03										.44	.05	.12	.80	.15	.99					.42	.01					
WINTERS	3.67	.30	T		.42	.14										.14	.86	T	.52	.16	.69		.01			.40	.03	T		T		
WOODLAND 1 WNN	4.74	.12			.31	.30										.06	1.00		.60	1.14	.31		.01			.86	.03					
NORTHEAST INTERIOR BASINS																																
BOCA	2.66															.25	.05			.48	.15					1.30	.13			.15		
BODIE	1.82															.13				.50	.05	.22				.14	.22	.10				
BRIDGEPORT	1.43		.65			.02														.22				.03		.09	.47	.02		T	.27	
CEDARVILLE	0 3.18		T			.34										.25	.15	.14	.27	.66	.23	.0				1.70	.70	.09		.42		
DOYLE	1.27					.05														.09							.05	T			.03	
DOYLE 4 SSE	1.27				.06	T										.25			.10							.55	.23			.08	.38	
ECHO SUMMIT	6.31	.01	.05													.12	.12		.52	1.08	.48		.40	T		.44	2.12	.57		.06	.06	
ELLEY LAKE	5.30	.52	.14	.02		.14	.02	.06	T						.28	.24	.28	.18	.04	.20		.06	.34		.04	.43	.54	.08		.20	.03	
FORT BIDWELL	2.14				.23	.05													.26	.13												
GEM LAKE	3.06	1.12				.23		.06								.12	.02		.08	.92	.18	.14		.06	.04	.08	.10			.04	.02	
HONO LAKE	2.40	.14	.52													.06	.05		.90	.14	.07					.06	.15			.23		
SAGENEN CREEK	3.52				.07	.23		.06											.26	T	.12	.02				1.16	.58	.05		.11	.23	
SUSANVILLE AIRPORT	1.31				T	.15										.30			.14	.30		.01				.31	.27			.05	.28	
TAHOE CITY	3.80				T	T										.09	.07		.54	.51												









# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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		
NORTH COAST DRAINAGE 01																																	
ANGWIN PAC UNION COL	MAX 54	56	59	49	46	59	59	58	61	65	65	66	48	52	55	46	56	61	49	52	45	55	57	60	60	52	57	54	68	71	55	57	
	MIN 42	40	39	42	37	41	38	42	45	43	47	43	40	37	40	34	40	43	41	34	41	44	38	43	47	37	37	47	48	42	33	38	
BIG BAR RANGER STATION	MAX 61	60	48	61	58	69	69	74	74	66	75	63	54	58	54	60	60	54	56	50	53	62	64	62	55	52	62	69	63	60	55		
	MIN 37	40	30	31	33	41	40	32	42	33	35	41	42	32	32	37	38	36	39	42	41	36	44	35	34	32	33	30	35	36	36		
CALISTOGA	MAX 65	65	58	54	67	68	64	69	70	65	67	65	60	57	61	66	71	58	60	64	64	70	60	60	61	66	70	76	71	68	67		
	MIN 48	40	40	45	45	35	41	40	38	38	39	32	45	42	38	41	43	46	46	35	51	41	35	61	66	70	48	45	42	32	41		
CALLAHAN	MAX 57	59	57	52	45	51	55	60	65	61	65	60	49	52	49	48	54	53	53	49	56	58	58	60	53	49	55	67	65	51	55		
	MIN 28	27	27	32	23	23	35	28	27	35	28	27	37	31	38	28	31	38	31	32	27	39	31	32	28	42	32	30	28	24	29		
CECILVILLE 5 SE	MAX 61	63	60	61	56	45	60	63	67	61	69	61	57	61	47	57	60	50	55	49	58	56	52	61	50	49	61	69	59	51	52		
	MIN 28	28	30	29	26	45	36	28	28	37	38	36	37	32	39	29	22	33	33	29	38	33	31	29	40	40	32	28	36	29	30		
CLOVERDALE 3 SSE	MAX 67	66	65	60	55	65	66	72	75	72	70	74	58	60	52	66	64	70	52	58	56	67	71	70	60	60	68	69	77	60	66		
	MIN 44	38	39	44	38	38	42	43	43	47	47	44	46	40	44	58	60	43	46	41	45	47	40	41	60	45	41	42	40	40	42		
COVELO	MAX 63	68	63	56	61	64	58	68	69	64	74	68	55	62	59	59	63	60	56	49	57	60	65	63	58	52	64	74	65	60	58		
	MIN 30	28	34	38	27	25	42	35	29	42	34	39	41	32	42	34	26	40	37	33	41	40	34	35	43	45	35	36	42	29	32		
CRESCENT CITY 1 N	MAX 63	61	57	54	62	61	58	63	60	59	68	67	56	58	56	57	64	57	59	58	61	60	62	61	57	56	57	60	58	57	55		
	MIN 42	39	45	42	37	40	48	42	44	47	46	50	46	45	50	44	41	45	46	45	53	46	46	45	42	44	47	42	48	43	41		
EUREKA WSD CI	MAX 57	57	56	52	54	56	56	59	58	55	59	58	53	57	56	55	59	59	55	56	62	60	63	65	58	53	55	55	54	54	56		
	MIN 41	43	47	45	41	37	44	41	41	49	44	45	44	40	47	40	39	47	45	43	49	46	43	44	47	43	44	45	48	41	38	43	
FOREST GLEN	MAX MIN																																
FORT BRAGG	MAX 57	60	59	56	54	57	56	57	57	58	58	60	57	57	58	55	57	61	58	59	54	61	59	61	62	60	57	58	59	57	57		
	MIN 42	40	40	40	43	37	39	40	41	42	43	45	46	40	42	39	40	43	43	41	44	45	40	45	50	42	43	48	48	36	39		
FORT JONES RANGER STA	MAX 60	64	57	40	52	62	69	60	66	62	60	66	62	58	58	30	52	58	52	57	50	59	59	60	55	50	59	69	51	57	58		
	MIN 26	25	28	23	21	24	27	27	25	32	27	25	32	30	20	27	27	27	33	29	33	33	29	33	59	27	34	34	31	27	32		
FORT ROSS	MAX 61	60	59	57	61	58	57	60	62	63	62	61	59	58	55	61	59	57	56	57	59	60	62	61	62	58	64	62	60	59	59		
	MIN 43	44	42	45	38	40	45	45	43	42	46	47	44	40	46	39	43	44	43	42	51	47	47	44	47	47	44	42	43	45	40	41	
GRATON	MAX 52	60	65	55	58	69	65	56	69	73	72	72	60	64	62	52	65	69	53	60	51	64	66	68	61	66	64	74	75	67	66		
	MIN 42	40	40	40	33	33	34	42	36	36	38	43	44	36	37	35	35	35	41	38	38	49	36	38	39	40	41	38	40	34	35		
GRIZZLY CREEK ST PK	MAX 51	55	49	55	50	54	56	51	60	63	57	65	59	52	56	52	54	49	55	55	61	56	54	48	56	54	48	55	58	49	54		
	MIN 39	39	42	42	32	32	35	40	37	38	46	45	45	40	41	43	32	34	43	39	42	41	39	39	45	41	40	40	44	37	37		
HAPPY CAMP RANGER STA	MAX 70	70	62	50	59	70	74	66	76	72	74	76	64	60	66	64	60	66	66	66	66	66	66	66	66	66	66	66	66	66	66		
	MIN 34	34	40	30	28	28	24	24	34	34	34	40	34	40	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
HEALDSBURG	MAX 67	68	62	57	70	69	56	73	77	74	78	66	64	67	57	70	73	62	63	53	66	67	73	64	64	64	74	81	69	70	65		
	MIN 45	43	42	46	40	38	46	45	42	51	49	47	48	41	46	39	40	45	48	42	47	49	40	43	52	42	46	49	47	43	41		
HILTS	MAX 63	62	59	54	48	53	50	60	66	62	65	62	56	56	54	52	56	50	55	52	56	60	59	60	62	58	64	60	65	48	56		
	MIN 27	29	26	35	32	21	30	28	27	36	30	28	35	25	34	33	20	28	38	30	35	33	34	29	44	35	39	29	40	32	36		
HOOPA	MAX 63	63	67	59	52	62	63	55	68	71	63	73	64	55	67	50	61	60	56	64	51	61	63	66	66	57	50	67	72	52	59		
	MIN 38	40	43	40	32	32	40	42	40	42	42	39	42	42	47	42	35	39	45	42	44	43	41	40	44	41	40	39	42	40	40		
KENTFIELD	MAX 55	58	59	55	64	63	62	65	69	68	69	66	58	61	56	62	64	62	56	54	64	60	64	64	64	62	62	75	73	63	65		
	MIN 47	44	45	46	40	38	41	43	42	43	46	45	43	41	43	39	29	42	46	37	47	50	44	41	40	42	45	43	49	41	40		
KLAMATH	MAX 61	59	55	53	62	61	57	62	62	60	67	58	58	57	54	57	64	56	58	58	60	61	64	61	59	50	59	58	53	56	51		
	MIN 38	38	44	42	31	33	45	37	39	45	41	45	47	41	43	41	43	42	44	41	47	45	41	40	48	42	39	38	45	39	41		
LAVA BEDS NAT MONUMENT	MAX 49	51	51	54	40	45	55	60	55	57	57	51	58	50	51	40	41	45	30	48	48	48	50	54	44	40	58	40	49	3			
	MIN 29	28	30	19	18	31	25	33	31	33	31	31	33	27	28	28	20	28	20	30	30	32	28	38	24	29	38	25	29	28	4		
MOUNT HEBRON R S	MAX 54	55	55	32	43	57	63	55	59	47	59	47	38	40	45	46	26	26	26	26	55	56	55	51	44	56	44	56	44	27	26		
	MIN 20	20	21	16	16	20	20	19	19	19	19	19	19	19	19	19	11	11	11	11	26	20	20	20	20	20	20	20	20	20	20		
NAPA STATE HOSPITAL	MAX 60	65	59	54	70	65	62	72	74	72	75	67	61	63	60	67	70	65	60	56	65	67	70	69	63	65	74	75	68	66	63		
	MIN 50	42	43	48	36	39	43	41	41	41	44	48	44	41	44	41	42	43	46	38	48	49	39	42	53	43	48	42	44	37	38		
ORICK PRAIRIE CREEK PK	MAX 63	60	55	53	59	59	58	62	64	58	66	58	53	58	56	57	62	59	57	55	61	61	64	63	58	51	57	58	56	57	52		
	MIN 40	33	42	40	29	31	43	34	33	44	36	42	45	39	38	40	35	43	48	40	45	42	44	43	48	41	34	34	43	35	38		
ORLEANS	MAX 69	70	58	54	65	66	57	69	73	67	77	67	58	66	59	63	62	58	63	60	60	66	67	58	57	56	70	73	62	61	55		
	MIN 42	38	46	42	32	30	44	45	4																								

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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				
TRINITY RIVER HATCH	MAX MIN	54 34	56 35	66 35	60 38	45 31	58 28	63 29	51 41	66 33	71 35	69 38	71 32	64 34	57 42	50 43	45 34	57 29	58 32	48 34	52 35	48 35	51 39	59 40	62 38	60 41	51 36	55 32	65 34	74 37	53 29	60 33	58.2 35.2		
TULELAKE	MAX MIN	53 26	56 25	57 23	54 31	45 26	49 18	48 21	58 22	53 21	63 24	62 19	62 21	60 30	53 22	44 30	47 14	49 25	48 35	48 28	52 47	53 35	56 29	59 38	51 45	56 28	63 38	60 28	44 28	48 28	53.5 27.0				
UKIAH	MAX MIN	65 41	69 34	63 43	57 43	65 34	67 35	61 40	69 39	72 39	70 41	78 41	69 39	59 47	64 41	60 45	65 34	68 36	66 45	60 45	51 37	64 45	62 44	69 37	64 41	61 50	59 41	67 43	75 40	66 47	65 35	61 39	64.9 40.7		
WARM SPRINGS DAM	MAX MIN																																		
WEAVERVILLE RANGER STA	MAX MIN		58 30	66 32	66 31	45 23					71 31	66 32	71 31	66 35	66 28		57 20	57 31	48 36	54 29				60 35	60 31	61 39	55 33	52 32		72 27		59 30			
WEED FIRE DEPARTMENT	MAX MIN	54 28	54 27	57 26	60 27	33 24	43 19	45 21	49 21	59 27	64 29	55 30	58 32	60 22	45 23	50 30	42 28	46 19	49 19	46 35	49 32	45 34	48 35	55 37	57 38	56 37	53 33	46 34	51 29	64 30	49 29	50 29	51.4 29.2		
WILLITS 1 NE	MAX MIN	62 41	65 34	63 45	55 40	63 39	64 31	58 41	67 40	68 35	67 32	73 35	69 35	56 39	58 36	56 34	61 35	66 31	65 41	51 41	60 34	63 43	56 38	51 48	60 35	62 48	65 36	59 48	54 39	63 42	63 29	60 29	62.3 37.3		
WILLOW CREEK 1 NW	MAX MIN	64 36	65 36	68 38	59 35	58 31	63 31	65 31	63 31	71 31	73 34	65 38	65 34	65 36	56 43	56 36	50 36	62 43	62 36	57 41	60 36	55 39	60 41	72 37	65 34	66 40	52 35	50 31	69 37	73 42	53 28	60 36	62.6 36.6		
YREKA	MAX MIN	54 28	62 29	63 28	58 32	42 26	51 24	52 29	50 29	61 28	67 32	61 30	64 29	63 35	52 29	56 34	49 30	52 22	56 32	52 35	54 29	54 34	56 34	59 35	60 31	61 37	55 40	51 32	61 29	67 38	50 30	51 35	56.3 30.9		
SACRAMENTO DRAINAGE 02																																			
ADIN RANGER STATION	MAX MIN		55 16	55 24	51 21	47 20	52 20	30		63	61 26	62 20	55 27	53			45 24	49 19	49 28	45 32	45 27			54 33	58 26	53 26	44 29	54 36			50	50	52 28	52.3 26.3	
ALTURAS RANGER STATION	MAX MIN	48 29	54 20	55 17	56 27	34 23	41 16	49 26	51 28	58 20	62 21	60 20	61 22	55 23	51 30	38 25	42 12	47 22	52 36	45 28	47 32	53 30	54 23	55 19	60 32	54 29	42 30	53 29	62 20	62 30	42 23	44 24	51.2 24.4		
AUBURN	MAX MIN	56 41	62 44	57 41	56 41	49 38	63 38	58 39	64 42	64 42	68 43	67 41	69 40	63 42	51 44	53 41	53 42	61 39	62 39	56 45	53 41	55 42	55 42	56 43	59 45	59 43	67 43	56 40	60 37	69 44	60 35	60 34	59.8 41.0		
AUBURN DAM PROJECT	MAX MIN	56 37	61 32	55 35	56 37	56 32	61 32	57 34	61 36	63 37	61 39	66 36	69 37	62 36	52 35	54 36	53 36	55 32	55 32	56 41	53 39	55 42	58 41	63 38	56 43	56 40	65 38	65 34	67 42	61 31	60 34	59 36	58.6 36.7		
BLUE CANYON WSMO	MAX MIN	50 33	47 30	50 34	35 31	49 31	49 34	44 34	57 36	56 39	51 40	58 38	51 34	34 31	38 29	42 30	45 29	55 35	44 35	42 29	55 35	37 27	34 31	39 30	40 34	50 34	51 36	42 31	34 28	48 26	48 31	46 32	46.2 32.4		
BOHMAN DAM	MAX MIN	47 28	48 27	50 30	44 30	44 28	52 29	49 31	58 29	58 34	61 31	59 27	58 34	34 30	39 24	42 32	45 25	55 21	49 30	36 30	36 24	41 26	40 26	50 30	53 29	54 34	40 30	40 25	48 26	56 35	48 19	47 28	48.0 28.9		
BROOKS FARNHAM RANCH	MAX MIN	57 47	64 40	64 34	62 47	58 35	68 41		71		73 38	76 41	74 38	63 43	61 39	61	55 44	66 39	66 41	57 44	58 35	56 47	63 46	68 37	67 42	64 41	62 37	70 31	77 49	65 31	66 34	64.7 39.6			
BURNEY	MAX MIN	52 24	59 19	61 20	59 21	38 22	45 20	55 21	50 26	59 21	64 21	65 20	67 22	59 25	54 33	47 26	44 16	48 21	54 20	50 28	47 30	45 30	47 30	52 23	55 23	60 26	57 30	47 23	58 31	68 49	51 23	55 23	53.9 24.1		
CANBY RANGER STATION	MAX MIN		54 22	56 22	55 31	50 20	48 18			60	62 24	60 22	60 24	58 30	56		24	14	23	34	30			53 28	57 22	56 38	52 30	52 33	63 23	44	26		54.1 25.5		
CANYON DAM	MAX MIN	52 29	54 28	54 24	54 33	47 26	48 24	52 33	50 30	54 27	59 33	59 30	58 26	53 32	48 31	29	43 32	48 20	52 28	46 32	40 28	41 31	47 37	53 41	56 29	54 42	53 28	61 31	60 32	47 22	50 26	50.8 28.5			
CHESTER	MAX MIN	54 26	58 24	58 21	47 33	46 26	53 23	51 30	60 24		62 23	63 25	57 22	55 30	47 27	40 20	46 15	54 15	50 32	42 32	42 26	47 31	50 30	55 28	57 24	51 27	44 27	54 34	65 27	47 30	50 20	54 19	52.0 26.1		
CHICO UNIVERSITY FARM	MAX MIN	54 37	68 38	61 38	58 43	49 38	63 39	58 44	60 44	63 40	71 40	73 38	75 40	66 35	56 46	56 44	40 34	61 43	64 43	58 46	58 43	58 43	63 46	63 42	67 40	64 51	63 38	72 46	71 33	72 37	64 37	62.8 40.7			
CLEARLAKE HIGHLANDS	MAX MIN	50 42	61 32	63 34	58 42	48 31	61 28	63 32	59 33	66 33	68 38	67 35	72 40	63 42	60 38	48 31	59 31	53 39	52 36	53 36	48 43	53 36	53 36	58 43	61 36	65 40	59 46	63 37	66 44	59 30	62 33	60.2 35.9			
COLFAX	MAX MIN	60 34	54 42	54 34	50 41	64 35	63 35	57 38	62 36	65 38	67 37	67 38	64 43	52 39	49 36	50 39	57 37	62 38	57 43	50 40	49 37	50 38	52 44	61 38	63 41	62 47	51 38	62 35	65 39	65 44	65 34	58 38	58.3 38.6		
COLUSA 2 SSM	MAX MIN																																		
DAVIS 2 WSH EXP FARM	MAX MIN	55 44	58 45	59 36	60 42	52 37	62 37	63 42	65 41	68 40	72 44	72 41	71 40	63 44	59 42	60 44	51 40	61 44	63 44	53 40	57 43	59 40	46 26	57 32	57 26	55 26	43 28	48 30	53 25	57 23	60 23	64 30	62.5 41.4		
DEER CREEK FOREBAY	MAX MIN	46 28	51 29	48 26	52 29	39 26	52 29	54 30	60 30	60 35	62 35	63 39	63 35	58 29	39 26	43 27	45 27	50 33	59 33	46 28	39 25	40 26	43 26	48 30	53 32	57 26	46 25	55 25	62 30	64 23	51 30	50.3 29.6			
DE SABLE	MAX MIN	63 31	59 31	57 32	46 39	60 32	58 32	63 39	60 35	67 35	63 36	65 40	67 36	55 37	44 37	46 36	53 29	58 28	55 37	48 38	47 35	48 35	54 38	57 37	50 35	60 44	63 35	65 44	63 32	65 32	53 28	57 28	56.5 34.5		
DOBBINS 1 S	MAX MIN		57 31	52 43	65 33	60 34	63 36	67 34	68 36	65 36	68 37	69 33	65 37	52 41	52 39	50 40	58 36	64 29	56 39	51 41	54 40	54 39	62 41	68 35	64 40	60 49	53 43	65 44	65 33	64 33	59 36	61 34	59.6 37.1		
DOWNIEVILLE RANGER STA	MAX MIN	59 36	62 31	67 38	45 33	57 30	58 37	57 32	65 32	66 31	76 30	68 32	61 37	57 37	49 36	49 30	56 28	65 35	62 38	51 32	45 33	48 38	51 32	59 39	62 35	47 34	59 34	62 37	65 42	52 30	59 31	57 36	57.8 33.9		
DUNSMUIR TRMT PLANT	MAX MIN	60 31	64 29	62 28	40 30	52 35	61 33	47 34	64 33	69 29	65 31	70 42	63 33	56 36	46 40	44 34	55 34	60 29	48 29	46 31	43 33	44 32	56 33	58 39	60 32	55 37	55 34	60 39	73 38	54 42	60 28	52 32	56.2 33.6		
EAST PARK RESERVOIR	MAX MIN	55 40	64 39	62 35	58 37	48 40	60 34	60 39	60 40	67 36	67 39	72 38	72 38	64 38	58 44	55 40	48 30	57 40	63 32	54 42	50 38	50 40	60 42	66 40	63 43	64 40	58 33	68 39	74 45	62 31	62 43	60.9 38.3			
FAIRFIELD FIRE STN 2	MAX MIN	59 46	59 41	62 35	64 42	55 34	70 41	68 32	67 47	70 37	75 50	75 38	73 45	64 41	61 40	65 44	53 34	63 40	67 44	55 47	63 34	67 44	56 45	68 45	69 37	72 48	71 40	55 48	69 33	79 47	67 39	61 41	65.7 41.2		
FOLSOM DAM	MAX MIN	58 47	60 47	58 44	59 47	52 41	64 41	60 44	64 46	67 46	70 47	69 46	72 46	61 43	57 45	58 46	54 48	62 43	64 45	58 48	57 43	56 45	60 43	65 43	67										

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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			
JESS VALLEY	MAX MIN	48 28	51 22	52 22	44 30	42 22	46 11	45 29	52 22	58 26	58 26	56 22	56 26	56 26	52 27	46 22	38 21	44 12	47 23	45 33	42 28	42 30	48 30	51 26	50 35	50 39	43 23	47 28	55 24	53 29	40 21	44 24	48.4 25.4	
LAKEPORT	MAX MIN	63 39	63 33	63 35	62 41	63 28	64 31	60 39	65 39	71 34	70 34	72 37	63 37	59 41	59 35	55 37	59 31	64 32	63 41	58 37	49 32	62 43	63 43	64 33	63 38	59 49	57 35	69 34	75 36	65 43	64 30	63 34	62.9 36.5	
LAKE SOLANO	MAX MIN	55 44	57 40	61 40	60 40	56 45	64 43	63 41	63 44	66 43	70 43	72 42	72 44	60 44	59 42	61 44	54 37	62 39	65 45	51 47	58 36	53 43	63 47	63 40	67 44	67 47	62 40	62 44	72 44	74 44	62 41	64 39	62.5 43.2	
LAKE SPAULDING	MAX MIN	50 24	52 30	53 30	45 30	48 26	50 28	52 28	60 25	61 27	63 26	61 28	55 25	46 30	39 30	51 30	56 28	51 28	51 27	39 28	39 28	42 29	43 30	51 28	54 33	48 39	39 26	49 25	42 25	49 25	42 29	49 22	52 25	49.6 27.6
MANZANITA LAKE	MAX MIN	46 24	49 32	50 35	49 29	35 22	35 29	49 29	42 25	53 25	56 26	55 26	57 30	50 32	40 27	35 27	40 26	41 13	51 30	45 30	41 28	40 28	45 30	47 25	48 23	49 30	46 25	38 23	48 30	60 31	41 29	45 34	46.0 27.7	
MARKLEY COVE	MAX MIN	54 44	60 40	60 40	58 44	49 35	65 39	65 41	63 40	62 43	70 43	73 42	70 43	55 43	59 41	60 41	51 35	61 38	68 41	56 43	57 35	52 42	63 44	61 38	65 39	68 44	60 40	61 39	69 41	74 42	63 41	65 37	61.8 40.3	
MARYSVILLE	MAX MIN	59 43	67 42	64 39	63 43	52 40	65 42	65 42	68 44	69 45	73 47	73 45	75 46	69 41	62 47	62 45	53 45	63 47	64 46	58 48	59 41	60 47	64 45	67 45	68 45	71 52	65 44	63 44	72 44	74 50	71 39	65 39	65.3 43.9	
MC CLOUD	MAX MIN	56 28	59 25	69 23	56 25	52 25	52 29	58 28	43 29	61 25	64 27	63 29	64 28	60 31	55 29	43 33	40 30	42 21	58 26	45 32	46 31	39 32	46 33	52 32	56 32	52 33	53 32	52 27	62 31	61 38	50 24	57 25	53.7 28.9	
MINERAL	MAX MIN	47 27	48 24	53 21	36 40	45 45	48 43	42 43	52 44	52 45	56 43	58 42	55 43	54 26	42 29	37 28	39 17	42 21	48 21	45 31	39 24	37 30	46 24	44 27	52 32	45 27	37 27	49 29	58 22	42 25	45 25	46.4 25.6		
MOUNT SHASTA WSD CI	MAX MIN	53 29	57 32	58 27	39 40	42 45	53 43	46 43	59 44	64 40	64 43	63 42	60 29	48 26	43 25	41 31	48 27	53 20	44 33	43 31	43 29	53 35	55 31	55 29	53 35	48 32	53 32	53 37	66 44	48 33	51 29	48 30	51.2 30.1	
NEVADA CITY	MAX MIN	50 33	55 37	49 30	52 31	42 31	60 31	52 32	55 33	58 35	33 34	64 33	64 33	36 36	36 36	36 36	47 32	54 29	59 30	50 42	44 36	45 36	47 41	49 36	59 34	62 35	48 36	47 31	62 62	63 36	53 30	55 31	53.5 33.8	
ORLAND	MAX MIN	57 43	68 45	63 44	60 44	49 44	63 42	62 43	62 42	68 44	71 48	76 48	68 45	61 45	58 44	40 44	49 40	62 44	64 44	57 48	58 39	57 45	60 46	65 43	62 64	64 44	68 44	62 44	72 44	75 47	67 36	65 39	63.1 43.5	
OROVILLE DAM	MAX MIN	60 45	66 47	57 43	58 45	48 39	68 41	59 44	63 46	67 48	70 48	70 49	71 45	67 44	56 45	55 47	52 43	61 49	62 46	59 46	54 42	56 43	59 48	62 47	66 48	60 50	61 47	71 47	71 50	63 40	63 44	62.0 45.1		
PARADISE	MAX MIN	56 39	66 43	57 37	54 43	47 36	65 38	55 41	58 41	63 43	68 43	72 48	72 48	65 42	50 41	50 41	43 34	53 37	52 45	50 44	53 38	52 39	63 43	63 43	52 45	47 47	59 39	63 40	49 49	68 47	59 34	41 41	41.6 41.6	
PLACERVILLE	MAX MIN	56 40	57 37	50 34	55 40	49 34	60 33	54 36	57 35	61 35	65 36	65 36	67 44	65 35	46 34	52 33	55 34	58 30	61 33	57 44	48 38	52 39	56 40	55 38	61 35	65 43	53 40	50 36	61 61	64 36	58 34	59 34	57.2 36.6	
PLACERVILLE IFG	MAX MIN	58 40	58 37	56 34	50 40	59 34	56 37	58 40	63 40	66 41	65 44	69 45	65 44	47 35	45 36	49 37	57 41	62 44	57 44	49 41	48 34	47 40	50 41	59 37	64 44	60 46	48 46	60 42	64 42	51 34	64 39	61 39	57.0 39.3	
PORTOLA	MAX MIN	48 22	53 29	57 21	48 32	49 30	55 25	55 26	60 23	60 23	62 23	59 25	55 23	46 35	48 33	40 33	49 27	53 10	49 48	50 34	53 27	53 32	53 36	53 25	53 30	47 39	44 27	52 32	65 26	58 31	58 20	52 20	51.4 27.4	
QUINCY USFS HELIPORT	MAX MIN	57 24	62 20	62 21	61 27	42 26	56 30	65 30	63 22	68 26	66 29	62 29	52 33	46 29	56 24	57 24	52 33	42 32	57 32	52 33	48 30	47 32	51 60	60 33	60 32	51 31	60 35	62 31	53 28	39 27	45 35	56 28	55.8 27.3	
RED BLUFF WSO AP	MAX MIN	72 47	65 44	60 39	54 46	64 64	61 45	62 47	70 43	72 43	76 46	78 48	63 43	62 48	50 48	51 42	64 38	65 43	57 46	59 49	58 43	59 46	66 48	70 45	62 45	64 46	63 46	73 45	70 46	68 46	66 40	62 44	64.6 44.8	
REDDING FIRE STN 4	MAX MIN	70 36	68 36	61 36	54 45	62 45	63 46	58 46	71 41	71 35	75 38	78 52	72 39	64 45	55 49	52 47	62 35	67 36	55 40	59 46	54 42	52 41	64 48	67 41	63 39	65 51	60 42	62 42	79 43	70 50	66 33	62 37	64.2 42.0	
SACRAMENTO FAA AP	MAX MIN	57 44	58 44	56 38	50 42	62 39	58 38	62 43	65 42	68 40	69 44	67 44	60 44	55 45	58 46	40 44	59 40	61 44	55 44	57 46	55 40	62 44	62 45	64 41	65 41	61 48	59 48	67 41	68 39	63 41	61 36	61 38	60.5 41.9	
SACRAMENTO WSD CI	MAX MIN	62 46	65 49	62 44	54 44	64 64	65 45	68 49	70 46	74 48	74 50	75 60	64 54	62 42	64 41	53 49	62 42	65 44	60 49	63 47	61 44	67 49	70 52	70 48	74 48	66 60	64 46	71 46	76 49	68 68	65 44	66 45	65.9 47.0	
SHASTA DAM	MAX MIN	57 42	62 42	71 42	60 42	45 40	59 43	63 43	55 45	66 43	71 44	71 43	77 47	67 45	62 45	65 45	37 37	38 38	43 43	44 44	40 40	38 40	50 38	52 46	60 46	64 45	46 46	40 44	47 47	50 39	42 42	60.7 42.8		
SIERRA CITY	MAX MIN																																	
SIERRAVILLE RANGER STA	MAX MIN	50 20	54 24	58 28	50 32	57 31		62 24	64 28	64 24	62 22	58 28		52 22	50 18	54 26	52 24	46 26				54 28	56 22	58 32	50 24	46 30							54.9 25.4	
STONY GORGE RESERVOIR	MAX MIN	57 39	66 42	63 37	56 39	49 42	62 34	61 37	59 42	69 39	68 40	74 48	75 43	63 42	60 46	58 43	49 33	59 32	65 35	56 44	57 38	51 41	59 43	63 41	61 42	62 45	67 41	61 35	70 41	73 49	64 34	62 37	61.9 39.7	
STRAWBERRY VALLEY	MAX MIN	57 29	53 32	55 30	42 32	54 30	56 30	53 34	64 31	62 28	67 30	67 32	43 30	44 35	43 35	53 33	64 24	56 38	41 32	44 33	44 30	59 32	52 33	60 30	60 30	52 45	48 31	60 32	65 30	60 38	56 35	55 33	54.3 31.5	
TWIN LAKES	MAX MIN	38 22	38 26	42 18	36 20	36 22	48 21	46 24	47 28	46 28	44 22	46 21	36 22	45 18	44 25	47 17	50 12	40 26	38 20	36 18	39 20	57 30	43 18	58 20	44 24	46 20	32 22	52 28	40 22	41 28	44 24	43.3 22.1		
VACAVILLE	MAX MIN	59 41	62 45	60 32	54 45	66 43	65 37	65 47	68 39	71 39	73 39	71 43	67 43	62 44	62 43	59 41	62 44	65 43	61 43	59 46	55 40	66 42	67 46	65 36	69 36	67 47	65 37	69 42	64 53	64 43	70 39	64 37	64.6 41.6	
WHISKEYTOWN RES	MAX MIN	57 37	63 36	69 38	62 42	47 36	61 40	63 43	51 42	67 41	71 44	68 47	62 42	68 43	62 44	48 44	46 35	60 35	64 41	51 43	53 39	51 40	52 42	61 42	61 41	46 46	39 39	42 41	60 45	59 47	58 38	63 39	60.5 41.1	
WILLIAMS	MAX MIN	64 46	69 44	60 40	63 40	63 40	60 42	65 40	70 42	73 42	75 45	69 39	65 45	60 45	51 40	53 39	66 44	56 43	56 44	62 43	65 44	61 45	65 44	69 45	61 45	68 45	63 44	69 45	77 45	68 44	65 40	69 40	64.7 42.3	
WILLOWS 6 W	MAX MIN	67 39	66 41	61 39	58 45	62 42	61 38	62 40	67 44	70 44	73 44	76 44	74 43	65 42	61 42	55 45	60 37	62 40	62 36	56 45	50 39	59 44	64 45	66 45	66 45	67 45	62 45	69 44	74 45	73 44	63 39	66 40	64.4 41.2	

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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			
CEDARVILLE	MAX 50	53	54	55	40	35	45	49	57	58	59	58	54	55	51	41	45	47	49	43	45	50	54	53	58	53	42	52	59	44	41	50.0		
	MIN 32	29	25	25	26	22	24	27	27	30	31	33	29	29	31	20	21	26	35	32	32	33	30	27	58	53	42	31	38	30	27	28.9		
DONNER MEMORIAL ST PK	MAX 45	45	48	51	42	42	43	48	51	58	57	55	52	38	48	47	43	55	45	40	37	42	47	51	53	40	39	45	51	40	46	46.6		
	MIN 14	25	15	15	26	23	25	20	19	22	18	19	20	22	20	21	10	11	25	21	23	29	21	19	53	20	21	22	10	23	20.1			
DOYLE 4 SSE	MAX 52	55	57	50	41	52	55	59	62	61	59	60	53	56	57	51	48	51	49	48	56	57	57	62	55	48	57	62	52	48	57	54.4		
	MIN 22	34	22	38	29	28	31	26	23	26	21	26	26	21	26	31	27	28	28	16	26	30	31	30	34	27	25	23	28	35	26	26	27.9	
ECHO SUMMIT	MAX 38	36	39	43	39	36	43	41	46	49	48	44	40	32	40	39	38	47	40	30	34	35	38	43	49	37	30	35	48	34	39	39.7		
	MIN 19	24	21	21	23	20	21	23	23	25	26	23	25	19	19	20	18	18	26	19	19	26	19	19	25	20	19	24	25	9	9	20.7		
FORT BIDWELL	MAX 53	55	58	52	41	49	49	57	62	60	63	64	57	61	52	45	48	47	50	50	48	57	58	62	53	44	55	64	59	48	48	53.8		
	MIN 30	26	22	32	25	18	27	27	26	26	26	24	27	25	25	32	18	26	34	33	29	30	29	26	30	29	26	28	33	30	28	27.9		
MONO LAKE	MAX 40	41	48	47	44	47	50	53	54	56	47	45	43	50	55	53	55	56	53	55	56	41	41	46	54	58	56	58	55	50	49.7			
	MIN 29	31	25	22	24	23	25	30	24	25	23	25	27	26	24	27	26	24	26	26	24	31	21	23	23	25	26	34	24	23	18	21	24.8	
SAGEHEN CREEK	MAX 41	45	50	43	38	48	46	50	54	53	51	51	43	47	44	43	47	38	38	34	41	45	49	53	48	48	40	56	54	43	45	45.7		
	MIN 14	22	12	21	28	20	23	16	16	18	16	16	17	22	22	16	5	20	32	20	26	32	19	12	48	38	18	17	25	8	16	19.8		
SUSANVILLE AIRPORT	MAX 51	52	58	60	46	44	50	55	57	60	60	59	61	56	54	49	48	49	51	47	48	50	55	58	58	53	48	55	67	49	50	53.5		
	MIN 28	31	24	37	30	26	33	25	25	28	24	21	35	29	27	29	18	25	38	30	34	37	28	27	42	26	36	29	39	20	26	29.3		
TAHOE CITY	MAX 43	40	45	48	41	41	45	47	49	51	52	49	51	40	47	47	44	43	47	38	38	44	41	45	49	43	48	55	47	49	50	45.7		
	MIN 22	28	22	28	28	27	28	25	23	28	25	23	28	24	25	21	17	25	29	18	25	32	22	27	32	24	23	36	23	26	25	29	25.1	
TAHOE VALLEY FAA AP	MAX 39	40	44	44	36	45	43	47	49	50	49	48	33	44	48	45	51	45	45	41	40	46	49	52	45	33	39	51	39	40	48	43.8		
	MIN 18	18	17	14	25	20	24	21	19	20	18	19	25	15	21	24	12	20	19	20	21	26	20	21	26	46	19	19	21	20	5	19	20.0	
TERMO	MAX 48	54	54	40	44	47	47	54	57	56	55	55	54	52	45	44	48	50	43	42	46	50	51	54	52	42	49	61	48	43	51	49.5		
	MIN 21	18	14	29	5	13	30	24	21	20	20	18	30	19	20	19	12	25	32	18	30	32	26	20	50	36	26	29	27	22	21	22.8		
TRUCKEE RANGER STATION	MAX 43	43	46	50	42	41	50	48	54	54	55	54	51	38	48	47	43	52	47	39	36	43	46	51	55	41	36	43	55	44	41	46.3		
	MIN 15	25	19	21	28	23	27	21	22	21	20	21	27	24	22	23	13	24	32	21	24	32	20	20	30	20	26	25	33	13	20	23.0		
WOODFORDS	MAX 42	47	44	45	42	52	48	49	58	57	54	55	49	54	54	51	49	51	46	40	50	55	55	59	56	43	45	58	57	47	54	50.3		
	MIN 27	24	32	28	27	31	29	30	29	31	24	26	29	26	28	33	21	22	34	26	30	27	26	31	36	24	27	27	26	18	28	27.6		
CENTRAL COAST DRAINAGE	04																																	
BEN LOMOND 4	MAX 55	61	59	53	63	64	63	72	75	72	70	64	61	61	57	65	70	64	57	51	64	66	69	70	66	59	69	70	65	67	68	64.2		
	MIN 44	45	44	40	39	36	36	41	40	39	42	50	42	40	38	37	35	35	49	39	47	45	37	38	51	42	37	38	47	37	35	40.8		
BERKELEY	MAX 58	60	55	54	61	62	62	67	67	65	66	56	58	58	53	62	65	56	59	53	62	63	64	63	59	60	68	67	60	62	59	60.8		
	MIN 43	51	50	48	39	44	49	48	51	47	51	51	44	44	48	44	47	49	48	43	47	52	46	48	52	45	45	48	50	43	47	47.2		
GILROY	MAX 57	62	60	54	59	59	59	63	64	60	60	59	60	61	56	62	66	59	57	54	60	63	61	61	59	57	60	73	68	58	60	60.4		
	MIN 49	50	52	49	40	41	49	40	41	43	46	44	50	44	44	44	46	43	48	41	48	49	41	44	52	45	50	42	41	49	53	45.9		
HALF MOON BAY	MAX 62	61	59	54	60	61	65	72	75	71	72	56	58	62	59	66	70	58	62	58	65	67	69	72	64	59	66	68	62	66	65	64.0		
	MIN 46	43	45	41	42	36	40	44	41	40	43	47	43	41	39	38	36	38	43	41	49	49	41	49	46	40	39	46	46	38	35	41.8		
HOLLISTER 2	MAX 68	64	62	56	59	65	67	72	78	75	75	70	58	65	69	69	74	73	66	60	67	69	70	76	72	59	66	74	67	67	73	67.9		
	MIN 47	38	44	43	42	37	44	42	39	39	42	45	39	35	39	43	36	37	58	36	47	49	39	38	48	44	36	37	44	34	41.4			
KING CITY	MAX 68	64	62	56	59	65	67	72	78	75	75	70	58	65	69	69	74	73	66	60	67	69	70	76	72	59	66	74	67	67	73	67.9		
	MIN 46	45	47	43	40	37	39	43	40	39	43	40	44	45	43	38	44	41	49	37	47	49	37	47	46	38	40	52	44	39	40	41.4		
LIVERMORE-VYVERBERG	MAX 56	60	62	60	64	67	64	68	74	72	73	69	60	61	57	63	64	60	57	55	67	67	67	72	66	62	70	76	68	66	62	64.8		
	MIN 46	45	47	43	40	37	39	43	40	39	43	40	44	45	43	38	44	41	49	37	47	49	37	47	46	38	40	52	44	39	40	48	42.6	
LOS GATOS	MAX 56	61	58	55	62	67	66	70	73	70	76	67	60	63	58	63	67	63	56	55	66	66	67	73	64	59	68	75	63	65	64	64.4		
	MIN 44	44	46	45	38	36	40	45	42	47	45	46	42	44	42	40	40	41	49	38	47	46	40	40	51	42	40	41	45	39	37	42.6		
MARTINEZ WATER PLANT	MAX 58	61	57	54	64	66	65	68	72	72	72	60	63	62	52	65	65	55	62	55	66	67	69	69	65	63	71	76	63	66	65	64.1		
	MIN 42	45	50	51	45	46	44	44	43	48	48	49	44	44	44	44	41	43	48	41	48	48	42	43	54	47	46	45	50	41	42	45.5		
MONTEREY	MAX 61	61	55	50	59	60	64	68	71	63	63	56	57	59	60	62	68	56	46	47	43	42	48	51	46	47	50	45	45	46	48	43	43	45.7
	MIN 46	46	48	44	45	46	44	46	48	46	47	50	41	47	43	42	41	44	48	42	48	54	47	49	56	49	49	46	48	43	43	45.7		
MORRO BAY FIRE DEPT	MAX 60	62	60	56	57	60	62	70	73	72	63	60	57	60	61	59	69	75	64	58	60	65	67	69	63	60	57	69	63	60	60	62.6		
	MIN 48	43	49	43	42	47	42	47	51	45	44	42	42	40	46	51	50	40	46	43	48	50	47	51	50	49	38	42	48	42	45	45.5		
MOUNT DIABLO JUNCTION	MAX 49	49	54	47	43	59	58	57	63	67	68	66	46	53	54	47	57	61																

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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					
SALINAS 3 E	MAX 49	62	62	59	53	60	61	62	70	72	64	66	58	59	59	62	66	71	61	64	59	65	65	66	71	61	58	64	63	61	61	63	62	68		
	MIN	45	42	43	42	43	41	40	42	45	42	44	48	44	44	41	42	41	39	47	42	49	51	42	43	47	41	39	44	52	39	42	44	41		
SALINAS FAA AP	MAX	60	60	55	50	57	59	62	66	71	64	64	55	57	58	62	65	69	56	61	56	64	63	69	61	57	62	61	62	61	60	61	61	60		
	MIN	45	42	43	42	43	41	40	42	45	42	44	48	44	43	41	40	40	39	47	43	49	48	39	42	46	44	41	41	43	36	37	42	46	41	
S F RICHMOND SUNSET	MAX	59	64	56	54	58	62	60	69	64	64	63	60	58	61	60	58	67	63	61	54	63	65	65	61	62	59	60	65	59	59	63	60	61	62	
	MIN	45	46	47	48	44	42	47	46	46	47	51	46	44	47	51	46	42	46	48	42	48	52	43	45	48	43	44	45	45	44	43	47	46	44	
SAN FRANCISCO WSO AP	MAX	56	59	55	53	58	59	59	65	67	64	66	57	58	58	54	62	63	54	60	55	63	61	63	64	62	57	63	69	58	60	59	60	60	60	
	MIN	48	48	50	45	40	42	46	47	47	47	49	46	46	47	46	42	48	49	48	41	50	51	43	46	49	46	45	48	48	43	47	46	44		
SAN FRANCISCO WSO CI	MAX	57	59	54	53	59	61	61	66	67	65	66	56	59	58	55	62	66	56	58	53	62	64	63	63	59	56	64	68	56	59	56	60	60	60	
	MIN	50	51	51	48	46	49	50	51	52	51	52	50	46	42	52	48	51	50	50	47	50	52	50	50	50	48	51	51	49	48	48	48	48	48	
SAN GREGORIO 2 SE	MAX	58	61	55	51	56	60	64	64	68	62	62	56	56	60	55	64	68	56	57	53	64	66	62	67	59	57	60	62	58	59	60	60	60	60	
	MIN	45	43	48	44	36	39	41	46	42	42	43	46	44	45	42	36	42	40	47	40	50	48	39	41	50	44	42	39	49	37	40	42	42	42	
SAN JOSE	MAX	58	62	60	57	60	65	66	68	71	70	70	69	59	62	62	63	66	66	59	56	67	65	65	72	68	61	68	72	68	64	63	64	63	64	
	MIN	47	50	49	49	43	42	46	46	47	47	44	49	53	44	48	48	44	42	49	52	42	49	48	44	45	55	46	42	45	50	42	42	42	42	
SAN LUIS OBISPO POLY	MAX	59	60	62	61	56	54	60	65	73	77	74	70	58	55	62	64	66	75	64	57	60	58	69	69	72	64	58	61	64	67	64	67	63	69	
	MIN	45	46	45	49	42	40	42	46	49	42	46	46	40	39	40	40	39	40	40	39	43	40	39	43	58	69	69	72	64	58	41	45	44	48	
SANTA CRUZ	MAX	54	58	62	57	50	62	63	65	71	74	69	67	57	61	62	55	64	69	63	58	53	65	69	69	70	59	60	69	66	64	67	63	60	63	
	MIN	45	46	45	43	39	38	40	44	43	42	46	49	42	46	40	41	39	39	40	38	46	48	41	41	49	43	40	43	48	39	39	39	39	42	
UPR SAN LEANDRO FILTER	MAX	67	58	62	63	51	62	63	69	71	67	70	70	56	60	61	52	65	67	57	59	54	63	66	57	68	61	59	68	71	60	65	62	63	63	
	MIN	48	48	48	48	40	39	42	47	46	46	49	49	44	45	47	42	43	48	48	42	44	49	43	44	54	45	42	43	48	42	42	42	42	42	42
WATSONVILLE WATERWORKS	MAX	61	60	60	59	54	60	61	63	72	73	68	69	57	61	61	59	66	71	57	61	57	60	66	66	70	60	61	67	64	60	64	67	63	61	63
	MIN	46	48	47	44	43	42	41	46	44	42	42	46	42	43	46	44	45	41	40	40	41	40	47	40	47	50	43	43	40	45	39	44	38	40	40
WOODSIDE FIRE STN 1	MAX	55	61	56	53	63	62	67	71	73	74	73	66	62	61	56	66	68	65	59	57	64	63	67	65	62	61	70	78	65	67	64	63	64	63	
	MIN	44	44	41	43	35	35	37	39	39	37	42	43	43	40	40	36	35	40	47	37	47	48	36	39	42	42	42	40	45	42	37	40	42	40	40
x x x																																				
SAN JOAQUIN DRAINAGE 05																																				
ANTIOCH PUMPING PL 3	MAX	53	56	59	59	51	64	65	64	66	72	72	73	64	59	62	53	63	64	55	60	55	65	66	67	69	63	63	70	73	63	65	63	60	63	
	MIN	42	47	41	46	43	43	41	42	41	43	43	43	41	43	42	39	43	42	48	40	40	41	40	40	53	43	42	46	46	38	38	38	42	46	
ASH MOUNTAIN	MAX	57	56	60	62	58	45	47	62	66	65	69	73	69	52	59	69	63	64	71	59	60	57	67	66	69	70	55	54	68	70	61	61	61	61	
	MIN	42	39	38	39	42	38	41	41	42	45	44	47	39	39	37	44	42	38	47	37	42	44	44	45	46	41	37	38	44	41	39	41	39	41	
AUBERRY 1 NW	MAX	51	52	56	56	50	55	57	61	64	63	68	60	56	62	59	60	62	59	54	57	61	62	65	61	55	51	64	58	64	58	64	59	60	59	
	MIN	41	40	37	39	39	39	43	43	45	44	42	42	32	35	36	44	42	40	45	35	40	45	43	45	46	37	34	38	46	33	38	38	40	38	
BAKERSFIELD WSO AP	MAX	60	63	63	64	50	65	64	67	70	71	73	72	57	59	68	60	66	75	65	64	70	67	65	73	76	59	61	71	64	71	64	71	65	9	
	MIN	47	43	48	44	45	47	50	47	51	50	50	47	41	43	44	52	50	44	51	47	51	55	50	51	51	48	47	47	48	45	45	48	45	48	
BALCH POWER HOUSE	MAX	49	55	54	55	55	57	55	62	66	65	68	63	64	63	64	62	60	65	62	55	56	62	63	66	64	59	50	60	65	61	67	67	67	67	
	MIN	40	40	36	39	42	41	45	41	41	41	41	68	33	36	36	44	40	39	47	35	42	41	42	41	43	39	35	37	43	38	39	39	39	39	
BUTTONWILLOW	MAX	59	59	65	65	67	50	66	65	69	72	74	74	75	60	68	65	60	68	74	63	64	70	70	68	73	76	57	63	74	67	64	66	66	66	
	MIN	46	39	40	40	42	43	48	41	44	46	50	46	45	45	45	40	41	39	49	44	51	54	40	43	46	49	45	44	43	44	39	44	39	44	
CALAVERAS BIG TREES	MAX	43	41	38	43	42	51	44	47	52	57	56	56	53	36	40	45	51	51	45	38	35	40	44	51	55	43	36	28	51	42	48	49	49	49	
	MIN	30	32	29	30	30	31	31	30	31	31	30	30	29	28	30	31	26	29	35	29	30	32	31	29	31	30	27	28	31	26	28	28	28	28	28
CAMP PARDEE	MAX	57	59	58	55	58	65	66	63	64	64	68	63	58	60	58	60	62	58	57	58	64	62	64	62	57	59	66	66	63	65	68	68	61	61	
	MIN	47	40	45	41	40	43	43	44	44	48	46	42	43	45	44	44	44	50	42	46	49	45	45	51	42	39	45	47	40	43	48	44	48	44	
CERRY VALLEY DAM	MAX	46	42	42	47	45	54	49	51	57	61	62	58	51	41	45	49	55	60	50	40	41	42	48	56	60	44	40	48	58	52	53	49	60	60	
	MIN	30	30	28	32	30	30	34	30	31	35	34	34	28	25	27	31	29	35	32	22	27	32	30	33	35	25	25	30	34	26	29	30	31	30	
COALINGA	MAX	63	58	65	67	58	64	64	68	72	71	72	74	62	61	69	68	66	78	60	59	58	66	66	72	71	69	66	72	69	65	72	66	64	64	
	MIN	45	39	48	47	42	35	41	40	41	41	41	44	44	37	38	39	41	39	50	40	48	48	43	43	43	43	46	43	42	40	44	37	36	42	40
CORCORAN IRRIG DIST	MAX	61	63	63	65	61	64	65	68	71	72	74	72	63	63	67																				



# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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				
LOGDEPOLE	MAX MIN	36 21	38 25	35 13	38 14	37 23	39 18	40 17	37 19	45 20	47 19	46 21	43 21	42 22	32 10	44 16	46 26	43 20	54 21	50 31	36 24	36 24	40 28	47 27	47 22	53 25	47 26	32 13	36 14	46 13	48 23	40 21	41.9 20.5		
LODI	MAX MIN	55 42	59 46	60 42	56 46	62 39	61 40	64 42	66 44	61 39	70 43	74 44	69 48	58 43	61 44	59 45	61 39	65 34	61 44	59 39	57 34	64 39	67 46	67 40	62 42	69 52	62 48	68 44	73 48	71 47	63 34	66 38	64.1 42.4		
LOS BANDS	MAX MIN	57 42	56 46	62 45	62 45	55 43	63 41	65 42	68 44	69 42	74 45	73 48	74 50	67 43	57 42	62 41	61 38	64 40	67 42	60 40	62 42	60 48	64 48	70 44	70 44	72 48	67 48	65 45	70 45	70 51	68 38	68 40	65.5 43.5		
LOS BANDS DET RESV	MAX MIN	55 44	54 46	58 47	59 46	53 43	59 36	62 44	64 46	65 45	70 48	69 50	72 50	65 42	54 43	59 43	60 46	62 42	63 39	61 51	59 42	58 47	61 49	66 47	66 46	69 52	65 47	59 48	67 45	66 45	63 45	64 43	62.2 45.4		
MADERA	MAX MIN	60 42	50 47	66 36	60 41	60 42	49 43	64 45	65 44	67 41	71 40	70 45	74 45	73 42	55 38	60 37	67 36	69 39	69 41	67 53	59 40	62 48	64 51	68 42	69 41	72 45	60 46	66 40	63 41	70 45	69 40	65 37	64.6 42.4		
MARICOPA	MAX MIN																																		
MERCED MUNICIPAL AP	MAX MIN	55 43	58 46	63 37	62 43	60 42	62 38	65 41	68 45	70 41	69 40	73 42	71 49	59 42	60 42	60 45	61 47	67 35	67 35	64 55	60 38	63 49	66 49	67 49	72 42	68 47	52 42	66 45	69 44	68 45	65 40	70 39	64.8 42.1		
MODESTO	MAX MIN	56 43	61 47	61 44	52 43	64 41	65 42	69 42	69 45	73 43	72 42	74 46	69 47	58 43	62 46	58 43	62 39	66 41	65 45	64 49	58 42	66 48	68 44	69 48	70 44	65 48	63 44	60 45	74 47	70 40	66 37	71 40	65.4 44.1		
NEWMAN	MAX MIN	55 40	60 45	63 43	58 46	63 43	67 40	67 42	69 44	74 42	75 44	70 44	70 47	58 42	65 40	62 38	63 38	65 35	63 39	64 50	60 36	65 47	70 44	70 40	72 41	69 44	64 40	64 38	74 37	66 44	71 35	64 36	66.5 41.0		
NEW MELONES DAM	MAX MIN	62 44	63 37	56 34	61 41	57 39	61 41	60 43	62 38	66 38	69 38	67 41	71 39	62 40	53 42	56 41	59 39	64 36	63 44	63 49	57 39	55 42	59 44	65 39	65 39	69 46	65 43	59 46	60 38	57 34	67 35	62 35	61.6 39.8		
NORTH FORK RANGER STA	MAX MIN		58 30	58 30	52 34	52 40	50 40		63 36	63 40	66 40	69 39	63 34		62 32	62 36	60 45	50 34																54 42	38.7
ORANGE COVE	MAX MIN	65 43		62 43	63 42	64 45	53 45	65 44	69 44	69 44	72 46	71 46	73 42	72 42			66 39	65 44	65 45	70 53	59 41														66.2 43.8
PORTERVILLE	MAX MIN	60 46	60 39	65 40	67 43	70 45	53 43	66 47	68 45	70 43	74 49	73 44	74 48	74 43	58 48	64 38	64 48	67 49	67 43	77 52	64 44	65 40	69 50	70 45	70 45	74 48	75 47	63 46	63 48	72 41	75 48	67 42	67 37	67.9 45.1	
POSEY 3 E	MAX MIN	45 30	43 31	44 32	43 30	42 27	43 28	44 30	47 29	54 32	53 30	51 33	51 34	49 32	47 30	48 27	51 30	55 35	52 35	53 39	43 30	40 29													45.0 30.8
SALT SPRINGS PWR HOUSE	MAX MIN	48 34	48 37	58 32	56 36	57 31	59 38	58 36	63 36	67 40	65 39	56 40	56 39	54 32	57 33	54 33	58 37	64 41	63 37	47 40	44 32	52 34	49 35	51 35	59 40	59 43	48 33	48 31	64 32	56 30	62 35	56.4 35.7			
SAN LUIS DAM	MAX MIN	55 44	55 45	58 47	61 46	53 44	60 38	62 39	63 44	65 43	70 47	69 50	70 52	60 45	54 42	60 45	60 43	60 38	63 44	59 51	61 41	58 48	65 49	66 49	66 44	71 54	67 48	60 48	66 41	68 49	64 46	64 44	62.4 45.4		
SONORA R S	MAX MIN	60 42	54 33	59 39	55 35	55 37			66 35	70 38	67 38	69 36	68 36			55 38	61 40	63 42	61 42	51 34															64
SO ENTRANCE YOSEMITE	MAX MIN	42 29	37 31	37 27	42 30	42 30	50 30	45 30	45 30	54 29	57 30	54 29	55 29	55 28	35 24	47 24	51 27	53 28	58 29	52 29	38 28	34 29	45 32	49 36	53 28	59 32	49 29	38 25	48 25	50 25	46 28	47 28	47.2 28.8		
STOCKTON WSO AP	MAX MIN	57 40	63 45	62 44	53 44	65 42	64 39	66 42	69 40	73 40	74 45	66 46	66 44	58 43	62 45	57 44	65 38	67 44	61 44	63 50	60 38	67 49	69 46	68 43	71 40	67 49	64 41	71 44	68 49	67 43	68 39	68 37	65.5 42.5		
STOCKTON FIRE STA 4	MAX MIN	55 44	57 47	64 45	61 47	52 41	65 35	63 45	65 45	68 41	73 45	71 47	76 45	63 43	58 43	62 45	55 41	64 37	66 35	59 49	60 40	59 42	66 44	58 42	68 44	68 44	64 53	64 44	71 44	74 49	67 43	67 42	64.1 43.4		
TEHACHAPI	MAX MIN	42 34	49 30	48 35	52 30	43 30	47 32	50 32	59 32	52 36	57 42	61 33	55 33	55 30	60 40	52 36	66 41	68 37	60 38	59 44	48 33	57 30	53 44	52 38	63 40	56 34	56 31	54 31	64 31	56 29	56 29	55.5 34.3			
TEJON RANCHO	MAX MIN	58 46	59 38	63 42	56 35	63 40	62 42	61 47	64 45	65 46	68 47	74 47	69 45	65 43	58 44	61 35	66 36	66 42	73 44	69 48	60 43	69 44	65 48	69 44	69 42	75 48	65 49	55 48	67 45	68 49	69 44	66 41	64.9 43.6		
THREE RVRS EDISON PH 1	MAX MIN	60 37	62 38	60 39	60 39	60 36	58 42	60 48	68 44	71 42	70 44	75 43	70 44	55 44	64 44	72 37	65 44	72 40	62 45	62 40	62 40	62 40	68 41	62 42	68 46	68 46	65 45	64 42	71 44	71 46	68 42	65.5 42.3			
TIGER CREEK P H	MAX MIN	54 37	52 40	55 32	55 42	60 34	61 31	58 37	62 36	67 36	66 33	65 35	57 33	52 36	54 34	59 33	61 31	59 36	53 44	47 34	51 38	54 43	62 35	64 35	63 43	51 46	51 46	63 43	51 43	67 39	66 31	58.6 36.3			
TRACY CARBONA	MAX MIN	57 43	57 46	59 43	59 45	53 43	62 37	64 37	66 44	67 43	71 44	71 43	73 45	65 44	57 42	61 45	64 42	61 44	63 42	58 43	61 38	58 44	66 44	66 41	66 41	70 46	64 41	61 46	69 43	73 49	67 39	65.4 42.6			
TRACY PUMPING PLANT	MAX MIN	57 43	59 45	60 47	55 47	63 43	64 44	65 45	66 44	71 49	72 47	70 50	65 44	57 44	55 41	63 42	64 42	60 41	60 48	59 49	52 38	65 48	65 44	67 41	70 53	63 44	62 46	67 41	72 46	64 41	65 39	63.7 44.7			
VISALIA	MAX MIN	61 45	52 39	64 44	63 43	65 43	52 37	65 43	65 45	70 43	71 48	72 45	73 45	53 43	59 41	63 50	63 45	67 55	62 44	62 44	62 50	66 44	68 45	67 45	70 55	70 45	60 48	60 48	71 44	73 49	65 43	65.0 47.1			
HASCO	MAX MIN	55 47	65 39	64 47	68 42	62 42	67 44	67 48	68 43	71 45	73 47	74 46	74 47	65 32	61 39	67 42	65 41	68 47	76 43	74 51	66 40	72 40	68 49	69 42	73 47	79 51	69 46	63 45	73 43	74 46	71 44	72 42	68.8 45.0		
YOSEMITE PARK HEADQTRS	MAX MIN																																		
SOUTH COAST DRAINAGE 06																																			
ALPINE	MAX MIN	53 48	59 49	61 39	60 47	55 41	57 41	62 44	71 41	75 45	75 46	70 45	67 50	59 44	64 43	73 41	72 45	72 49	74 43	70 47	62 47	66 39	72 44	73 46	84 48	76 49	70 47	60 40	65 40	64 46	68 48	72 44	67.1 44.7		
AVALON PLEASURE PIER	MAX MIN	68 54	60 52	66 46	68 51	60 51	60 56	66 54	70 46	72 54	72 58	70 53	72 56	69 58	68 55	72 50	71 51	70 53	65 50	64 54	66 50	62 50	69 55	63 50	64 50	66 55	66 50	66 52	64 48	62 56	62 48	64 47	66.2 52.2		
BIG BEAR LAKE	MAX MIN	34 21	39 25	43 18	41 28	35 26	45 24	40 20	42 20	46 22	51 21	49 25	47 25	46 25	56 18	58 18	53 25	44 26	46 21	53 31	44 27	46 22	52 28	55 20	56 21	59 29	52 24	37 23	48 22	57 26	54 27	54 21	48.5 23.2		
BURBANK VALLEY PMP PLT	MAX MIN	62 49	63 45	70 42	62 49	53 46	59 46	67 49	71 40	81 43	77 46	70 54	75 42	65 49	70 40	77 42	78 45	76 47	73 42	68 53	65 45	64 45	71 52	78 46	81 45	75 52	72 46	74 49	70 43	74 44	72 47	78 43	70.5 46.4		

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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		
CORONA	MAX 59	62	66	66	60	62	67	77	80	79	76	70	64	68	76	75	73	73	67	64	66	71	75	78	76	70	67	68	65	70	76	69.9	
	MIN 43	40	36	47	45	40	45	39	40	46	40	47	46	36	38	40	40	41	47	46	42	46	51	43	43	46	36	36	49	48	40	42.6	
CULVER CITY	MAX 62	64				64		74	77	77	73		64		70				69	62	64		70	70	74		71	70	70	76	66.9		
	MIN 51	49				49		48	51	56	55		51	41					56	55	52		51	51	53		58	52	54	50	42.6		
CUYAMACA	MAX 52	42	46	44	40	35	39	47	52	58	60	60	56	43	50	57	59	62	65	56	44	52	58	64	68	65	39	41	48	50	56	51.9	
	MIN 37	33	31	34	32	34	34	32	34	29	30	32	36	32	30	33	34	37	40	36	32	36	29	40	47	47	37	28	34	36	36	33.7	
DRY CANYON RESERVOIR	MAX 50	56	58	65	50	51	59	61	67	70	72	75	68	65	61	71	68	65	64	57	58	61	70	73	78	71	55	59	64	69	68	63.8	
	MIN 43	41	34	35	40	40	38	34	37	34	35	33	33	33	31	34	33	33	34	34	37	34	35	38	34	35	38	38	41	48	48	35.6	
EL CAJON	MAX 65	65	66	64	64	63	66	75	77	78	75		64	66	73	73	75	75	69	69	70	73	72	78	79	70	65	68	65	68	73	70.1	
	MIN 53	49	40	52	47	47	46	42	41	44	43		49	48	41	47	45	48	50	53	43	47	56	49	49	56	47	43	52	50	48	47.5	
EL CAPITAN DAM	MAX 65	56	64	65	60	51	61	65	75	79	78	72	68	61	67	76	74	75	75	68	66	69	75	75	79	76	59	52	67	63	68	68.1	
	MIN 47	46	42	48	45	43	45	43	46	46	47	51	44	43	42	46	45	45	46	48	43	45	50	48	48	52	43	48	44	48	44	46.0	
ELSINORE	MAX 57	58	67	60	55	54	65	72	77	77		67			76	77	74	74	70		68	72	78	82	79	70	69	69	70	71	74	69.7	
	MIN 47	43	37	47	45	46	49	38	39		49	49			38			43	48		39	44	52	48	47	52	36	40	49	49	45	44.6	
ESCONDIDO 2	MAX 56	60	64	63	59	65	67	75	76	75	73	73	63	68	70	72	72	74	71	65	65	71	71	77	75	70	65	69	64	69	73	68.7	
	MIN 48	47	38	52	45	45	44	41	42	42	42	51	48	46	40	45	43	42	50	50	41	45	53	46	48	51	44	42	48	51	44	45.6	
FONTANA KAISER	MAX 54	57	61	59	53	55	60	69	76	75	72	67	59	62	72	70	70	70	64	59	64	64	72	76	75	66	60	64	60	66	77	65.4	
	MIN 37	33	29	37	33	31	38	35	31	32	33	37	42	44	41	49	46	44	49	46	44	48	52	44	46	51	40	39	50	50	41	44.8	
HENSHAW DAM	MAX 55	49	56	55	49	44	52	58	62	69	69	68	62	51	58	66	66	67	70	64	55	60	66	70	74	71	49	53	59	54	63	60.1	
	MIN 33	42	33	32	37	38	38	35	31	32	33	37	43	38	32	35	34	36	40	43	29	36	38	41	39	44	32	34	33	44	37	36.4	
IDYLLWILD FIRE DEPT	MAX 57	62	65	62	58	63	66	74	75	60	58	58	48	50	59	61	63	63	59	45	54	59	63	68	66	58	40	49	54	58	64	53.7	
	MIN 32	32	29	32	32	26	30	26	31	30	31	29	27	25	26	30	29	31	37	32	31	30	29	33	37	30	23	27	29	32	29	29.9	
JULIAN WYNOLA	MAX 45	52	53	45	45	45	52	58	64	69	65	59	64	65	66	65	65	66	60	51	58	64	69	74	69	55	49	59	69	69	57.8		
	MIN 40	36	29	40	33	32	39	35	32	39	35	32	34	34	36	35	32	34	40	39	31	35	35	38	40	38	37	29	38	39	38	35.4	
LAGUNA BEACH	MAX 77	70	64	63	62	62	65	70	71	72	71	67	67	67	70	68	67	66	66	72	72	68	68	68	68	67	64	64	67	66	68	67.6	
	MIN 43	47	42	49	48	48	48	43	43	43	42	41	49	44	42	42	41	40	41	47	47	40	54	48	40	48	49	48	40	42	48	44	44.9
LA MESA	MAX 68	65	66	62	58	63	66	74	75	64	75	73	63	65	72	72	74	74	69	67	68	74	73	76	74	69	64	69	66	69	71	69.3	
	MIN 52	48	42	50	47	45	47	45	48	52	47	52	50	48	44	48	48	46	51	52	44	49	47	50	49	54	45	45	50	50	46	48.1	
LOMPOC	MAX 67	63	64	59	54	63	65	71	75	73	72	66	58	62	65	74	70	69	65	62	63	65	68	70	67	63	62	65	63	64	66	65.6	
	MIN 48	44	41	46	41	40	42	41	43	42	41	45	43	38	41	44	41	41	51	43	49	49	44	47	47	44	48	41	46	51	51	44.1	
LONG BEACH HSO AP	MAX 62	62	64	62	59	60	65	74	78	74	67	66	62	65	72	73	68	68	63	64	64	70	72	71	71	63	67	65	65	68	71	66.9	
	MIN 49	49	44	51	51	51	50	45	47	48	57	56	49	46	46	48	50	51	56	52	49	52	56	54	55	53	46	49	52	53	49	50.3	
LOS ANGELES HSO AP	MAX 52	61	64	62	56	60	63	68	72	74	68	64	61	65	65	69	67	65	61	61	63	65	65	69	67	61	62	64	62	63	65	64.3	
	MIN 52	50	46	52	50	50	53	49	50	50	55	56	52	48	49	51	52	56	56	52	52	54	53	54	54	52	48	50	55	54	51	51.8	
LOS ANGELES CIVIC CTR	MAX 64	61	71	64	59	64	67	75	80	81	75	70	66	68	74	75	73	73	64	64	65	72	74	77	73	65	71	70	65	70	75	69.8	
	MIN 52	47	48	55	52	53	57	53	55	57	57	59	53	49	53	55	54	57	57	55	51	57	59	56	58	55	50	50	55	55	55	54.2	
MONTEBELLO	MAX 63	61	69	66	59	62	66	80	80	80	79	73	68	68	75	76	74	73	69	64	68	75	77	79	75	72	72	70	70	71	71.2		
	MIN 47	40	42	45	46	47	45	47	46	48	47	47	48	49	47	46	46	47	53	44	48	46	55	49	47	45	44	43	48	49	46.7		
MT WILSON 2	MAX 36	39	46	41	34	40	40	52	55	58	56	55	43	46	55	58	62	63	53	40	41	53	62	66	64	60	46	53	62	59	58	51.5	
	MIN 31	29	30	31	28	29	30	34	38	39	42	38	30	28	36	40	43	44	36	27	29	37	38	48	50	28	27	32	37	34	40	34.9	
NEW CUYAMA FIRE STA	MAX 54	58	58	56	49	58	59	60	65	64	68	65	62	56	65	77	68	72	61	65	61	65	68	66	65	60	55	66	68	69	69	62.9	
	MIN 44	45	46	48	34	34	46	38	46	48	48	36	29	30	33	45	46	31	49	51	48	45	44	40	39	40	42	35	32	36	32	40.5	
NEWPORT BEACH HARBOR	MAX 61	60	64	63	59	61	65	66	68	69	67	64	63	63	65	66	64	62	64	64	65	65	65	69	64	68	65	70	63	67	64.7		
	MIN 53	52	47	56	49	45	55	46	49	50	54	54	57	47	46	56	54	51	56	51	49	54	53	54	54	48	45	50	56	54	48	51.9	
OAK GROVE RANGER STN	MAX 54	52	55	57		57	56	64	69	72		71	62	69	71	71	70	71	60	60	66	72	73	76	73	67	60	61	62	74	65.2		
	MIN 42	36	32	31		36	35	33	34	35		35	33	33	37	35	35	44	40	30	36	38	38	41	43	39	30	40	30	38	35.7		
OCEANSIDE MARINA	MAX 70	61	63	70	61	61	69	68	71	72	66	64	65	64	65	80	66	64	64	62	63	80	81	64	65	64	63	62	66	75	66.9		
	MIN 54	49	44	55	48	47	48	45	46	45	45	53	51	46	44	48	49	48	57	52	44	44	48	52	52	56	43	45	45	51	48	48.5	
OJAI	MAX 57	61	65	66	55	58	64	72	76	71		71	61	63	68	74	70	69	62	62	61	65	78	78	76	70	67	66	60	72	66.4		
	MIN 45	44	35	44	40	39	45	35	45	41	42		38	33	36	40	38	37	45	38	41</												

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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		
SANTA ANA FIRE STATION	MAX 52	62	66	62	61	64	67	78	79	77	73	68	63	67	75	71	72	72	65	65	66	72	72	74	70	68	65	67	65	67	71	68.5	
	MIN 49	49	45	53	49	49	53	46	47	49	50	54	51	41	41	49	50	51	55	50	47	51	57	50	51	56	45	47	50	49	49.7		
SANTA BARBARA	MAX 50	57	63	63	68	59	62	65	70	77	70	65	64	61	62	66	68	66	65	57	62	58	65	70	63	70	75	69	65	62	63	64.8	
	MIN 49	49	46	51	45	47	47	45	48	47	50	54	55	42	43	49	48	51	54	48	47	50	48	48	47	45	40	49	50	44	45	48.1	
SANTA BARBARA FAA AP	MAX 60	60	69	58	58	60	62	65	72	73	63	63	60	60	63	67	64	61	57	60	57	64	71	71	70	62	67	60	61	61	64	63.3	
	MIN 51	49	43	47	44	42	45	43	44	53	48	47	44	38	43	44	45	45	50	41	51	52	46	47	48	49	46	46	46	40	42	45.8	
SANTA MARIA WSO AP	MAX 61	63	61	59	54	58	63	70	76	69	67	62	58	60	63	71	69	66	57	62	63	48	44	47	48	44	47	41	43	39	37	63.4	
	MIN 49	44	42	44	41	41	44	39	41	44	41	48	42	37	39	45	39	39	48	42	50	48	44	47	52	42	36	41	43	39	37	42.8	
SANTA MONICA PIER	MAX 61	63	66	65	62	61	65	76	81	79	73	69	64	66	71	71	72	69	61	63	61	68	74	75	73	69	70	66	69	68	74	68.5	
	MIN 49	42	41	52	44	44	48	49	48	45	51	49	49	39	45	46	48	45	50	44	45	52	48	46	47	47	42	48	45	43	46.2		
SANTA PAULA	MAX 61	63	66	65	62	61	65	76	81	79	73	69	64	66	71	71	72	69	61	63	61	68	74	75	73	69	70	66	69	68	74	68.5	
	MIN 49	42	41	52	44	44	48	49	48	45	51	49	49	39	45	46	48	45	50	44	45	52	48	46	47	47	42	48	45	43	46.2		
SUN CITY	MAX 62	62	67	64	59	60	65	70	74	77	76	68	65	66	67	73	72	69	68	62	65	68	69	72	70	68	64	65	65	63	70	67.3	
	MIN 52	50	46	52	49	50	54	47	49	51	50	54	55	44	47	48	49	51	53	52	55	52	52	51	51	51	47	49	51	49	48	50.3	
TORRANCE	MAX 51	58	65	53	48	51	60	69	74	76	73	64	59	66	71	74	72	69	59	60	57	66	74	79	73	73	65	66	67	70	76	65.7	
	MIN 45	42	39	46	41	42	46	40	45	47	46	49	43	38	42	45	45	43	49	42	41	46	47	46	48	46	38	40	47	44	48	43.8	
TUJUNGA	MAX 60	60	66	60	66	61	64	75	78	78	73	68	64	69	78	72	74	72	63	64	67	72	73	74	71	63	65	68	64	69	74	68.5	
	MIN 49	44	42	42	48	47	49	50	42	43	43	46	49	49	52	41	44	45	46	49	47	45	47	48	48	50	38	40	52	41	43	45.6	
TUSTIN IRVINE RANCH	MAX 60	60	66	60	66	61	64	75	78	78	73	68	64	69	78	72	74	72	63	64	67	72	73	74	71	63	65	68	64	69	74	68.5	
	MIN 49	44	42	42	48	47	49	50	42	43	43	46	49	49	52	41	44	45	46	49	47	45	47	48	48	50	38	40	52	41	43	45.6	
TWITCHELL DAM	MAX 60	62	63	60	52	59	68	71	77	76	72	61	57	59	63	69	72	64	62	61	62	65	70	72	65	60	67	62	62	66	65	64.5	
	MIN 47	44	43	47	37	38	43	42	46	41	42	49	41	42	35	41	42	38	51	42	48	53	46	50	49	47	47	40	50	42	44	45.0	
U C L A	MAX 59	60	64	61	57	57	62	70	74	74	70	64	62	63	68	68	66	65	61	59	61	64	68	69	66	62	63	63	60	62	66	64.1	
	MIN 49	47	46	53	47	47	51	50	53	62	52	53	49	46	50	51	50	52	53	48	48	52	51	51	52	51	51	48	51	50	50	50.3	
VISTA 2 NNE	MAX 58	61	62	62	59	62	65	73	74	75	71	67	63	66	72	70	71	70	65	64	65	72	70	74	70	67	62	66	62	67	69	66.9	
	MIN 52	49	45	51	46	46	46	43	45	46	45	50	47	46	48	46	45	45	50	50	42	46	52	47	48	52	44	48	48	47	47	47.0	
YORBA LINDA	MAX 62	65	66	60	60	67	75	80	79	74	70	64	69	77	73	74	73	63	65	68	73	75	77	72	65	67	69	64	70	75	70	70.0	
	MIN 45	46	45	50	41	43	43	45	52	48	42	43	44	43	44	44	43	44	50	48	44	48	55	47	47	51	39	42	46	52	44	46.0	
SOUTHEAST DESERT BASINS	MAX 77	54	65	70	64	61	68	74	78	78	77	80	73	78	83	76	78	75	72	75	82	84	84	92	71	73	86	76	75	75.1	75.1		
	MIN 42	38	43	47	46	42	41	46	42	50	47	50	40	49	48	47	42	50	44	49	50	49	49	51	41	46	49	41	42	45.6	45.6		
BAKER	MAX 52	58	62	61	55	58	60	58	71	70	71	70	69	63	69	71	72	75	69	61	68	72	78	78	78	70	63	70	69	75	75	67.5	
	MIN 36	37	37	40	42	40	41	37	37	43	46	45	41	43	39	46	42	44	51	44	41	45	44	42	48	46	41	40	36	42	39	41.8	
BARSTON FIRE STN	MAX 47	55	55	55	49	49	60	65	70	73	70	60	57	60	69	71	70	73	67	58	60	67	71	78	74	71	56	36	56	66	75	63.5	
	MIN 43	40	39	44	41	38	44	41	40	39	40	46	43	38	36	40	40	38	46	42	39	45	44	42	45	36	34	42	43	38	40.9		
BEAUMONT 1 E	MAX 45	42	58	55	54	62	58	62	65	68	63	61	42	60	63	69	69	66	55	55	61	67	68	71	70	54	50	67	73	62	66	60.7	
	MIN 35	31	31	28	35	34	31	34	31	29	28	34	31	31	29	32	26	28	39	33	24	30	33	30	35	36	35	37	33	34	26	31.7	
BISHOP WSO AP	MAX 69	69	70	73	66	66	71	73	79	81	81	80	80	71	77	81	80	82	81	74	78	82	86	88	92	75	72	78	81	82	83	77.5	
	MIN 50	43	43	44	42	40	40	40	46	45	51	51	55	41	41	46	47	46	52	52	45	45	52	52	53	52	56	47	46	51	52	46	47.2
BLYTE	MAX 71	69	73	75	65	66	71	76	81	83	81	82	74	73	80	83	84	83	83	77	80	84	88	91	96	78	73	82	84	85	86	79.3	
	MIN 54	48	48	47	52	44	46	48	54	52	54	56	49	44	47	51	51	51	57	59	47	55	58	61	56	56	54	49	58	57	54	52.2	
BLYTE FAA AIRPORT	MAX 70	53	64	68	65	57	63	68	72	79	82	79	80	69	73	75	82	82	82	79	69	78	83	85	88	89	66	63	75	80	80	74.1	
	MIN 43	44	41	48	48	47	44	44	50	55	50	57	48	43	46	49	49	49	54	55	45	50	49	53	56	60	42	44	40	49	51	48.5	
BORREGO DESERT PARK	MAX 74	61	67	72	72	62	67	71	76	81	82	82	81	74	74	78	82	84	84	81	72	80	82	87	89	89	75	71	79	79	80	77.0	
	MIN 48	43	42	48	49	41	41	46	50	52	45	51	51	44	41	46	47	46	51	54	47	48	46	52	52	61	46	46	46	48	46	47.5	
BRAWLEY 2 SW	MAX 57	60	68	68	54	60	63	68	73	76	72	74	63	68	73	78	74	79	68	64	72	77	78	81	84	62	68	74	81	72	79	70.6	
	MIN 41	38	41	41	43	43	42	42	43	44	43	52	47	39	42	48	45	43	50	48	45	49	47	46	47	47	47	53	47	48	43	44.9	
DAGGETT FAA AIRPORT	MAX 72	66	74	74	72	68	71	78	84	86	84	84	80	75	80	85	85	82	80	77	78	84	85	91	92	87	74	85	88	88	82	80.3	
	MIN 47	47	50	52	55	50	54	50	53	56	55	58	60	43	53	61	62	58	60	61	54	54	58	60	57	59	51	56	60	60	58	55.2	
DEATH VALLEY	MAX 40	40	52	44	42	52	50	57	59	60	56	55	47	52	53	63	56	56	51	50	54	59	63	63	68	55	45						

# DAILY TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	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				
LAKE ARROWHEAD	MAX	36	36	45	39	46	39	42	50	60	55	55	53	48	46	54	55	58	57	49	40	49	52	55	65	62	50	42	51	61	56	59	50.5		
	MIN	31	31	30	34	32	30	32	28	30	30	31	30	27	25	28	32	29	30	30	32	30	32	34	33	35	29	25	29	31	31	30	30.4		
LANCASTER FSS/FAA	MAX	52	56	62	53	47	56	59	64	67	71	66	66	53	62	65	66	69	72	58	56	61	65	68	75	73	56	56	65	67	62	71	62.5		
	MIN	41	40	35	45	40	40	43	35	35	38	37	42	41	33	32	46	37	41	46	43	43	44	39	39	41	41	41	42	37	47	37	30	39.7	
MECCA FIRE STATION	MAX	66	69	75	74	69	68	71	79	84	88	83	84	80	75	79	83	84	83	80	76	85	80	89	93	90	88	76	79	80	84	84	79.9		
	MIN	47	40	45	45	51	47	44	45	50	52	47	57	55	44	44	49	51	52	54	57	52	47	58	56	56	65	43	46	48	55	47	50.0		
MITCHELL CAVERNS	MAX	50	46	49	54	47	42	52	56	59	63	61	62	58	54	60	64	64	63	60	57	60	63	68	71	70	68	35	66	64	64	59.1			
	MIN	36	32	31	40	32	32	34	38	40	40	41	42	35	36	39	45	44	42	50	39	35	46	48	51	50	41	38	35	45	40	41	39.9		
MOJAVE	MAX	47	56	60	58	48	60	64	63	67	70	65	70	64	65	66	65	70	72	67	55	65	66	68	75	72	64	54	64	68	64	71	64.0		
	MIN	40	35	42	38	38	37	41	36	40	52	43	40	41	35	35	48	40	42	48	38	40	49	47	44	44	33	37	40	46	41	35	40.8		
MOUNTAIN PASS	MAX	57	42	47	49	54	40	42	49	55	59	63	58	58	45	54	62	61	63	63	60	49	59	62	65	70	72	46	52	57	64	58	56.0		
	MIN	32	34	34	35	34	33	33	31	34	36	34	35	37	31	31	33	38	36	41	36	33	36	38	40	43	43	28	33	37	39	35	35.3		
NEEDLES FAA AIRPORT	MAX	71	65	65	68	67	58	67	71	76	79	77	78	76	69	75	80	79	78	80	77	76	81	84	85	88	87	68	76	80	79	80	75.5		
	MIN	53	48	48	47	49	45	46	44	54	55	53	52	57	42	45	53	52	50	59	54	48	53	55	57	55	62	50	52	53	58	49	51.5		
PALMDALE	MAX	51	58	65	60	51	59	65	64	68	71	70	69	59	64	65	71	70	73	64	59	63	67	71	75	73	65	57	67	69	65	73	65.2		
	MIN	38	35	32	42	35	37	41	33	34	35	35	39	41	29	31	36	33	41	44	40	40	42	35	34	40	37	38	33	43	33	30	36.6		
PALM SPRINGS	MAX	61	68	73	66	64	63	69	78	82	85	80	81	74	75	78	84	84	82	79	75	80	85	87	92	90	82	72	78	77	82	84	77.7		
	MIN	47	43	44	52	49	50	43	41	51	53	54	53	51	44	45	53	54	52	56	53	47	52	58	53	60	50	44	47	52	51	51	50.1		
PARKER RESERVOIR	MAX	69	67	66	70	58	61	67	72	78	80	77	78	71	70	77	80	76	82	82	72	76	81	85	88	90	77	68	76	78	78	82	75.2		
	MIN	48	48	48	50	43	44	47	48	55	58	54	58	46	48	55	55	52	59	56	51	55	58	60	62	63	48	51	53	57	54	58	53.0		
RANOSBURG	MAX	46	52	58	51	44	53	51	59	62	67	64	65	58	60	64	66	67	68	65	52	62	65	68	73	70	69	58	65	70	69	68	61.6		
	MIN	38	36	35	39	36	35	36	39	42	44	46	43	42	33	41	48	42	44	42	39	40	42	46	45	47	42	42	39	42	43	41	40.9		
THERMAL FAA AP	MAX	57	69	74	72	63	64	70	79	82	85	82	83	74	75	79	83	84	81	81	75	79	83	86	92	94	70	72	79	80	82	83	77.8		
	MIN	46	41	46	46	48	46	42	44	48	52	45	58	51	43	42	48	57	58	53	56	49	58	59	59	58	49	44	50	51	52	47	49.9		
TRONA	MAX				65	56				72	74		74		72		75	76	72		75	66	66		70	76	78	75	77	75	74	68	72	70	71.7
	MIN				37	42				43	45		50		47		54	56	46		45	46	43		45	43	45	48	46	48	47	45	48	46	46.1
TWENTYNINE PALMS	MAX	62	60	64	65	61	55	61	70	74	75	73	73	72	67	75	78	77	79	78	71	74	78	78	83	87	82	63	73	80	80	79	72.5		
	MIN	43	35	42	38	42	38	40	38	43	45	44	44	43	40	38	46	46	44	54	50	41	47	49	55	49	48	39	40	44	47	40	43.6		
VALYERMO FIRE STN 79	MAX	48	51	59	59	58	55	54	60	64	68	65	62	57	60	63	69	68	71	60	55	62	66	67	73	73	66	55	63	70	63	71	62.4		
	MIN	37	32	30	30	33	34	33	31	33	31	34	33	34	26	33	34	31	36	42	20	32	37	33	32	40	33	33	31	35	31	28	32.6		
VICTORVILLE PUMP PLANT	MAX	56	49	55	61	55	45	56	57	64	67	70	69	69	63	64	69	72	72	75	60	58	65	71	72	78	74	54	60	69	75	67	63.9		
	MIN	42	39	35	43	41	37	39	33	33	34	38	40	41	30	34	38	37	39	50	41	38	39	38	36	43	44	36	34	45	38	33	38.3		
WILDROSE RANGER STA	MAX	42	50	55	48	50	44	52	59	59	63	70	66	49	54	58	63	61	62	54	55	58	62	65	68	70	60	59	65	68	63	61	58.5		
	MIN	34	28	32	30	36	34	32	32	31	36	36	34	32	28	29	35	36	33	46	31	28	36	38	36	41	42	36	34	38	37	33	34.3		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY SOIL TEMPERATURES

CALIFORNIA  
MARCH 1981

STATION	DEPTH	TIME	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 2 SW	(CM)	10	MAX 58	60	62	63	62	61	62	62	63	63	65	66	65	65	66	66	67	67	66	66	68	68	69	70	70	67	66	68	69	70	65.4		
		MIN	56	57	58	59	57	57	58	58	58	58	60	61	59	58	60	60	60	61	61	62	62	63	63	63	63	60	62	61	62	62	59.8		
		20	MAX	58	59	60	60	59	60	60	61	61	62	62	62	62	63	62	63	62	62	63	64	64	66	66	65	64	65	66	66	66	62.4		
		MIN	57	57	57	58	58	57	57	58	58	59	59	60	60	59	59	60	60	60	60	61	60	61	62	63	63	64	62	62	63	63	60.0		
DAVIS 2 WSH EXP FARM	(IN)	4	MAX	55	57	61	60	54	60	66	65	68	71	71	72	68	67	66	56	63	64	57	60	56	60	67	71	69	64	69	70	75	73	70	64.7
		MIN	50	50	48	48	46	46	49	52	52	53	54	55	55	56	56	56	50	50	50	53	48	49	49	52	52	54	53	52	53	54	52	54	51.6
		8	MAX	48	49	51	50	48	50	54	54	57	59	59	60	58	57	56	51	51	52	54	50	52	49	51	56	58	58	56	58	62	61	60	54.7
		MIN	46	46	46	44	44	43	45	47	48	50	50	51	52	51	51	46	46	46	47	49	48	46	47	48	49	50	50	50	50	51	52	52	48.2
FRESNO WSO AP	(IN)	20	BAM	52	52	52	51	52	51	51	52	53	53	54	55	56	56	56	55	54	54	54	54	54	53	53	54	55	56	56	56	57	57	54.0	
		MAX	53	64	63	64	50	65	70	75	77	79	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		4	MAX	51	55	55	55	50	56	59	64	65	66	68	-	55	59	61	61	70	66	57	62	61	64	66	74	63	62	70	76	75	73	77	63.2
		MIN	48	46	46	47	46	46	47	52	52	54	55	55	50	50	46	45	50	46	48	49	46	48	48	47	48	51	50	48	47	52	48	47	48.6
		8	MAX	52	54	54	54	52	54	56	59	61	63	64	-	55	55	57	61	63	61	59	57	57	61	61	64	64	59	62	66	66	65	67	59.4
		MIN	50	49	49	50	49	48	50	54	54	55	57	-	54	50	49	52	51	54	53	50	53	54	53	52	55	54	52	52	55	54	54	54	52.2
		20	BAM	56	56	56	56	56	55	55	56	58	59	59	60	64	61	60	59	60	60	59	58	59	59	59	61	61	61	60	61	62	63	63	59.1
		MAX	55	55	55	55	54	54	54	54	55	55	55	56	59	59	58	55	58	58	58	57	57	57	57	57	58	58	58	58	59	59	59	59	56.7
INDIO U S DATE GARDEN	(CM)	10	MAX	75	62	70	71	75	66	69	72	76	80	84	84	83	78	83	85	86	87	88	80	86	86	90	92	93	93	85	84	88	90	90	81.7
		MIN	60	56	56	58	60	59	57	57	58	60	62	63	65	65	62	62	63	64	78	69	67	66	65	68	71	72	73	66	66	67	70	70	64.2
		20	MAX	68	63	64	65	67	63	63	65	67	70	73	73	73	69	72	73	74	76	76	73	69	75	78	80	81	81	77	70	77	78	78	72.0
		MIN	63	59	58	60	62	60	59	59	60	62	64	65	67	64	64	65	64	64	69	70	69	68	67	70	72	73	76	70	60	70	71	71	65.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

CALIFORNIA  
MARCH 1981

STATION	DAY OF MONTH																															TOTAL OR AVG.				
	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					
<b>1 1 1</b> NORTH COAST DRAINAGE 01																																				
TRINITY RIVER HATCH	EVAP	.03	.04	.07	.05	.00	.13	.10	.01	.09	.12	.10	.12	.09	.09	.04	.01	.10	.07	.00	.07	.04	.02	.10	.07	.00	.05	.12	.17	.12	.18	.11	2.31			
	WIND	12	16	2	18	16	36	6	11	4	11	4	12	12	16	18	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	11.6				
	MAX	48	56	63	58	49	60	62	54	67	43	42	45	44	42	46	45	46	43	40	45	54	52	64	63	48	63	65	69	74	60.2					
	MIN	30	40	42	41	38	32	37	43	42	45	44	42	45	44	42	43	41	40	40	45	39	45	44	45	45	41	44	41	42	41.2					
WILLOW CREEK 1 NW	EVAP	-	-	-	.10	-	-	-	.05	-	.06	.00	.11	.01	-	-	-	-	-	-	-	-	-	.00	.01	-	-	.00	-	.00	-					
	WIND	10	2	9	4	8	4	4	2	9	8	7	3	9	2	30	5	7	1	5	9	15	8	10	2	6	4	3	17	7	8					
	MAX	68	71	75	70	69	71	72	70	76	78	76	83	78	70	75	63	78	74	73	75	75	60	75	74	71	66	65	70	72	75					
	MIN	28	30	30	33	25	25	27	32	30	30	32	33	32	35	35	31	28	28	32	31	30	45	32	32	33	31	28	41	45	31	31.8				
<b>2 2 2</b> SACRAMENTO DRAINAGE 02																																				
AUBURN DAM PROJECT	EVAP	.03	.11	.09	.03	.31	.15	.05	.06	.05	.20	.05	.16	.22	.04	.03	.02	.15	.15	-	.21	.07	.01	.10	.15	.15	.10	-	.18	.17	.15	.29	3.838			
	WIND	34	29	17	30	25	43	19	31	35	40	32	48	40	17	20	22	47	28	24	21	52	20	22	35	55	28	38	58	.17	.15	.29	1039			
	MAX	51	60	55	56	58	65	60	65	68	73	71	73	72	66	55	42	43	41	40	40	50	50	56	60	72	65	55	65	71	74	62	69	62.5		
	MIN	40	42	42	42	41	41	43	44	44	44	46	45	45	44	42	43	41	40	40	45	39	45	44	45	44	45	42	41	46	41	41	42	42.8		
CHICO UNIVERSITY FARM	EVAP	-	-	.04	.15	.03	.20	.00	.03	.30	.15	.13	.15	.19	.00	-	.19	.14	-	.08	1	1	.69	.10	.13	.15	.15	.13	1	.77	.15	.4	8.838			
	WIND	130	13	34	120	92	122	74	1	70	27	54	39	112	104	55	34	53	42	89	112	222	84	1	42	77	159	126	82	1	181	43	2392			
	MAX	-	67	65	61	49	63	85	85	72	75	72	76	70	62	59	50	69	65	56	60	73	85	66	76	67	65	68	92	-	76	71	69	0	69.0	
	MIN	-	40	44	43	39	40	47	43	41	42	46	46	45	45	46	42	39	39	46	42	44	43	46	47	48	43	52	-	38	41	43	4	43.4		
DAVIS 2 HSW EXP FARM	EVAP	.02	.05	.06	.08	.03	.29	.12	.10	.10	.12	.17	.15	.14	.16	.08	-	.17	.20	.01	.04	.08	.07	.07	.13	.13	.11	.16	.34	.22	.21	.22	3.958			
	WIND	116	97	19	114	159	305	79	70	45	42	70	39	131	83	62	70	205	79	80	95	209	140	28	34	86	133	102	179	93	112	106	3182			
	MAX	51	58	62	60	50	62	67	68	73	78	75	77	68	65	63	50	65	66	54	58	54	64	72	74	72	67	70	69	74	70	70	65	6	65.6	
	MIN	43	44	41	42	36	39	42	44	46	48	47	47	44	45	46	41	38	40	48	38	42	46	46	48	50	43	40	44	49	40	42	43	5	43.5	
FOLSOM DAM	EVAP	.00	.06	.07	.06	.04	.09	.12	.13	.09	.13	.11	.20	.08	.05	.07	.00	.06	.14	.00	.00	.00	.00	.06	.13	.07	.00	.05	.11	.23	.14	.12	2.41			
	WIND	41	23	20	31	31	36	25	23	31	16	16	17	47	55	19	20	18	30	13	22	31	99	46	16	27	18	59	31	33	52	56	22	1007		
LAKE SOLANO	EVAP	.02	.04	.07	.06	.06	.23	.12	.11	.13	.16	.15	.17	.11	.09	.10	.10	.18	.19	.00	.00	.13	.09	.13	.10	.15	.10	.07	.05	.13	.20	.17	.19	3.92		
	WIND	40	63	41	63	82	111	36	54	56	70	50	42	84	38	39	41	79	76	32	57	74	88	35	48	62	123	159	95	80	156	67	2141			
	MAX	51	57	64	60	48	64	67	65	65	73	72	70	64	59	66	54	64	66	46	57	50	63	63	68	69	64	73	66	73	66	67	63	2	63.2	
	MIN	43	44	41	40	38	38	40	43	44	44	47	47	44	44	45	40	40	40	46	40	40	40	44	44	44	52	43	42	43	46	40	39	42	6	42.6
MARKLEY COVE	EVAP	.00	.06	.06	.01	.03	.10	.11	.06	.09	.18	.12	.07	.06	.06	.06	.00	.14	.14	.00	-	.00	.11	.09	.10	.07	.05	.13	.20	.17	.19	.14	.11	2.698		
	WIND	40	37	25	46	45	59	40	37	35	46	31	35	70	34	32	34	38	39	23	45	72	50	33	34	53	77	55	77	69	72	66	36	1474		
	MAX	49	55	58	50	45	60	62	56	64	68	69	51	54	51	47	63	62	46	53	46	64	57	67	63	57	64	66	72	66	66	58	7	58.7		
	MIN	40	40	44	42	34	33	36	39	41	40	41	43	41	40	40	35	35	36	41	36	36	45	38	38	41	40	37	37	44	35	36	38	8	38.8	
SHASTA DAM	EVAP	.05	.02	.13	.13	.00	.15	.01	.08	.11	.04	.18	.21	.15	.11	.03	.05	.12	.14	.00	.06	.03	.00	.07	.05	.06	.04	.17	.16	.10	.25	2.87				
	WIND	54	47	52	58	63	86	39	32	47	46	85	53	42	41	10	30	52	48	30	38	36	37	24	35	26	47	35	45	66	49	35	1388			
WHISKEYTOWN RES	EVAP	.01	.07	.08	.04	.02	.09	.13	.00	.11	.11	.11	.15	.08	.07	.00	.00	.10	.07	.00	.02	.00	.04	.17	.04	.01	.02	.07	.13	.12	.17	.13	2.16			
	WIND	13	20	28	32	26	25	29	25	29	34	25	25	22	18	25	18	23	17	12	17	32	20	16	22	17	25	29	23	25	29	24	735			
	MAX	51	58	66	63	49	60	62	55	68	70	70	73	66	67	50	47	68	62	48	54	50	48	63	63	59	63	64	74	72	71	70	61	4	61.4	
	MIN	40	40	39	42	39	40	40	45	42	41	46	44	44	44	47	45	39	38	39	43	43	41	42	42	44	44	42	43	47	40	40	42	1	42.1	
<b>3 3 3</b> SAN JOAQUIN DRAINAGE 05																																				
FRIANT GOVERNMENT CAMP	EVAP	.04	.07	.08	.07	.07	.03	.09	.07	.10	.11	.09	.17	.24	.06	.06	.11	.09	.14	.14	.13	.06	.09	.10	.15	.12	.09	.08	.13	.14	.11	3.14				
	WIND	91	84	42	43	97	69	38	27	42	41	48	38	90	53	44	53	57	51	97	100	62	87	41	54	42	74	93	72	46	53	45	1874			
	MAX	52	54	62	64	57	50	66	66	66	71	73	72	76	70	58	63	68	68	63	58	64	62	69	68	73	63	62	65	73	73	68	64	4	65.4	
	MIN	44	45	45	44	44	44	44	47	44	49	48	50	44	43	43	42	47	47	48	45	44	48	48	47	49	44	44	45	42	41	44	44	5	45.4	
LODI	EVAP	.03	.06	.03	.15	.12	.09	.08	.08	.13	.11	.14	.13	.07	.09	.05	.08	.09	.04	.11	.10	.03	.14	.11	.11	.08	.13	.20	.11	.18	.14	.18	3.19			
	WIND	27	29	1	36	123	43	3	5	3	0	16	25	33	22	41	50	15	20	27	45	137	6	10	1	42	51	97	24	37	78	16	1063			
	MAX	53	59	58	65	62	73	68	71	73	72	76	67	71	62	61	65	67	67	62	61	64	71	72	72	72	66	69	76	75	69	70	67	4	67.4	
	MIN	43	46	44	45	41	41	44	48	46	47	48	49	35	46	45	44	41	47	49	42	45	48	45	46	52	44	40	44	45	38	41	44	6	44.6	
LOS BANOS DET RESV	EVAP	.01	.02	.06	.10	.00	.09	.16	.10	.15	.14	.15	.16	.12	.09	.11	.07	.19	.15	.00	.17	.04	.11	.15	.13	.17	.21	.29	.18	.18	.28	.28	4.06			
	WIND	80	89	97	147	145	114	128	93	104	97	109	105	319	86	76	96	156	101	91	159	115	123	108	98	57	381	435	157	141	353	163	4516			
	MAX	52	53	58	62	51	62	77	76	72	75	73	74	69	58	64	61	68	68	59	64	59	61	75	73	76	67	60	78	79	76	69	66	7	66.7	
	MIN	44	47	47	45	42	40	42	45	41	48																									

EVAPORATION AND WIND

CALIFORNIA  
MARCH 1981

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	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			
* * * SOUTHEAST DESERT BASINS 07 INDIO U S DATE GARDEN	EVAP	.10	.06	.14	.15	.19	.09	.11	.13	.19	.21	.23	.24	.26	.24	.20	.22	.30	.27	.24	.21	.30	.31	.30	.35	.28	.33	.32	.24	.29	.32	.29	.29	7.11
	WIND	2	0	13	17	7	6	3	6	8	16	13	24	26	31	10	9	18	24	12	20	30	52	36	34	12	29	59	25	38	35	25	640	
	MAX	70	56	74	73	74	65	72	75	78	80	82	55	80	72	79	81	84	82	83	70	78	82	87	88	89	89	75	77	82	84	85	77.5	
	MIN	48	46	48	50	52	51	49	51	52	51	54	82	52	42	49	52	55	55	57	54	49	52	57	57	60	59	48	51	54	54	53	53.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND

CALIFORNIA  
MARCH 1981

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		
* * * NORTH COAST DRAINAGE 01																																	
LAVA BEDS NAT MONUMENT					6.1											T										2.4							
YREKA					1	1										T																T	
* * * SACRAMENTO DRAINAGE 02																																	
BLUE CANYON WSMO				5.5	.1								.6	6.3	1.1			920.6	5.9	5.9					2.3	3.2					1.8	T	
	12	10	8	6	9	7	4	3	2	1	T	T	T	T	6	5	3	7	19	24	18	14	12	9	8	10	7	2.1	2.1	1.7			
	3.6	3.2	3.2		3.5	3.4		1.6	1.2											4.3	4.7	4.7	4.2	3.6	3.4								
BOHMAN DAM				5.0	2.0							1.0	3.0			8.0			8.0	0.0	7.0				7.0					2.0			
	18	17	16	21	18	16	15	14	13	12	12	12	11	10	15	14	13	21	29	29	25	21	20	18	25	18	16	14	14	14			
BUCKHORN				9.0	2.0										1.5	2.0				1.8	*	2.0			T	2.0							
	4	2		9	5	5	3								2	2				1	-	5	3	T	2								
CANYON DAM				2.0																2.0	1.8					1.0							
	6	5	3	3	4	2	2	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T								
CHESTER					3.0										1.0					T	1.0	5.0											
JESS VALLEY				3.0	1.0																					2.5	3.0				2.0		
				3	3																					2							
LAKE SPAULDING				3.0	2.0								1.0			7.0			6.0	10.0	7.0					5.0					1.0		
	22	14	13	16	18	17	16	14	13	12	11	10	11	10	16	12	11	16	24	27	19	17	17	17	19	18	17	17	17	17	14		
MANZANITA LAKE				2.5	9.0								3.5	1.0	T	9.0			2.0	1.0	3.0	T	T		5.0	1.0			1.0	T	2		
	6	5	5	7	16	15	10	9	7	5	4	2	5	5	5	14	10	7	8	8	11	10	7	5	2	7	7	5	4	2	2		
MC CLOUD				.2	2.0															.5	.5												
	10	6	5	2	4	1														1	1												
MINERAL				3.0	3.0								1.0	T	T	6.0			5.0	2.0	7.0	T	T		3.5	2.0							
	7	5	4	7	9	7	6	5	3	2			1	1	6	3	1	1	2	7	2				4	-							
MOUNT SHASTA WSO C1				3.4	.1										.6				.2	.6	1.5										.8		
	4	2	T	1	2	T																											
	.4	.2																															
SIERRAVILLE RANGER STA													1.5								1.0										1.0		
STRAWBERRY VALLEY					4.5															5.0	8.0					T							
					4															2	6	2											
TWIN LAKES		1.0	1.0		T	T							4.0	3.0		4.0		16.0	3.0	8.0				13.0	11.0			5.0					
	50	50	50	46	46	46	44	42	40	39	38	37	40	40	44	43	46	45	44	59	57	57	55	55	54	53	67	72	68	68	68		
* * * NORTHEAST INTERIOR BASINS 03																																	
BOCA													1.0	3.0						T	T					3.0	1.0			2.0			
													1	T						T	T					3	1						
BODIE		1.5	3.5			5.0								1.0					1.5	6.0	.1	.5				T	2.0	2.0					
BRIDGEPORT																																	
CEDARVILLE					T	2.0																											
					2																												
DONNER MEMORIAL ST PK					T									7	4.0		2.0		T	4.0	6.0	1.0				7.0	2.0						
	9	9	8	8	7	7	6	6	5	4	4	4	3	3	3	3	2	2	4	4	9	9	8	8	7	7	6	5	4				
DOYLE 4 SSE													3.0														2.0						
FORT BIDWELL					.5	1.0										.5						1.0											
MONO LAKE		7.0																	5.0	3.0													
	4																		2	1													
TAHOE CITY					T	T											1.0		1.0	3.0	5.0					4.0	T				2.0		
	10	10	9	9	9	8	8	7	5	3	1	T	T			1		1	4	9	2				4	4	1				2		
TERMO				2.5	4.0	1.0	T									1.5			.2	.8	.2					.5	1.0						
				1	1	T																											
WOODFORDS																																	
* * * SAN JOAQUIN DRAINAGE 05																																	
ASH MOUNTAIN																																	
CALAVERAS BIG TREES						.8								1.5						6.4	4.7					2.4	1.6				.2		
						7								5					1	7	10				4	5	5					3	
CHERRY VALLEY DAM					.5									4.0						T	5.0	5.0				2.0	T						
	4	4	2	T	T	T	T	T	T	T	T	T	4	2	T	T	T	T	T	5	8				2	1	T	T	T	T	T		
GLENNVILLE																																	
GRANT GROVE		3.0	9.0	1.0															1.0	8.0	3.0	2.0				9.0	7.0						
	27	32	30	29	28	26	26	25	25	24	23	23	30			28	29	27	24	24	41	42	38	34	32	30	38	41	39	36	34	33	
LODGEPOLE		1.0	4.0										1.0	7.0	T				T	18.0	3.0	1.0				6.0	2.0						
	36	40	40	39	38	38	38	37	37	36	36	36	43	42	42	40	37	36	36	54	55	54				50	48	45	52	46	44	43	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# SNOWFALL AND SNOW ON GROUND

CALIFORNIA  
MARCH 1981

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
PATTIWAY	SNOWFALL SN ON GND	3.0 3				6.0 6	8.0 8																								
TEHACHAP1	SNOWFALL SN ON GND		1			.5 1	1.0 8																					3.5 1			
SOUTH COAST DRAINAGE 06																															
ANZA	SNOWFALL SN ON GND		T																												
CUYAMACA	SNOWFALL SN ON GND					.5 T	.7 T																						2.5 2		
JOYLLWILD FIRE DEPT	SNOWFALL SN ON GND	2.5 3		1																	1.0										
MT WILSON 2	SNOWFALL SN ON GND		6	8	8	7	15	16	11	8	6	3	1																		
PALOMAR MT OBSERVATORY	SNOWFALL SN ON GND					1.0																									
SANDBERG WSMO	SNOWFALL SN ON GND																														
SOUTHEAST DESERT BASINS 07																															
BENTON INSPECTION STA	SNOWFALL SN ON GND					T	T																					1.0 T	T		
BISHOP WSO AP	SNOWFALL SN ON GND	2.9 1																													
LAKE ARROWHEAD	SNOWFALL SN ON GND	4.0 6	1.5 8	6	3	4.0 7	1.0 8	6	6	3	3	2	T 2	2	.5 3													2.3			
MOUNTAIN PASS	SNOWFALL SN ON GND																														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ACTON-ESDO CYN FC261F	0014	06	LOS ANGELES		34 30	118 16	2960					LACFCO	
ADIN RANGER STATION	0029	02	MODOC		41 12	120 57	4195	4P	8A			U S FOREST SERVICE	
ALISO CN OAT MT FC 446	0115	06	LOS ANGELES		34 19	118 33	2367		8A		C	GETTY OIL CO FOR LACFCO	
ALPINE	0136	06	SAN DIEGO		32 50	116 46	1735	5P	5P			ALPINE FIRE DEPT	
ALTADENA	0144	06	LOS ANGELES		34 11	118 08	1127		5P			RUBIO CANYON L&W ASN	
ALTURAS RANGER STATION	0161	02	MODOC		41 30	120 33	4400	8A	8A			U S FOREST SERVICE	
ANGIOLA	0204	05	TULARE		35 59	119 29	205		8A			ANGIOLA ELEV & WHSE	
ANGWIN PAC UNION COL	0212	01	NAPA		38 34	122 26	1815	8A	8A			PHYSICS DEP-PAC UNION C	
ANTIOCH PUMPING PL 3	0232	05	CONTRA COSTA		37 59	121 44	60	8A	8A			CONTRA COSTA WATER DIST	
ANZA	0235	06	RIVERSIDE		33 33	116 40	3915		8A		H	STATE DIV OF FORESTRY	
APPLE VALLEY	0244	07	SAN BERDINO		34 31	117 13	2935		4P			APPLE VALLEY RANCHOS	
ARROYO SECO	0322	04	MONTEREY		36 14	121 29	900					CINDA R LARSEN	
ASH MOUNTAIN	0343	05	TULARE		36 29	118 50	1708	8A	8A		H	NATIONAL PARK SERVICE	
ATLAS ROAD BROWN	0368	01	NAPA		38 26	122 15	1680				C	FLOYD BROWN	
AUBERRY 1 NW	0379	05	FRESNO		37 05	119 30	2140	5P	5P			STANLEY TOPHAM	
AUBURN	0383	02	PLACER		38 54	121 04	1292	7A	7A			RAYMOND D MILES	
AUBURN DAM PROJECT	0385	02	PLACER		38 53	121 04	1272	8A	8A		8A	U S BUREAU RECLAMATION	
AVALON PLEASURE PIER	0395	06	LOS ANGELES		33 21	118 19	25	7A	7A			HARBORMASTER	
BADGER	0422	05	TULARE		36 38	119 01	3050					LUANA REED	
BAKER	0436	07	SAN BERDINO		35 16	116 04	940	7A	7A			C	BAKER CALTRANS
BAKERSFIELD WSO AP	R 0442	05	KERN		35 25	119 03	495	MID	MID			C HJ	NATL WEATHER SERVICE
BALCH POWER HOUSE	0449	05	FRESNO		36 55	119 05	1720	4P	4P			C	P G & E COMPANY
BARSTOW FIRE STN	0521	07	SAN BERDINO		34 54	117 01	2320	4P	4P				BARSTOW FIRE DISTRICT
BATTLE CREEK ADR	0546	02	SHASTA		40 24	122 08	420					C	COLEMAN FISH HATCHERY
BEAUMONT	0606	06	RIVERSIDE		33 56	116 58	2613					C	BEAUMONT IRRIG DIST
BEAUMONT 1 E	0609	07	RIVERSIDE		33 56	116 58	2600	4P	4P				NATL WEATHER SERVICE
BEN LOMOND 4	0673	04	SANTA CRUZ		37 05	122 05	450	5P	5P				ALBERT B STEFFENS
BENTON INSPECTION STA	0684	07	MONO		37 51	118 29	5461		MID			H	EXCLUSION & DETECTION
BERKELEY	0693	04	ALAMEDA		37 52	122 15	345	8P	MID			C	UNIVERSITY OF CALIF
BIEBER	0731	02	LASSEN		41 07	121 08	4125					C	STATE DIV OF FORESTRY
BIG BAR RANGER STATION	0738	01	TRINITY		40 45	123 15	1260	8A	8A				U S FOREST SERVICE
BIG BEAR LAKE	0741	06	SAN BERDINO		34 15	116 53	6790	4P	4P				BEAR VALLEY COMM HOSP
BIG BEAR LAKE DAM	0742	06	SAN BERDINO		34 14	116 58	6815					C	SAN BERNARDINO COUNTY
BIG PINES PARK FC 83B	0779	07	LOS ANGELES		34 23	117 41	6862		5P			C	U S FOREST SERVICE
BIG SUR STATE PARK	0790	04	MONTEREY		36 15	121 47	235		8A				STATE PARK SERVICE
BIG TUJUNGA DAM FC46DE	0798	06	LOS ANGELES		34 18	118 11	2317		8A				LACFCO
BISHOP CREEK INTAKE 2 R	0819	07	INYO		37 15	118 35	8154		MID				SO CALIF EDISON CO
BISHOP WSO AP	R 0822	07	INYO		37 22	118 22	4108	MID	MID			C HJ	NATL WEATHER SERVICE
BLACK MOUNTAIN 2 SW	0850	04	SANTA CLARA		37 18	122 10	2330		9A				MRS MARY INCERPI
BLODGETT EXP FOREST	0883	02	EL DORADO		38 55	120 40	4414					C	BLODGETT EXP FOREST
BLUE CANYON WSMO	R 0897	02	PLACER		39 17	120 42	5280	MID	MID			C HJ	NATL WEATHER SERVICE
BLYTHE	0924	07	RIVERSIDE		33 37	114 36	268	4P	8A				STATE DIV OF FORESTRY
BLYTHE 7 W	0925	07	RIVERSIDE		33 37	114 43	390					C	RIVERSIDE CO FIRE DEPT
BLYTHE FAA AIRPORT	0927	07	RIVERSIDE		33 37	114 43	390	MID	MID				DEPT-TRANSPORTATION-FAA
BOCA	0931	03	NEVADA		39 23	120 06	5575	8A	8A			8A	RONALD KIRBY
BODIE	0943	03	MONO		38 13	119 01	8370	5P	5P			H	BODIE HISTORICAL ST PK
BORON	0979	07	KERN		35 00	117 39	2455					C	KERN CO FIRE DEPT
BORREGO DESERT PARK	0983	07	SAN DIEGO		33 15	116 24	805	8A	9A				CAL DIV BEACH & PKS
BOULDER C LOCATELLI R	1005	04	SANTA CRUZ		37 09	122 12	2175					C	VINCENT D LOCATELLI
BOULEVARD 2	1010	07	SAN DIEGO		32 40	116 18	3600		6P			H	MEYER'S TRAILER RANCH
BOWMAN DAM	1018	02	NEVADA		39 27	120 39	5365	4P	4P			C H	NEVADA IRRIG DIST
BRANDY CREEK	1041	02	SHASTA		40 37	122 34	1230					C	USBR SHASTA FIELD DIV
BRAWLEY 2 SW	1048	07	IMPERIAL		32 57	115 33	-100	9A	9A			G	AGRI RESEARCH CENTER
BREA DAM	1057	06	ORANGE		33 53	117 56	275					C	U S CORPS OF ENGINEERS
BRENTWOOD 6 SW	1060	05	CONTRA COSTA		37 53	121 46	325					C	VERNON R CAKEBREAD
BRIDGEPORT	1072	03	MONO		38 15	119 14	6470	4P	4P			H	MONO CO SHERIFFS STN
BRIDGEPORT RANGER STA	1076	03	MONO		38 17	119 17	6560					C	U S FOREST SERVICE
BRIDGEVILLE 4 NNW	1080	01	HUMBOLDT		40 32	123 49	2050		8A				RUSSELL HUNT
BRIDGEVILLE 5 W	1084	01	HUMBOLDT		40 29	123 53	387					C	CALIF DEPT PARKS & REC
BROOKS FARNHAM RANCH	1112	02	YOLO		38 46	122 09	294	8A	8A				MRS JOYCE A FARNHAM
BRUSH CREEK R S	1130	02	BUTTE		39 41	121 20	3560		8A			C	U S FOREST SERVICE
BRYSON	1142	04	MONTEREY		35 48	121 06	925					C	ERNEST A WEFERLING
BUCKHORN	1149	02	SHASTA		40 52	121 51	3800		3P			H	MRS ANNA HOWE
BUCKS CREEK P H	1159	02	PLUMAS		39 55	121 20	1760		2P				P G & E COMPANY
BURBANK VALLEY PMP PLT	1194	06	LOS ANGELES		34 11	118 21	655	5P	5P			C	BURBANK PUBLIC SERVICE
BURNEY	1214	02	SHASTA		40 53	121 40	3140	8A	8A				MRS CHARLOTTE ESTES
BURNT RANCH 1 S	1215	01	TRINITY		40 48	123 28	2150		8A			H	PAUL F KAUT
BUTTONWILLOW	1244	05	KERN		35 24	119 28	269	8A	8A				BUENA VISTA W S DIST
CACHUMA LAKE	1253	06	SANTA BARBARA		34 35	119 59	781	9A	9A		9AC		U S BUREAU RECLAMATION

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
CAJON WEST SUMMIT	1272	07	SAN BERNARDINO		34 23	117 34	4780				C	SAN BERNARDINO CO FCD
CALAVERAS BIG TREES	1277	05	CALAVERAS		38 17	120 19	4695	8A	8A		H	CAL DIV BEACH & PKS
CALAVERAS RANGER STA	1280	05	CALAVERAS		38 12	120 22	3360		8A		C	U S FOREST SERVICE
CALEXICO 2 NE	1288	07	IMPERIAL		32 41	115 28	12		5P			IMPERIAL IRRIG DIST
CALISTOGA	1312	01	NAPA		38 35	122 35	364	6P	6P			CITY OF CALISTOGA
CALLAHAN	1316	01	SISKIYOU		41 19	122 48	3185	5P	5P			MRS MARIAN HAYDEN
CAMP ANGELUS	1369	06	SAN BERNARDINO		34 09	116 59	5760				C	STATE DIV OF HIGHWAYS
CAMPO	1424	06	SAN DIEGO		32 38	116 28	2630	5P	5P			ARCHIE C LEACH
CAMP PARDEE	1428	05	CALAVERAS		38 15	120 51	658	8A	8A		C	E BAY MUN UTL DIST
CAMPTONVILLE R S	1462	02	YUBA		39 27	121 03	2755				C	U S FOREST SERVICE
CANBY RANGER STATION	1476	02	MODOC		41 27	120 52	4310	2P	2P			U S FOREST SERVICE
CANOGA PARK PIERCE COL	1484	06	LOS ANGELES		34 11	118 34	790	4P	4P			L A PIERCE COLLEGE
CANYON DAM	1497	02	PLUMAS		40 10	121 05	4560	4P	4P		C	P G & E COMPANY
CAPAY 5 WNW	1507	02	YOLO		38 44	122 08	360				C	BROOKS FOREST FIRE STA
CARBON CANYON GILMAN	1518	06	ORANGE		33 55	117 47	1624				C	U S CORPS OF ENGINEERS
CARBON CANYON WORKMAN	1520	06	SAN BERNARDINO		33 58	117 47	1180				C	U S CORPS OF ENGINEERS
CARPINTERIA RESERVOIR	1540	06	SANTA BARBARA		34 24	119 29	385				C	COUNTY OF SANTA BARBARA
CATHEYS VALLEY-WYRE RC	1590	05	MARIPOSA		37 24	120 07	1000		8A			WILL WYRES
CECILVILLE 5 SE	1606	01	SISKIYOU		41 06	123 03	3000	6P	6P			RICHARD W BARRETT
CEDARVILLE	1614	03	MODOC		41 32	120 10	4670	8A	8A		H	U S SOIL CONS SERVICE
CHALLENGE RANGER STA	1653	02	YUBA		39 29	121 13	2570		8A			U S FOREST SERVICE
CHATSWORTH FC 24 F	1680	06	LOS ANGELES		34 15	118 36	950		5P			MRS PAUL NEWTON
CHATSWORTH RESERVOIR	1682	06	LOS ANGELES		34 14	118 37	906				C	U S CORPS OF ENGINEERS
CHERRY VALLEY DAM	1697	05	TUOLUMNE		37 58	119 55	4765	8A	8A		H	HETCH HETCH WTR SUP
CHESTER	1700	02	PLUMAS		40 18	121 14	4525	5P	5P		H	ROGER D ROYAL
CHICO UNIVERSITY FARM	1715	02	BUTTE		39 42	121 49	185	8A	8A		BAC	CHICO UNIVERSITY FARM
CHINA LAKE ARMITAGE	1733	07	KERN		35 41	117 41	2220		7A			U S NAVY CPOIC
CHITTENDEN PASS	1739	04	SANTA CRUZ		36 53	121 38	180		8A			MRS CHRISTINE A HASKIN
CHUCHUPATE RANGER STN	1754	05	VENTURA		34 48	119 01	5260				C	U S FOREST SERVICE
CHULA VISTA	1758	06	SAN DIEGO		32 36	117 06	9	8A	8A		BA	WESTERN SALT COMPANY
CLEARLAKE HIGHLANDS	1806	02	LAKE		38 58	122 38	1360	8A	8A		C	JAMES A LA DIEU
CLOVERDALE 3 SSE	1838	01	SONOMA		38 46	122 59	320	8A	8A			ELMER W OLSON
CLOVERDALE 1 S	1839	01	SONOMA		38 48	123 00	320				C	STATE DIV OF FORESTRY
COALINGA	1864	05	FRESNO		36 09	120 21	670	5P	5P		C	COALINGA FIRE DEPT
COARSEGOLD 1 NW	1878	05	MADERA		37 16	119 42	2360		7A			MRS DOROTHY MCALLISTER
COFFEE CREEK R S	1886	01	TRINITY		41 05	122 42	2500				C	U S FOREST SERVICE
COLEMAN FISHERIES STA	1907	02	SHASTA		40 24	122 08	420		8A			BUR-SPORT FISH & WDLDF
COLFAX	1912	02	PLACER		39 06	120 57	2410	4P	4P		H	DAVID T LASSILA
COLGATE POWER HOUSE	1916	02	YUBA		39 20	121 11	595		4P			YUBA CO WATER AGENCY
COLUSA 2 SSW	1948	02	COLUSA		39 12	122 01	50	4P	4P			CITY OF COLUSA
COPCO 1 DAM	1990	01	SISKIYOU		41 59	122 20	2703		4P		H	PAC POWER & LIGHT CO
CORCORAN IRRIG DIST	2012	05	KINGS		36 06	119 34	200	5P	5P		C	CORCORAN IRRIG DIST
CORNING HOUGHTON RANCH	2027	02	TEHAMA		39 54	122 21	487		8A			TROY DUNCAN
CORONA	2031	06	RIVERSIDE		33 53	117 33	610	5P	5P			CORONA FIRE DEPT
CORRALITOS	2048	04	SANTA CRUZ		36 59	121 48	320				C	STATE DIV OF FORESTRY
COVELO	2081	01	MENDOCINO		39 47	123 15	1430	5P	5P		H	MRS FRANCES V BLACK
COVELO EEL RIVER R S	2084	01	MENDOCINO		39 50	123 05	1514				C	MILO C CUMMINGS
COVINA TEMPLE FC 193 B	2090	06	LOS ANGELES		34 05	117 52	575		5P			WILLIAM B TEMPLE
CRAWFORD RANCH	2139	07	SAN DIEGO		32 53	116 17	1500				C	ROBERT A CRAWFORD
CRESCENT CITY 1 N	2147	01	DEL NORTE		41 46	124 12	40	4P	4P			PAC POWER & LIGHT CO
CRESCENT CITY 7 ENE	2148	01	DEL NORTE		41 48	124 05	120		8A			STATE DEPT-PARKS & REC
CRESCENT CITY MNC STA	2150	01	DEL NORTE		41 46	124 12	50				C	STATE DIV OF HIGHWAYS
CRESTLINE FIRE STA 2	2164	07	SAN BERNARDINO		34 14	117 18	4900				C	CRESTLINE FIRE STA 2
CRYSTAL LAKE FC 283C	2198	06	LOS ANGELES		34 19	117 51	5370		8A			U S FOREST SERV-LACFCD
CULVER CITY	2214	06	LOS ANGELES		34 01	118 24	108	5P	5P			CULVER CITY FIRE DEPT
CUMMINGS	2218	01	MENDOCINO		39 50	123 38	1285		5P		H	MRS MARY S INGRAM
CUYAMACA	2239	06	SAN DIEGO		32 59	116 35	4640	8A	8A		C	HELIX IRRIGATION DIST
DAGGETT EDISON PLANT	2255	07	SAN BERNARDINO		34 52	116 52	1970				C	SO CALIF EDISON CO
DAGGETT FAA AIRPORT	2257	07	SAN BERNARDINO		34 52	116 47	1922	MID	MID		H	FAA
DAVIS 2 WSW EXP FARM	2294	02	YOLO		38 32	121 46	60	8A	8A		BACG	UNIVERSITY OF CALIF
DAY	2306	02	MODOC		41 13	121 23	3650				C	MRS HERMAN L LORENZEN
DEATH VALLEY	2319	07	INYO		36 28	116 52	-194	4P	4P		4P	NATIONAL PARK SERVICE
DEEP CANYON LABORATORY	2327	07	RIVERSIDE		33 39	116 23	1200		8A			BOYD DESERT RESEARCH CT
DEEP SPRINGS COLLEGE	2331	07	INYO		37 22	117 59	5225	7P	7P			DEEP SPRINGS COLLEGE
DEER CREEK FOREBAY	2338	02	NEVADA		39 18	120 50	4455	9A	9A			PACIFIC GAS & ELEC CO
DELANO	2346	05	KERN		35 47	119 15	323		8A			DELANO FIRE DEPT
DEL MONTE	2362	04	MONTEREY		36 36	121 52	45				C	USN POSTGRAD SCHOOL
DENAIR 3 NNE	2389	05	STANISLAUS		37 34	120 47	140	7P	7P			KEN C BRATTON
DE SABLE	2402	02	BUTTE		39 52	121 37	2720	4P	4P			P G & E COMPANY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
DESCANSO RANGER STA	2406	06	SAN DIEGO		32 51	116 37	3500		2P			U S FOREST SERVICE
DIAMOND BAR	2432	06	LOS ANGELES		34 00	117 48	880				C	U S CORPS OF ENGINEERS
DOBBINS 1 S	2456	02	YUBA		39 22	121 12	1640	6P	6P			TERESA R ROYAT
DONNER MEMORIAL ST PK	2467	03	NEVADA		39 19	120 14	5937	8A	8A		H	CALIF DIV BEACH & PKS
DOWNY FIRE STN FC107D	2494	06	LOS ANGELES		33 56	118 09	110		5P			DOWNY FIRE STN-LACFCD
DOWNIEVILLE RANGER STA	2500	02	SIERRA		39 34	120 50	2895	8A	8A		C	U S FOREST SERVICE
DOYLE	2504	03	LASSEN		40 02	120 06	4240		8A			JUNIUS M DIXON
DOYLE 4 SSE	2506	03	LASSEN		39 58	120 05	4390	6P	6P		H	JOHN MATLEY
DRY CANYON RESERVOIR	2516	06	LOS ANGELES		34 29	118 32	1455	7A	7A			L A WTR & PWR DEPT
DUNSMUIR TRTMT PLANT	2574	02	SISKIYOU		41 12	122 16	2170	8A	8A			CITY OF DUNSMUIR TRT PL
EAGLE MOUNTAIN	2598	07	RIVERSIDE		33 48	115 27	973	7A	7A			METRO WATER DISTRICT
EAST PARK RESERVOIR	2640	02	COLUSA		39 22	122 31	1205	8A	8A			FRANKLIN J HOLDEN
ECHO SUMMIT	2671	03	EL DORADO		38 47	120 02	7350	7A	7A			MRS BOBBY SPROCK
EL CAJON	2706	06	SAN DIEGO		32 49	116 58	405	4P	4P			EL CAJON FIRE DEPT 4
EL CAPITAN DAM	2709	06	SAN DIEGO		32 53	116 49	600	7A	7A		C	SAN DIEGO WATER DEPT
EL CENTRO 2 SSW	2713	07	IMPERIAL		32 46	115 34	-30	5P	5P		C	EL CENTRO WATER DEPT
ELECTRA POWER HOUSE	2728	05	AMADOR		38 20	120 40	715	4P	4P		H	P G & E COMPANY
ELK VALLEY	2749	01	DEL NORTE		42 00	123 43	1705				C	LYLE J GARBERSON
ELLERY LAKE	2756	03	MONO		37 56	119 14	9645		MID			SO CALIF EDISON CO
ELLIOTT	2760	05	SAN JOAQUIN		38 14	121 12	92		7A			C NORMAN ADAMS
EL MIRAGE FIELD	2771	07	SAN BERNARDINO		34 36	117 36	2910	8A	8A		H	WILLIAM G BRIEGLER
EL SINORE	2805	06	RIVERSIDE		33 40	117 20	1285	5P	5P		C	STATE DIV OF FORESTRY
ESCONDIDO 2	2863	06	SAN DIEGO		33 07	117 05	600	4P	4P		C	ESCONDIDO FIRE DEPT
ETIWANDA	2895	06	SAN BERNARDINO		34 08	117 31	1390				C	U S CORPS OF ENGINEERS
ETNA	2899	01	SISKIYOU		41 28	122 54	2950				C	GEORGE V HENDRICKS
EUREKA WSO CI	2910	01	HUMBOLDT	#	40 48	124 10	60	MID	MID		C	NATL WEATHER SERVICE
EXCHEQUER RESERVOIR	2920	05	MARIPOSA		37 35	120 16	442		8A		HJ	MERCED IRRIG DIST
EXETER FAUVER RANCH	2922	05	TULARE		36 21	119 04	439				C	CHARLES O COULTER
FAIRFIELD FIRE STN 2	2934	02	SOLANO		38 16	122 02	40	8A	8A			FAIRFIELD FIRE STATION
FAIRFIELD 3 NNE	2935	02	SOLANO		38 17	122 02	110				C	SOLANO COUNTY SURVEYOR
FAIRMONT	2941	07	LOS ANGELES		34 42	118 26	3060	7A	7A			L A WTR & PWR DEPT
FALLBROOK	2958	06	SAN DIEGO		33 21	117 15	660				C	DEPT-SANTATION & F/C
FERGUSON RANCH	3020	02	TEHAMA		40 21	122 27	800				C	U S BUREAU RECLAMATION
FIDLETOWN DEXTER RANC	3038	05	AMADOR		38 32	120 42	2160		8A		C	LEO DEXTER
FIGUEROA MOUNTAIN	3048	06	SANTA BARBARA		34 44	120 00	3200				C	U S FOREST SERVICE
FIVE POINTS 5 SSW	3083	05	FRESNO		36 22	120 09	285	5P	5P			FIVE STAR RANCH
FLORENCE LAKE	3093	05	FRESNO		37 16	118 58	7325				C	SO CALIF EDISON CO
FOLSOM DAM	3113	02	SACRAMENTO		38 42	121 10	350	8A	8A	8A		U S BUREAU RECLAMATION
FONTANA 5 N	3118	06	SAN BERNARDINO		34 11	117 27	1972		6P		H	ROLAND W GETCHELL
FONTANA KAISER	3120	06	SAN BERNARDINO		34 05	117 31	1100	4P	4P			KAISER STEEL CORP
FOREST GLEN	3130	01	TRINITY		40 23	123 20	2340	8A	8A		H	REGAN T WOOD
FORESTHILL RANGER STA	3134	02	PLACER		39 01	120 51	3015		8A			U S FOREST SERVICE
FORT BIDWELL	3157	03	MODOC		41 51	120 08	4500	5P	5P		H	JAMES E FEE
FORT BRAGG	3161	01	MENDOCINO		39 27	123 48	80	8A	8A		C	CALIF & WESTERN R R
FORT DICK	3173	01	DEL NORTE		41 52	124 09	46		8A			BENNY L BEASLEY
FORT JONES RANGER STA	3182	01	SISKIYOU		41 36	122 51	2725	8A	8A		C	U S FOREST SERVICE
FORT ROSS	3191	01	SONOMA		38 31	123 15	112	5P	5P			FORT ROSS ST HIST PARK
FORT SEWARD	3194	01	HUMBOLDT		40 13	123 38	217				C	DONNIE E MILLER
FRENCH GULCH	3242	02	SHASTA		40 42	122 38	1100		7A			MRS PATRICIA A CLARY
FRESNO WSO AP	3257	05	FRESNO	R	36 46	119 43	328	MID	MID		CGHJ	NATL WEATHER SERVICE
FRIANT GOVERNMENT CAMP	3261	05	FRESNO		36 59	119 43	410	8A	8A	8A		U S BUREAU RECLAMATION
FULLERTON DAM	3285	06	ORANGE		33 54	117 53	340				C	U S CORPS OF ENGINEERS
GARBERVILLE	3320	01	HUMBOLDT		40 06	123 48	340		4P			CARROLL A PANCOAST
GASQUET RANGER STATION	3357	01	DEL NORTE		41 52	123 58	384		8A		C	U S FOREST SERVICE
GEM LAKE	3369	03	MONO		37 45	119 08	8970		MID			SO CALIF EDISON CO
GEORGETOWN RANGER STA	3384	02	EL DORADO		38 55	120 47	3001	8A	8A		C	U S FOREST SERVICE
GIBALTAR DAM 2	3402	06	SANTA BARBARA		34 31	119 41	1550		8A		C	SANTA BARBARA WTR DEP
GILROY	3417	04	SANTA CLARA		37 00	121 34	194	9A	9A			GILROY RURAL FIRE DEPT
GILROY 8 NE	3419	04	SANTA CLARA		37 02	121 27	1050				C	HENRY MANTELLI
GLENDORA WEST FC 185	3452	06	LOS ANGELES		34 08	117 52	822		5P			MERRILL WEST-LACFCD
GLENNVILLE	3463	05	KERN		35 43	118 42	3140	5P	8A		H	KERN CO FSTRY & F D
GLENNVILLE FULTON R S	3465	05	KERN		35 44	118 40	3500				C	U S FOREST SERVICE
GOLD ROCK RANCH	3489	07	IMPERIAL		32 53	114 52	485	6P	6P			GOLD ROCK RANCH
GOLD RUN	3491	02	PLACER		39 10	120 52	3320		4P			JOHN F WALL
GOLDSTONE ECHO 2	3498	07	SAN BERNARDINO		35 17	116 47	2950		7A			WESLEY M THOMPSON
GRANT GROVE	3551	05	TULARE		36 44	118 58	6600	8A	8A		H	NATIONAL PARK SERVICE
GRASS VALLEY 2	3573	02	NEVADA		39 13	121 04	2400	8A	8A		C	CITY OF GRASS VALLEY
GRATON	3578	01	SONOMA		38 26	122 52	200	7A	7A			MISS LOUISE HALLBERG
GREENVIEW	3614	01	SISKIYOU		41 33	122 54	2820		12M			MRS EMMA R PEREIRA

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
GREENVILLE RANGER STA	3621	02	PLUMAS		40 08	120 56	3560		8A				U S FOREST SERVICE
GRIZZLY CREEK ST PK	3647	01	HUMBOLDT		40 29	123 54	410	8A	8A				CA DEPT PARKS & REC
GROVELAND 2	3669	05	TUOLUMNE		37 50	120 14	2875				C		FRED H OSBORNE
GROVELAND RANGER STA	3672	05	TUOLUMNE		37 49	120 06	3145		8A				U S FOREST SERVICE
GUERNEVILLE FIRE DEPT	3684	01	SONOMA		38 30	123 00	60	8A	8A				GUERNEVILLE FIRE PROT D
HAIWEE	3710	07	INYO		36 08	117 57	3825	7A	7A				L A WTR & PWR DEPT
HALF MOON BAY	3714	04	SAN MATEO		37 28	122 27	36	5P	5P				DEPT OF PARKS & REC
HAMILTON BRANCH V FD	3725	02	PLUMAS		40 16	121 05	4560				C		HAMILTON BRANCH VO F D
HANFORD 2 S	3747	05	KINGS		36 18	119 39	240	8A	8A				CITY-HANFORD WW TRMT P
HANSEN DAM	3751	06	LOS ANGELES		34 16	118 24	1100				C		U S CORPS OF ENGINEERS
HAPPY CAMP RANGER STA	3761	01	SISKIYOU		41 48	123 22	1210	8A	8A		C	H	U S FOREST SERVICE
HARRISON GULCH R S	3791	02	SHASTA		40 22	122 58	2750	8A	8A		C		U S FOREST SERVICE
HARRY ENGLEBRIGHT DAM	3800	02	NEVADA		39 14	121 16	580		7A				U S CORPS OF ENGINEERS
HAT CREEK P H 1	3824	02	SHASTA		40 56	121 33	3015	8A	8A				PAC GAS & ELEC-OPERATOR
HAYFIELD PUMPING PLANT	3855	07	RIVERSIDE		33 42	115 38	1370	9A	9A		C		METRO WATER DISTRICT
HAYFORK RANGER STATION	3859	01	TRINITY		40 33	123 10	2340		8A				U S FOREST SERVICE
HAYWARD 4 ESE	3863	04	ALAMEDA		37 40	122 00	530				C		RONALD F SORENSEN
HEALDSBURG	3875	01	SONOMA		38 37	122 52	102	6P	6P				HEALDSBURG FIRE DEPT
HEALDSBURG 2	3878	01	SONOMA		38 37	122 52	100		8A				ROY W LOWE
HELL HOLE	3891	02	PLACER		39 04	120 25	4850				C		PLACER COUNTY WTR AGCY
HEMET	3896	06	RIVERSIDE		33 45	116 57	1655		8A				LAKE HEMET MUN WATER
HENSHAW DAM	3914	06	SAN DIEGO		33 14	116 46	2700	7A	7A		C		VISTA IRRIG DIST
HERNANDEZ 7 SE	3928	04	SAN BENITO		36 18	120 42	2765				C		MRS CLORENE AKERS
HETCH HETCHY	3939	05	TUOLUMNE		37 57	119 47	3870	8A	8A		C		HETCH HETCHY WTR SUP
HILTS	3987	01	SISKIYOU		42 00	122 38	2900	5P	5P				FRUIT GROWERS SUP CO
HOLLISTER 2	4025	04	SAN BENITO		36 51	121 24	280	4P	8A		C		CITY OF HOLLISTER
HOLLISTER 9 ENE	4035	04	SAN BENITO		36 55	121 14	2600				C		MRS MARY E ROBERTS
HONEYDEW 1 SW	4074	01	HUMBOLDT		40 14	124 08	370				C		BEVERLY R KOHLER
HOOPA	4082	01	HUMBOLDT		41 03	123 40	360	8A	8A				BURTON HOLT
HOOPA TRINITY RIVER	4089	01	HUMBOLDT		41 03	123 40	333				C		BUREAU INDIAN AFFAIRS
HUASNA	4144	06	SN LUIS OBPO		35 05	120 23	730				C		KEITH HOLLOWAY
HUNTINGTON LAKE	4176	05	FRESNO		37 14	119 13	7020	4P	4P		C	H	SO CALIF EDISON CO
HURKEY CREEK PARK	4181	06	RIVERSIDE		33 41	116 41	4390				C		RIVERSIDE CO PK DEPT
HYAMPOM	4191	01	TRINITY		40 37	123 27	1275				C		MRS GAIL KLOPFER
IDYLLWILD FIRE DEPT	4211	06	RIVERSIDE		33 45	116 43	5397	4P	4P		C	H	IDYLLWILD FIRE DEPT
IMPERIAL	4223	07	IMPERIAL		32 51	115 34	-64	6P	6P				IMPERIAL IRRIG DIST
INDEPENDENCE	4232	07	INYO		36 48	118 12	3950	7A	7A		C		L A WTR & PWR DEPT
INDIO U S DATE GARDEN	4259	07	RIVERSIDE		33 44	116 15	11	8A	8A		BA	G	AGRI RESEARCH CENTER
INYO KERN	4278	07	KERN		35 39	117 49	2440	5P	5P				KERN CO FIRE DEPT
IOWA HILL	4288	02	PLACER		39 05	120 50	3056		8A				MRS DONNA TUTTLE
IRON MOUNTAIN	4297	07	SAN BERDINO		34 08	115 08	922	7A	7A		C		METRO WATER DIST
JESS VALLEY	4374	02	MODOC		41 16	120 18	5300	5P	5P			H	RANDY CHRISTENSEN
JULIAN WYNOLA	4418	06	SAN DIEGO		33 06	116 39	3650	SS	SS				CHARLES VILINEK
JUNCAL DAM	4422	06	SANTA BARBARA		34 29	119 30	2075		8A				MONTECITO COUNTY WTR DP
KELSEY 1 N	4484	02	EL DORADO		38 49	120 49	2000		8A				ROBERT C KYLE
KENTFIELD	4500	01	MARIN		37 57	122 33	128	4P	4P				RAYMOND J MULLEN
KERLINGER	4508	05	SAN JOAQUIN		37 41	121 26	177		8A				LONE STAR INDUSTRIES
KERN RIVER P H 1	# 4520	05	KERN		35 28	118 47	970	3P	3P				SO CALIF EDISON CO
KERN RIVER P H 3	4523	05	KERN		35 47	118 26	2703	5P	5P			H	SO CALIF EDISON CO
KETTLEMAN STATION	4536	05	KINGS		36 04	120 05	508		6P				P G & E COMPANY
KING CITY	4555	04	MONTEREY		36 12	121 08	320	4P	8A		C		STATE DIV OF FORESTRY
KLAMATH	4577	01	DEL NORTE		41 31	124 02	25	5P	5P		C		HAROLD DEL PONTE
KNEELAND 10 SSE	4587	01	HUMBOLDT		40 38	123 54	2356				C		MRS EDRA L MOORE
LA CRESCENTA FC 251 B	4628	06	LOS ANGELES		34 13	118 15	1565		5P				CRESCENTA VLY CO W D
LAGUNA BEACH	# 4647	06	ORANGE		33 33	117 47	35	4P	4P				SEWAGE DISPOSAL PLANT
LAGUNA BEACH 2	4650	06	ORANGE		33 33	117 48	210				C		L B WATER DISTRICT
LAKE ARROWHEAD	4671	07	SAN BERDINO		34 15	117 11	5205	5P	5P			H	LAKE ARROWHEAD F D
LAKE MENDOCINO DAM	4689	01	MENDOCINO		39 14	123 11	670				C		COYOTE DAM PROJ OFFICE
LAKEPORT	4701	02	LAKE		39 02	122 55	1345	5P	5P				GEORGE R TURNBULL
LAKE SABRINA	4705	07	INYO		37 13	118 37	9065		MID				SO CALIF EDISON CO
LAKESHORE 2	4708	02	SHASTA		40 52	122 23	1075				C		USBR-SHASTA FIELD DIV
LAKESIDE 2 E	4710	06	SAN DIEGO		32 51	116 53	690		8A				HELIX IRRIGATION DIST
LAKE SOLANO	4712	02	SOLANO		38 30	122 00	140	8A	8A		BA	C	U S BUREAU RECLAMATION
LAKE SPAULDING	4713	02	NEVADA		39 19	120 38	5156	4P	4P			H	P G & E COMPANY
LAKE WOHLFORD	4726	06	SAN DIEGO		33 10	117 00	1500				C		ESCONDIDO MTL WTR CO
LA MESA	4735	06	SAN DIEGO		32 46	117 01	530	5P	5P				LA MESA FIRE DEPT
LANCASTER FSS/FAA	4749	07	LOS ANGELES		34 44	118 13	2340	MID	MID			H	DEPT OF TRANSPORTATION
LA PANZA	4762	04	SN LUIS OBPO		35 22	120 13	1880				C		THOMAS W FOSS
LAVA BEDS NAT MONUMENT	4838	01	SISKIYOU		41 44	121 31	4770	9A	9A			H	NATIONAL PARK SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
LAYTONVILLE	4851	01	MENDOCINO		39 42	123 29	1650				C	STATE DIV OF FORESTRY
LEBEC	4863	05	KERN		34 50	118 52	3585		8A			KERN CO FIRE DEPT
LECHUZA PT STA FC 352B	4867	06	LOS ANGELES		34 05	118 53	1600		4P		C	L A CO FIRE DEPT
LEGGETT	4883	01	MENDOCINO		39 52	123 43	700				C	PATRICIA BUTLER
LEMON COVE	4890	05	TULARE		36 23	119 02	513	8A	8A			KAWAHE LEMON CO
LINDSAY	4957	05	TULARE		36 12	119 03	420	7P	7P			LINDSAY-STRATHMORE IR D
LIVERMORE-VYVERBERG	4997	04	ALAMEDA		37 40	121 46	490	5P	5P			HAL VYVERBERG
LODGEPOLE	5026	05	TULARE		36 36	118 44	6735	8A	8A		C H	NATIONAL PARK SERVICE
LODI	5032	05	SAN JOAQUIN		38 07	121 17	40	5P	5P	5P		LODI FIRE DEPT HOUSE 3
LOMPOC	5064	06	SANTA BARBARA		34 39	120 27	95	4P	4P			LOMPOC WATER TRMT PLT
LONE PINE CTNWOOD P H	5067	07	INYO		36 27	118 03	3790				C	L A WTR & PWR DEPT
LONG BEACH WSO AP	5085	06	LOS ANGELES	R	33 49	118 09	34	MID	MID		C HJ	NATL WEATHER SERVICE
LORAIN	5098	05	KERN		35 18	118 26	2720				C	BURRELL REED
LOS ALAMOS	5107	06	SANTA BARBARA		34 45	120 17	565		8A			S BARBARA CO F STA 24
LOS ANGELES WSO AP	5114	06	LOS ANGELES	R	33 56	118 23	100	MID	MID		C HJ	NATL WEATHER SERVICE
LOS ANGELES CIVIC CTR	5115	06	LOS ANGELES	R	34 03	118 14	257	MID	MID		C H	LACAPCD & SUP WSFO/LAX
LOS BANOS	5118	05	MERCED		37 03	120 52	120	8A	8A			CENTRAL CALIF IRR DIST
LOS BANOS ARBURUA RCH	5119	05	MERCED		36 53	120 56	860		5P			ARBURUA RANCH
LOS BANOS DET RESV	5120	05	MERCED		37 01	120 56	407	9A	9A	9A		CAL DEPT WTR RESOURCES
LOS GATOS	5123	04	SANTA CLARA		37 14	121 58	365	5P	5P			SHANNON FIRE STATION
LOS GATOS 4 SW	5125	04	SANTA CRUZ		37 11	122 02	2415		8A			ALLEN HELENIUS
LOS PRIETOS RANGER STA	5147	06	SANTA BARBARA		34 33	119 47	1024		8A			U S FOREST SERVICE
LOST HILLS	5151	05	KERN		35 37	119 41	288				C	KERN COUNTY FIRE DEPT
LOWER OTAY RESERVOIR	5162	06	SAN DIEGO		32 37	116 56	540				C	SAN DIEGO WTR DEPT
LUCIA WILLOW SPRINGS	5184	04	MONTEREY		35 53	121 27	355				C	STATE DIV OF HIGHWAYS
LYTLE CR FOOTHILL BLVD	5212	06	SAN BERNARDINO		34 06	117 20	1160				C	SAN BERNARDINO FCD
LYTLE CREEK RANGER STA	5218	06	SAN BERNARDINO		34 14	117 29	2730		8A		C	U S FOREST SERVICE
MADERA	5233	05	MADERA		36 57	120 02	270	8A	8A			MADERA COUNTY FIRE DEPT
MAD RIVER RANGER STA	5244	01	TRINITY		40 27	123 32	2775		8A			DIST RANGER US FOR SERV
MAHNKE	5258	02	LAKE		38 51	122 47	2390				C	MRS ELIZABETH MAHNKE
MANZANITA LAKE	5311	02	SHASTA		40 32	121 34	5750	8A	8A		H	LASSEN VOLCANIC NATL PK
MARICOPA	5338	05	KERN		35 05	119 23	675	8A	8A			STANDARD OIL OF CALIF
MARIPOSA	5346	05	MARIPOSA		37 29	119 58	2011		9A			MARIPOSA CO COURT HOUSE
MARKLEY COVE	5360	02	NAPA		38 30	122 07	480	9A	9A	9A		U S BUREAU RECLAMATION
MARTINEZ 2 S	5371	04	CONTRA COSTA		37 58	122 08	230				C	MRS MARGARET S PLUMMER
MARTINEZ WATER PLANT	5378	04	CONTRA COSTA		38 01	122 07	40	4P	4P			MARTINEZ WTR PURIF PT
MARYSVILLE	5385	02	YUBA		39 09	121 36	57	9A	9A			MARYSVILLE FIRE DEPT
MATHER	5400	05	TUOLUMNE		37 53	119 51	4510		8A			CITY SAN FRANCISCO
MATILIJIA DAM	5417	06	VENTURA		34 29	119 18	1060				C	VENTURA CO FLOOD CONT
MC CLOUD	5449	02	SISKIYOU		41 15	122 08	3280	7A	7A		H	MC CLOUD COMMUNITY SERV
MECCA FIRE STATION	5502	07	RIVERSIDE		33 34	116 04	180	5P	8A			STATE DIV OF FORESTRY
MENDOTA DAM	5528	05	FRESNO		36 47	120 22	166		7A			E C ELKINS
MERCED MUNICIPAL AP	5532	05	MERCED		37 17	120 31	153	5P	5P			MERCED MUNICIPAL AP
MERCED 2	5535	05	MERCED		37 19	120 29	170				C	MERCED IRRIG DIST
MICHIGAN BLUFF	5586	02	PLACER		39 03	120 44	3480				C	MRS DOROTHY L TURCO
MIDDLETOWN	5598	02	LAKE		38 45	122 37	1130		8A			STATE DIV OF FORESTRY
MILFORD LAUFMAN R S	5623	03	LASSEN		40 08	120 21	4860				C	U S FOREST SERVICE
MILL CREEK INTAKE	5632	06	SAN BERNARDINO		34 05	116 56	4945				C	SO CALIF EDISON CO
MILL CREEK SUMMIT R S	5637	06	LOS ANGELES		34 23	118 05	4990				C	L A CO FLOOD CONTROL D
MILO 5 NE	5669	05	TULARE		36 16	118 46	3100				C	MRS FLORENCE S WALTER
MINERAL	5679	02	TEHAMA		40 21	121 36	4875	8A	8A		C H	NATIONAL PARK SERVICE
MIRANDA 4 SE	5711	01	HUMBOLDT		40 11	123 47	263				C	CHARLES A EMRICK
MIRANDA SPENGLER RANCH	5713	01	HUMBOLDT		40 12	123 46	360				C	PHYLLIS ANN BARTON
MITCHELL CAVERNS	5721	07	SAN BERNARDINO		34 56	115 32	4350	4P	4P		H	CA DEPT OF PARKS & REC
MODESTO	5738	05	STANISLAUS		37 39	121 00	91	MID	MID			MODESTO IRRIG DIST
MODESTO 2	5741	05	STANISLAUS		37 38	121 00	89				C	CITY OF MODESTO
MOJAVE	5756	07	KERN		35 03	118 10	2735	4P	4P		C	KERN CO FIRE DEPT
MONO LAKE	5779	03	MONO		38 00	119 09	6450	5P	5P		H	JACK PRESTON
MONTAGUE SISK CO AP	5785	01	SISKIYOU		41 47	122 28	2635				C	FLIGHT SERVICE STATION
MONTEBELLO	5790	06	LOS ANGELES		34 02	118 06	240	4P	4P			MONTEBELLO FIRE DEPT
MONTEREY	5795	04	MONTEREY		36 36	121 54	385	6P	6P			ROBERT J RENARD
MORENA DAM	5840	06	SAN DIEGO		32 41	116 31	3075				C	DEP-SANITATION-FLOOD C
MORGAN HILL	5853	04	SANTA CLARA		37 08	121 39	350		8A		C	LEONARD W COATES
MORRO BAY FIRE DEPT	5866	04	SN LUIS OBPO		35 22	120 51	115	8A	8A			MORRO BAY FIRE DEPT.
MOUNTAIN PASS	5890	07	SAN BERNARDINO		35 28	115 32	4730	8A	8A		H	STATE DIV OF HIGHWAYS
MOUNT DIABLO JUNCTION	5915	04	CONTRA COSTA		37 52	121 56	2170	8A	8A			MT DIABLO STATE PARK
MOUNT HAMILTON	5933	04	SANTA CLARA		37 20	121 39	4206	4P	4P			LICK OBSERVATORY
MOUNT HEBRON R S	5941	01	SISKIYOU		41 47	122 02	4250	8A	8A			U S FOREST SERVICE
MOUNT SHASTA WSO CI	5983	02	SISKIYOU	R	41 19	122 19	3539	MID	MID		C HJ	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
MOUNT TAMALPAIS 2 SW	5996	01	MARIN		37 54	122 36	1475						CA DIV PARKS & RECRE
MT WILSON 2	# 6006	06	LOS ANGELES		34 14	118 04	5709	3P	3P			H	MR-MRS ALBERT L HAILEY
MUIR WOODS	6027	01	MARIN		37 54	122 34	225		5P				NATIONAL PARK SERVICE
NAPA STATE HOSPITAL	# 6074	01	NAPA		38 17	122 16	60	5P	5P			H	NAPA ST HOSP-FIRE DEPT
NAVARRO 1 NW	6105	01	MENDOCINO		39 10	123 34	150					C	MASONITE CORPORATION
NEEDLES	6115	07	SAN BERNINO		34 50	114 36	480					C	CITY OF NEEDLES
NEEDLES FAA AIRPORT	6118	07	SAN BERNINO		34 46	114 37	914	4P	4P			H	DEPT-TRANSPORTATION-FAA
NEVADA CITY	6136	02	NEVADA		39 15	121 02	2600	7A	7A				CITY OF NEVADA
NEWARK	6144	04	ALAMEDA		37 31	122 02	10	8A	8A				LESLIE SALT COMPANY
NEW CUYAMA FIRE STA	6154	06	SANTA BARBARA		34 57	119 41	2160	8A	8A			C	SAN BAR CO FIRE STA 41
NEWHALL SOLEDAD FC32CE	6162	06	LOS ANGELES		34 23	118 32	1243		4P			C	L A CO FLOOD CONT
NEWMAN	6168	05	STANISLAUS		37 18	121 02	90	5P	5P				RICHARD A SMITH
NEW MELONES DAM	6172	05	TUOLUMNE		37 57	120 32	775	8A	8A			BAC	U S BUREAU RECLAMATION
NEWPORT BEACH HARBOR	6175	06	ORANGE		33 36	117 53	10	5P	5P				ORANGE CO HARBOR DIST
NICOLAUS 2	6194	02	SUTTER		38 55	121 33	43		8A				RECLAMATION DIST 1001
NILAND	6197	07	IMPERIAL		33 17	115 31	-60		8A				IMPERIAL IRRIG DIST
NORTH BLOOMFIELD	6232	02	NEVADA		39 22	120 54	3280					C	MALAKOFF DIGGINS ST PK
NORTH FORK RANGER STA	6252	05	MADERA		37 14	119 30	2630	8A	8A				U S FOREST SERVICE
NOVATO 8 WNW	6290	01	MARIN		38 08	122 43	400					C	MARION COUNTY FIRE DEPT
OAK GROVE RANGER STN	6319	06	SAN DIEGO		33 23	116 48	2750	1P	1P			C	OAK GROVE STN USFS
OAK KNOLL R S 2	6329	01	SISKIYOU		41 51	122 53	1700		8A				U S FOREST SERVICE
OAKLAND MUSEUM	6336	04	ALAMEDA		37 48	122 16	30	MID	MID				NATL WEATHER SERVICE
OAKVILLE 1 WNW	6351	01	NAPA		38 27	122 25	160		5P				MRS LILLIAN DEL BONDIO
OAKVILLE 4 SW 2	6356	01	NAPA		38 24	122 28	1685					C	EMILIE HUCKFELDT
OCCIDENTAL	6370	01	SONOMA		38 25	122 58	960		5P				ANDREW J BLANEY
OCEANSIDE MARINA	6377	06	SAN DIEGO		33 13	117 24	10	4P	4P				OCSIDE SML CRFT HAR DIS
OCEANSIDE PUMPING PL	6379	06	SAN DIEGO		33 13	117 21	30					C	OCEANSIDE WATER DEPT
OCOTILLO 2	6390	07	IMPERIAL		32 45	116 00	410		7A				HARRY CAULK
OJAI	6399	06	VENTURA		34 27	119 14	750	4P	8A				VENTURA CO FIRE DEPT
ONO	6455	02	SHASTA		40 29	122 37	980		7A				DAMON L BRAZELL
ORANGE COUNTY RESVR	6473	06	ORANGE		33 56	117 53	660					C	U S CORPS OF ENGINEERS
ORANGE COVE	6476	05	FRESNO		36 37	119 18	430	10A	10A				ORANGE COVE CIT ASSN
ORICK PRAIRIE CREEK PK	6498	01	HUMBOLDT		41 22	124 01	160	5P	5P				CAL DIV BEACH & PARKS
ORLAND	6506	02	GLENN		39 45	122 12	254	8A	8A				ORLAND UNIT WU ASSN
ORLEANS	6508	01	HUMBOLDT		41 18	123 32	410	6P	6P				JACK G CLARK
ORLEANS R S	6513	01	HUMBOLDT		41 18	123 32	430					C	U S FOREST SERVICE
ORVILLE DAM	6527	02	BUTTE		39 32	121 29	845	8A	8A				BOARD OF WATER COMM
OXNARD	6569	06	VENTURA		34 12	119 11	49	8A	8A				CITY OF OXNARD
OZENA GUARD STATION	6577	06	VENTURA		34 41	119 21	3590					C	VENTURA CO FLOOD CONT D
PACIFIC HOUSE	6597	02	EL DORADO		38 45	120 30	3440		7A				FLOYD R POOLE
PACOIMA DAM FC 33 A E	6602	06	LOS ANGELES		34 20	118 24	1500		8A				THOMAS J WERNITZ-LACFCO
PAICINES OHRWALL RANCH	6610	04	SAN BENITO		36 44	121 22	950		8A				FRANK P SALANO
PALMDALE	6624	07	LOS ANGELES		34 35	118 06	2596	5P	5P			C	PALMDALE IRRIG DIST
PALM SPRINGS	6635	07	RIVERSIDE		33 50	116 30	425	4P	4P				PALM SPGS FIRE DEPT
PALO ALTO	6646	04	SANTA CLARA		37 27	122 08	25	8A	8A				PALO ALTO FIRE STN 3
PALOMA	6650	04	MONTEREY		36 21	121 30	1835		5P				JAMES A BELL
PALOMAR MT OBSERVATORY	6657	06	SAN DIEGO		33 21	116 52	5550	7A	7A			C H	PALOMAR OBSERVATORY
PALOS VERDES EST FC43D	6663	06	LOS ANGELES		33 48	118 23	216		7A				SUPT OF STREETS & PARKS
PANOCHÉ 2 W	6675	05	SAN BENITO		36 36	120 52	1320		6P				MRS MARGARET STROHM
PARADISE	6685	02	BUTTE		39 45	121 37	1750	8A	8A				PARADISE FIRE DEPT
PARKER RESERVOIR	6699	07	SAN BERNINO		34 17	114 10	738	7A	7A			C	METRO WATER DISTRICT
PASADENA	6719	06	LOS ANGELES		34 09	118 09	864	4P	4P				PASADENA WATER DEPT
PASKENTA RANGER STA	6726	02	TEHAMA		39 53	122 32	755		8A			C	U S FOREST SERVICE
PASO ROBLES	6730	04	SN LUIS OBPO		35 38	120 41	700	5P	5P			C	CITY-PASO ROBLES WTR D
PASO ROBLES FAA AP	6742	04	SN LUIS OBPO		35 40	120 38	800	MID	MID			H	FAA
PATTIWAY	6754	05	KERN		34 56	119 23	3868		7A			H	JOHN HUDSON
PAYNES CREEK	6761	02	TEHAMA		40 20	121 54	1840		8A				NELLIE THOMPSON
PETALUMA FIRE STA 2	6826	01	SONOMA		38 14	122 38	16	8A	8A			C	PETALUMA FIRE STA 2
PINECREST SUMMIT R S	6893	05	TUOLUMNE		38 15	120 00	5600					C	USFS DISTRICT RANGER
PINE FLAT DAM	6896	05	FRESNO		36 49	119 20	610		7A				U S CORPS OF ENGINEERS
PINE MOUNTAIN INN	6910	06	VENTURA		34 36	119 21	4200					C	VENTURA CTY FLD CONTROL
PINNACLES NAT MONUMENT	6926	04	SAN BENITO		36 29	121 11	1307	8A	8A				NATIONAL PARK SERVICE
PIRU 2 ESE	6940	06	VENTURA		34 24	118 45	730		7A				CAMULOS RANCH
PIRU TELEMETERING	6942	06	VENTURA		34 24	118 42	800					C	U S GEOLOGICAL SURVEY
PISMO BEACH	6943	04	SN LUIS OBPO		35 08	120 38	80	7A	7A				POLICE DEPARTMENT
PIT RIVER P H 1	6944	02	SHASTA		41 00	121 30	2880		4P			H	PACIFIC GAS & ELECTRIC
PIT RIVER P H 5	6946	02	SHASTA		40 59	121 59	1458		5P				P G & E COMPANY
PLACERVILLE	6960	02	EL DORADO		38 44	120 48	1890	8A	8A			H	P G & E COMPANY
PLACERVILLE IFG	6962	02	EL DORADO		38 44	120 44	2755	4P	4P				INST FORESTRY GENETICS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PLACERVILLE DISP PLANT	6964	02	EL DORADO		38 44	120 51	1560				C	CITY OF PLACERVILLE
PLUMAS EUREKA STATE PK	6998	02	PLUMAS		39 45	120 42	5165				C	PLUMAS EUREKA ST PK
POINT ARENA	7009	01	MENDOCINO		38 54	123 42	100	8A	8A		C	JACK W ROOFENER
POMONA CAL POLY	7050	06	LOS ANGELES		34 04	117 49	740	4P	4P			CALIF POLYTECHNIC UNIV
PORTERVILLE	7077	05	TULARE		36 04	119 01	393	8A	8A			JOHN H DAYBELL
PORTOLA	7085	02	PLUMAS		39 48	120 28	4850	5P	5P		C	MS PAT CHENEY
POSEY 3 E	7096	05	TULARE		35 48	118 38	4960	SS	7A			PANORAMA HTS LODGE
POTTER VALLEY 3 SE	7108	01	MENDOCINO		39 18	123 04	1100				C	U S CORPS OF ENGINEERS
POTTER VALLEY P H	7109	01	MENDOCINO		39 22	123 08	1015	4P	4P		C	P G & E COMPANY
POWAY VALLEY	7111	06	SAN DIEGO		32 57	117 02	490		4P			POWAY FIRE DEPT
PRADO DAM	7123	06	RIVERSIDE		33 53	117 38	560				C	U S CORPS OF ENGINEERS
PRIEST VALLEY	7150	04	MONTEREY		36 11	120 42	2300	SS	SS			NELSON H PALMER
QUINCY USFS HELIPORT	7197	02	PLUMAS		39 58	120 57	3650	8A	8A			U S FOREST SERVICE
RAMONA FIRE DEPT	7228	06	SAN DIEGO		33 03	116 52	1450	3P	3P			RAMONA FIRE DEPT
RANDBURG	7253	07	KERN		35 22	117 39	3570	5P	8A			KERN CO FIRE DEPT
RED BLUFF WSO AP	R 7292	02	TEHAMA		40 09	122 15	342	MID	MID		C HJ	NATL WEATHER SERVICE
REDDING 5 SSE	7295	02	SHASTA		40 30	122 22	425				C	CITY OF REDDING
REDDING FIRE STN 4	7300	02	SHASTA		40 33	122 23	470	6P	6P			REDDING FIRE DEPT
REDLANDS	7306	06	SAN BERNARDINO		34 03	117 11	1318	10A	2P			REDLANDS DAILY FACTS
REDWOOD CITY	7339	04	SAN MATEO		37 29	122 14	31	5P	5P			CITY FIRE DEPT STA 2
REDWOOD CREEK O'KANE	7342	01	HUMBOLDT		40 54	123 49	850				C	NANCY CHEZEM
REPRESA	7370	02	SACRAMENTO		38 42	121 10	295		MID			FOLSOM STATE PRISON
RICHARDSON GROVE ST PK	7404	01	HUMBOLDT		40 02	123 47	500	8A	8A			RICHARDSON GROVE ST PK
RICHMOND	# 7414	04	CONTRA COSTA		37 56	122 21	55	6P	6P			CITY OF RICHMOND
RIVERSIDE FIRE STA 3	7470	06	RIVERSIDE		33 57	117 23	840	5P	5P			RIVERSIDE FIRE STA 3
RIVERSIDE CIT EXP STN R	7473	06	RIVERSIDE		33 58	117 21	986	MID	MID		C	AGRI RESEARCH CENTER
ROBBS PEAK P H	7489	02	EL DORADO		38 54	120 22	5120				C	SAC MUNIC UTL DIST
ROUND MT P G AND E	7581	02	SHASTA		40 48	121 56	2100		6P		C	PACIFIC GAS AND ELEC CO
RUNNING SPRINGS 1 E	7600	07	SAN BERNARDINO		34 12	117 05	5965				C	STATE DIV OF HIGHWAYS
RUTH DAM TELEMETERING	7614	01	TRINITY		40 22	123 26	2686				C	RUSSELL FRASIER
SACRAMENTO FAA AP	R 7630	02	SACRAMENTO		38 31	121 30	18	MID	MID		C HJ	FLIGHT SERVICE STA FAA
SACRAMENTO WSO CI	R 7633	02	SACRAMENTO		38 35	121 30	84	MID	MID		C	NATL WEATHER SERVICE
SAGEHEN CREEK	7641	03	NEVADA		39 26	120 14	6337	5P	5P			UNIVERSITY OF CALIF
SAINTE HELENA	7643	01	NAPA		38 30	122 28	225	8A	8A			STATE DIV OF FORESTRY
SAINTE HELENA 4 WSW	7646	01	NAPA		38 30	122 32	1780				C	GERALD A CAIN
SAINTE MARYS COLLEGE	7661	04	CONTRA COSTA		37 50	122 06	623	7P	7P			BROTHER U BENEDICT
SALINAS 3 E	7668	04	MONTEREY		36 40	121 36	85	5P	5P			U S DEPT OF AGRI ARS
SALINAS FAA AP	7669	04	MONTEREY		36 40	121 36	69	MID	MID		H	FAA
SALINAS DAM	7672	04	SN LUIS OBPO		35 20	120 30	1245		8A			SALINAS DAM OPERATORS
SALSIPUEDES GAGING STA	7681	06	SANTA BARBARA		34 35	120 24	250		8A			JOE CABRAL JR
SALT SPRINGS PWR HOUSE	7689	05	AMADOR		38 30	120 13	3700	3P	3P			PACIFIC GAS & ELEC CO
SAN BENITO	7719	04	SAN BENITO		36 31	121 05	1355				C	JOHN M SHIELDS
SAN BERNARDINO CO HOSP	7723	06	SAN BERNARDINO		34 08	117 16	1125	6P	6P			S B COUNTY HOSPITAL
SAN CLEMENTE DAM	7731	04	MONTEREY		36 26	121 42	600		8A			CALIF AMERICAN WATER CO
SANDBERG PTL FC130B	7734	06	LOS ANGELES		34 45	118 43	4025		8A			L A CO FIRE DEPT
SANDBERG WSMO	R 7735	06	LOS ANGELES		34 45	118 44	4517	MID	MID		C HJ	NATL WEATHER SERVICE
SAN DIEGO WSO AP	# 7740	06	SAN DIEGO		32 44	117 10	13	MID	MID		C HJ	NATL WEATHER SERVICE
SAN DIMAS FIRE WD FC95	7749	06	LOS ANGELES		34 06	117 48	955		8A			L A COUNTY FIRE DEPT
SAN DIMAS TANBARK FLAT	7750	06	LOS ANGELES		34 12	117 46	2720				C	U S FOREST SERVICE
SAN FERNANDO P H 3	7762	06	LOS ANGELES		34 19	118 30	1250				C	U S CORPS OF ENGINEERS
S F RICHMOND SUNSET	R 7767	04	SN FRANCISCO		37 46	122 30	32	5P	MID		C	CITY SAN FRANCISCO
SAN FRANCISCO WSO AP	R 7769	04	SAN MATEO		37 37	122 23	8	MID	MID		C HJ	NATL WEATHER SERVICE
SAN FRANCISCO WSO CI	# 7772	04	SN FRANCISCO		37 47	122 25	130	MID	MID		C J	NATL WEATHER SERVICE
SAN GABRIEL CANYON PH	7776	06	LOS ANGELES		34 09	117 54	744		5P			PASADENA WATER DEPT
SAN GABRIEL DM FC425BE	7779	06	LOS ANGELES		34 12	117 52	1481		8A		C	TONY H GEORGE
SAN GABRIEL FIRE DEPT	7785	06	LOS ANGELES		34 06	118 06	450	4P	4P			CITY FIRE DEPARTMENT
SAN GREGORIO 2 SE	7807	04	SAN MATEO		37 18	122 22	275	7P	7P			GARY J ARATA
SAN JACINTO RANGER STN	7813	06	RIVERSIDE		33 47	116 58	1560	5P	8A		C	STATE DIV OF FORESTRY
SAN JOAQUIN EXP RANGE	7817	05	MADERA		37 05	119 43	1050				C	U S FOREST SERVICE
SAN JOSE	7821	04	SANTA CLARA		37 21	121 54	67	4P	4P		C J	CITY OF SAN JOSE
SAN JUAN BAUTISTA 3SSE	7834	04	SAN BENITO		36 48	121 31	550				C	MRS GAY D CARMAN
SAN JUAN GUARD STN	7837	06	ORANGE		33 36	117 31	730				C	ORANGE CO F C DISTRICT
SAN LUIS DAM	7846	05	MERCED		37 03	121 04	277	8A	8A		8A	CAL DEPT WTR RESOURCES
SAN LUIS OBISPO POLY	7851	04	SN LUIS OBPO		35 18	120 40	315	7A	7A		C	CAL STATE POLY COL
SAN MARCOS PASS	7859	06	SANTA BARBARA		34 31	119 49	2300				C	CTY OF SANTA BARBARA
SAN MIGUEL WOLF RANCH	7867	04	SN LUIS OBPO		35 45	120 41	720				C	MRS DONALD W WOLF
SAN PASQUAL ANIMAL PK	7874	06	SAN DIEGO		33 05	117 00	420	4P	4P			SAN DIEGO WLD ANIMAL PK
SAN RAFAEL	# 7880	01	MARIN		37 58	122 32	40	4P	4P			INDEPENDENT JOURNAL
SANTA ANA FIRE STATION	7888	06	ORANGE		33 45	117 52	135	4P	4P			SANTA ANA FIRE DEPT

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER		
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)			
SANTA ANA RIVER P H 3	7891	06	SAN BERNARDINO		34 06	117 06	1970					C	SO CALIF EDISON CO	
SANTA BARBARA	7902	06	SANTA BARBARA		34 25	119 41	5	8A	8A			C	WASTEWATER TRTMT PLANT	
SANTA BARBARA FAA AP	7905	06	SANTA BARBARA		34 26	119 50	9	MID	MID			H	FAA	
SANTA CRUZ	7916	04	SANTA CRUZ		36 59	122 01	130	8A	8A				RONALD A MACDONALD	
SANTA FE DAM	7926	06	LOS ANGELES		34 07	117 58	427					C	U S CORPS OF ENGINEERS	
SANTA MARGARITA BOOST	7933	04	SN LUIS OBPO		35 22	120 38	1100		8A			C	THOMAS M BROWN	
SANTA MARIA WSO AP	7946	06	SANTA BARBARA		34 54	120 27	254	MID	MID			C	NATL WEATHER SERVICE	
SANTA MONICA PIER	7953	06	LOS ANGELES		34 00	118 30	15	4P	4P			H	HARBORMASTER-SANTA MON	
SANTA PAULA	7957	06	VENTURA		34 21	119 05	260	4P	8A				VENTURA CO FIRE DEPT	
SANTA ROSA	7965	01	SONOMA		38 27	122 42	167	7A	7A				FREDERICK VAN ESCHEN	
SANTA YNEZ	7976	06	SANTA BARBARA		34 37	120 05	600					C	SANTA BARBARA CO FIRE D	
SANTIAGO DAM	7987	06	ORANGE		33 47	117 43	855					C	HUDSON SALMON (FOR COE)	
SANTIAGO PEAK	7993	06	RIVERSIDE		33 43	117 32	5638					C	ORANGE CO FLOOD CONT	
SAUGUS PWR PLT 1	8014	06	LOS ANGELES		34 35	118 27	2105		7A				L A WTR & PWR DEPT	
SAWYERS BAR RANGER STN	8025	01	SISKIYOU		41 18	123 08	2169	8A	8A			C	U S FOREST SERVICE	
SCOTIA	8045	01	HUMBOLDT		40 29	124 06	139	8A	8A			H	PACIFIC LUMBER CO	
SEBASTOPOL	8072	01	SONOMA		38 24	122 49	65					C	CITY OF SEBASTOPOL	
SEPULVEDA DAM	8092	06	LOS ANGELES		34 10	118 28	670					C	U S CORPS OF ENGINEERS	
SHASTA DAM	8135	02	SHASTA		40 43	122 25	1075	8A	8A			BAC	U S BUREAU RECLAMATION	
SHELTER COVE AVIATION	8163	01	HUMBOLDT		40 01	124 04	415	4P	4P			H	H W YOUNG	
SHINGLETOWN 2 E	8175	02	SHASTA		40 30	121 51	3555		7A				MRS GERTRUDE POLEN	
SHOSHONE	8200	07	INYO		35 58	116 16	1570		7A				MARVIN E NOLT	
SIERRA CITY	8207	02	SIERRA		39 34	120 38	4230	5P	5P				RAYMOND V DARRAH	
SIERRAVILLE RANGER STA	8218	02	SIERRA		39 35	120 22	4975	8A	8A			C	U S FOREST SERVICE	
SIGNAL HILL FC 415	8230	06	LOS ANGELES		33 48	118 10	100						MANUEL VILLEGAS-LACFCO	
SILVERADO RANGER STA	8243	06	ORANGE		33 45	117 39	1095					C	U S CORPS OF ENGINEERS	
SIMI SANITATION PLANT	8261	06	VENTURA		34 17	118 49	660					C	VENTURA CO FLOOD CONT D	
SLACK CREEK	8277	04	MONTEREY		36 04	120 39	1900					C	WALTI RANCH	
SNOW CREEK UPPER	8317	07	RIVERSIDE		33 52	116 41	1940		7A				DESERT WATER AGENCY	
SODA SPRINGS 1 E	8332	02	NEVADA		39 19	120 22	6885					C	SNOW PROJECT	
SOLEDAD	8338	04	MONTEREY		36 26	121 19	205		8A			C	ALDEN N ANDERSON	
SONOMA	8351	01	SONOMA		38 18	122 28	97	5P	5P				CAL DEPT PARKS & REC	
SONORA R S	8353	05	TUOLUMNE		37 59	120 23	1749	8A	8A				STATE DIV OF FORESTRY	
SONORA JUNCTION	8355	03	MONO		38 21	119 27	6886					C	STATE DIV OF HIGHWAYS	
SO ENTRANCE YOSEMITE	8380	05	MARIPOSA		37 30	119 38	5120	8A	8A			H	NATIONAL PARK SERVICE	
SOUTH LAKE	8406	07	INYO		37 11	118 34	9580		MID				SO CALIF EDISON CO	
SPADRA PAC FC 356 C	8436	06	LOS ANGELES		34 03	117 49	676					C	J E STULL FOR LACFCO	
SPRECKELS HWY BRIDGE	8446	04	MONTEREY		36 36	121 41	60		8A				WALTER B HENNES	
SPRINGVILLE R S	8460	05	TULARE		36 08	118 48	1050					C	U S FOREST SERVICE	
SPRINGVILLE TULE HDWKS	8463	05	TULARE		36 12	118 39	4070					C	PAC GAS-ELEC POWERHOUSE	
STANDISH-HICKEY ST PK	8490	01	MENDOCINO		39 53	123 44	850		8A				CA DEPT-PARKS & REC	
STIRLING CITY R S	8544	02	BUTTE		39 54	121 32	3520					C	STATE DIV OF FORESTRY	
STOCKTON WSO AP	8558	05	SAN JOAQUIN		37 54	121 15	22	MID	MID			C	WEATHER SERVICE OFFICE	
STOCKTON FIRE STA 4	8560	05	SAN JOAQUIN		38 00	121 19	12	8A	8A			H	STOCKTON FIRE STA 4	
STONYFORD RANGER STA	8580	02	COLUSA		39 23	122 33	1168		1P				U S FOREST SERVICE	
STONY GORGE RESERVOIR	8587	02	GLENN		39 35	122 32	791	8A	8A			C	ORLAND WATER USERS ASSN	
STRAWBERRY VALLEY	8606	02	YUBA		39 34	121 06	3808	5P	8A			H	MRS LILLIAN MAGRUDER	
SUN CITY	8655	06	RIVERSIDE		33 43	117 12	1420	4P	8A				RIVERSIDE CO FIRE DEPT	
SUNSET STATE BEACH	8680	04	SANTA CRUZ		36 54	121 50	80					C	CALF DEPT OF PKS & REC	
SURF 2 ENE	8697	06	SANTA BARBARA		34 41	120 34	110					C	U S AIR FORCE	
SUSANVILLE AIRPORT	8702	03	LASSEN		40 22	120 34	4146	8A	8A				WILLIAM M MURRAY II	
SUSANVILLE 1 WNW	8703	03	LASSEN		40 26	120 40	4555					C	STATE DIV OF FORESTRY	
SUTTER HILL RANGER STA	8713	05	AMADOR		38 23	120 48	1586		8A				STATE DIV OF FORESTRY	
TAFT	8752	05	KERN		35 09	119 28	1025					C	KERN CO FSTRY & FD	
TAHOE CITY	8758	03	PLACER		39 10	120 08	6230	8A	8A			7A	H	JAMES MILLER
TAHOE VALLEY FAA AP	8762	03	EL DORADO		38 54	120 00	6254	11P					FAA	
TEHACHAPI	8826	05	KERN		35 08	118 27	3975	4P	8A			H	KERN COUNTY FIRE DEPT	
TEHACHAPI AIRPORT	8832	05	KERN		35 08	118 26	3960					C	TEHACHAPI CUMMINGS	
TEJON RANCHO	8839	05	KERN		35 02	118 45	1425	5P	5P				TEJON AGRJ PARTNERS	
TEMECULA	8844	06	RIVERSIDE		33 30	117 09	1020					C	STATE DIV OF FORESTRY	
TERMO	8873	03	LASSEN		40 52	120 27	5300	7P	7P			C	DENNIS RAY HUNKE	
THE GEYSERS	8885	01	SONOMA		38 48	122 50	1668					C	MRS FAYE DEWEY	
THERMAL FAA AP	8892	07	RIVERSIDE		33 38	116 10	-112	MID	MID			H	FAA	
THERMAL FIRE STA 39	8893	07	RIVERSIDE		33 38	116 10	-115					C	RIVERSIDE CO FIRE DEPT	
THREE RIVERS 6 SE	8912	05	TULARE		36 25	118 50	1980					C	MRS MURIEL H KENWOOD	
THREE RYRS EDISON PH 1	8917	05	TULARE		36 28	118 52	1140	2P	2P			C	SO CALIF EDISON CO	
TIGER CREEK P H	8928	05	AMADOR		38 27	120 29	2355	4P	4P			C	PACIFIC GAS & ELEC CO	
TOPANGA PATROL STN FC6	8967	06	LOS ANGELES		34 05	118 36	745		8A				LACFCO	
TORRANCE	8973	06	LOS ANGELES		33 48	118 20	110	4P	4P				TORRANCE MUN AIRPORT	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
MARCH 1981

STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
TRABUCO CANYON	8992	06	ORANGE		33 39	117 36	970					C	ORANGE CO PARK DEPT
TRACY CARBONA	8999	05	SAN JOAQUIN		37 42	121 25	140	7A	7A				BANTA CARBONA IRRIG DIST
TRACY PUMPING PLANT	9001	05	ALAMEDA		37 48	121 35	61	6P	6P	6P			U S BUREAU RECLAMATION
TRINITY RIVER HATCH	9026	01	TRINITY		40 43	122 48	1860	8A	8A	8A			U S BUREAU RECLAMATION
TRONA	9035	07	SAN BERNARDINO		35 46	117 23	1695	8A	8A				KERR MCGEE CHEM CORP
TRUCKEE RANGER STATION	9043	03	NEVADA		39 20	120 11	5995	8A	8A			C	U S FOREST SERVICE
TUJUNGA	9047	06	LOS ANGELES		34 16	118 17	1820	7P	7P				JAMES D PARRA
TULELAKE	9053	01	SISKIYOU		41 58	121 28	4035	4P	4P	4P		H	TULELAKE IRRIG DIST
TURLOCK	9073	05	STANISLAUS		37 29	120 51	115		8A				CARL A PEARSON
TUSTIN IRVINE RANCH	9087	06	ORANGE		33 44	117 47	118	7A	7A				THE IRVINE COMPANY
TWENTYNINE PALMS	9099	07	SAN BERNARDINO		34 08	116 02	1975	4P	4P				JOSHUA TREE NATL MON
TWIN LAKES	9105	02	ALPINE		38 42	120 02	8000	8A	8A			H	CA DEPT OF TRANS
TWITCHELL DAM	9111	06	SANTA BARBARA		34 59	120 19	582	4P	4P	4P			SANTA MARIA VLY WCD
UHL RANGER STATION	9120	05	TULARE		35 53	118 39	3725					C	USFS C/O DIST RANGER
UKIAH	9122	01	MENDOCINO		39 09	123 12	623	6P	6P				UKIAH FIRE DEPARTMENT
UKIAH 4 WSW	9124	01	MENDOCINO		39 08	123 16	1900		8A			H	MRS MARJORIE S DORY
U C L A	9152	06	LOS ANGELES		34 04	118 27	430	4P	4P				METEOROLOGY DEPT UCLA
UPPER LAKE 7 W	9167	02	LAKE		39 11	123 02	1524		4P				EDGAR J SCHUETTE
UPPER MATTOLE	9177	01	HUMBOLDT		40 15	124 11	255		8A				WESLEY C ROSCOE
UPR SAN LEANDRO FILTER	9185	04	ALAMEDA		37 46	122 10	394	6A	6A			C	E BAY MUN UTL DIST
VACAVILLE	9200	02	SOLANO		38 22	121 57	105	5P	5P				VACAVILLE FIRE STA 2
VALYERMO FIRE STN 79	9250	07	LOS ANGELES		34 27	117 52	3600	5P	5P				LOS ANGELES CO F STN 79
VAN NUYS FC 15A	9260	06	LOS ANGELES		34 11	118 27	695		4P				L A DEPT WATER & POWER
VENADO	9273	01	SONOMA		38 37	123 01	1260					C	SONOMA CO WATER AGENCY
VENTURA	9285	06	VENTURA		34 17	119 17	95		8A				VENTURA CO FLOOD CONT
VICTORVILLE PUMP PLANT	9325	07	SAN BERNARDINO		34 32	117 18	2858	8A	8A			C	VICTOR CO WATER DIST
VINCENT FIRE STA FC120	9345	06	LOS ANGELES		34 29	118 08	3135		5P				L A CO FIRE DEPT
VINTON	9351	02	PLUMAS		39 49	120 11	4950		4P				FRANK DOTTA
VISALIA	9367	05	TULARE		36 20	119 18	325	8A	8A				VISALIA FIRE DEPARTMENT
VISTA 2 NNE	9378	06	SAN DIEGO		33 14	117 14	510	4P	4P				VISTA FIRE DEPT
VOLTA POWER HOUSE	9390	02	SHASTA		40 28	121 52	2220		4P			C	P G & E COMPANY
WALNUT CREEK 2 ENE	9426	04	CONTRA COSTA		37 54	122 01	220					C	TOMAS S VANASEK
WALNUT PTL STA FC102C	9431	06	LOS ANGELES		34 00	117 52	488		8A				L A CO FIRE DEPT
WARM SPRINGS DAM	9440	01	SONOMA		38 43	123 00	224	8A	8A	8A			U S ARMY COE
WASCO	9452	05	KERN		35 36	119 20	333	4P	8A				KERN COUNTY FIRE DEPT
WATSONVILLE WATERWORKS	9473	04	SANTA CRUZ		36 56	121 46	95	8A	8A				CITY OF WATSONVILLE
WAWONA RANGER STATION	9482	05	MARIPOSA		37 33	119 39	3985					C	WOWONA DIST OFFICE
WEAVERVILLE RANGER STA	9490	01	TRINITY		40 44	122 56	2050	8A	8A			C	U S FOREST SERVICE
WEED FIRE DEPARTMENT	9499	01	SISKIYOU		41 26	122 23	3590	8A	8A				WEED FIRE DEPARTMENT
WELDON 1 WSW	9512	05	KERN		35 40	118 18	2680					C	VERNON J BLOUNT
WESTHAVEN	9560	05	FRESNO		36 13	119 59	285		7A				BOSTON LAND COMPANY
WEST POINT	9582	05	CALAVERAS		38 24	120 32	2820		8A				STATE DIV OF FORESTRY
WHEATLAND 2 NE	9605	02	YUBA		39 02	121 23	105					C	GEORGE I OKANO
WHISKEYTOWN RES	9621	02	SHASTA		40 37	122 32	1295	8A	8A	8A			NATIONAL PARK SERVICE
WHITTIER CTY H FC 106C	9660	06	LOS ANGELES		33 58	118 02	340		5P				WHITTIER WATER D-LACFCO
WHITTIER NARROWS DAM	9666	06	LOS ANGELES		34 01	118 05	239					C	U S CORPS OF ENGINEERS
WILDROSE RANGER STA	9671	07	INYO		36 16	117 11	4100	4P	4P			H	NATIONAL PARK SERVICE
WILLIAMS	9677	02	COLUSA		39 09	122 09	85	8A	8A				POLICE DEPARTMENT
WILLITS 1 NE	9684	01	MENDOCINO		39 25	123 20	1350	4P	4P			H	CITY OF WILLITS
WILLITS HOWARD FOR R S	9685	01	MENDOCINO		39 21	123 19	1925					C	STATE DIV OF FORESTRY
WILLOW CREEK 1 NW	9694	01	HUMBOLDT		40 57	123 38	461	8A	8A	8A			U S FOREST SERVICE
WILLOWS 6 W	9699	02	GLENN		39 31	122 18	233	4P	4P				U S BUREAU RECLAMATION
WINTERS	9742	02	YOLO		38 32	121 58	135	9A	9A				J NEWTON WALLACE
WOFFORD HEIGHTS	9754	05	KERN		35 43	118 27	2730		4P				GEORGE R WENZEL
WOODFORDS	9775	03	ALPINE		38 47	119 49	5670	4P	4P			C H	DAVID O ZELLMER
WOODLAND 1 WNW	9781	02	YOLO		38 41	121 48	69	9A	9A				U C AGR EXTEN SERV
WOODSIDE FIRE STN 1	9792	04	SAN MATEO		37 26	122 15	380	5P	5P				WOODSIDE FIRE DEPT
WRIGHTS	9814	04	SANTA CLARA		37 08	121 57	1600		5P				MARVIN E WARE
YORBA LINDA	9847	06	ORANGE		33 53	117 49	350	6P	6P				KENNETH C FOSTER
YORKVILLE	9851	01	MENDOCINO		38 54	123 14	1100					C	R J DURRETT
YOSEMITE PARK HEADQTRS	9855	05	MARIPOSA		37 45	119 35	3966	7A	7A			C H	NATIONAL PARK SERVICE
YREKA	9866	01	SISKIYOU		41 43	122 38	2625	8A	8A			H	U S FOREST SERVICE
ZENIA-KETTENPOM STORE	9953	01	TRINITY		40 10	123 27	3600					C	ARCHIE B FUGATE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

CALIFORNIA

This Bulletin is prepared in Cooperation with Department of Water Resources, State of California

Additional information regarding the climate of this State may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA" for this State.

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. Monthly heating and cooling degree totals are the sums of the negative and positive departures, respectively, of average daily temperatures from 65°F. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** 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 National Weather Service Offices and FAA stations. For these stations snow on ground values are at 4:00 a.m., p.s.t., except for Bishop WSO, Blue Canyon WSO, and Sandberg WSO, which are taken at 6 a.m., p.s.t., and Mt. Shasta WSO at 8:00 a.m., p.s.t. Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "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.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**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. Time of observation 10:00 a.m., p.s.t.

**SNOWFALL:** Entries of snowfall in the "Monthly Summarized Data" table, 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.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**DIVISIONS,** as used in this publication, became effective with data for January 1941.

**STATION NAMES:** Figures and letters following the station name, such as 12 SSW, indicate distance in miles and directions from the post office.

**SEASONAL TABLES:** Monthly and seasonal snowfall and heating degree days for the 12 months ending with the preceding June data will be carried in the July issue of this bulletin.

**EVAPORATION AND WIND TABLE:** Friant Government Camp : Pan screen covered.

DAILY SOIL TEMPERATURE TABLE:	Soil Type	Soil Cover	Degree of Slope
Brawley 2 SW	: Holtville silty clay	Grass	0%
Davis 2 WSW Exp Farm	: Sandy loam	Bare	2%
Fresno WSO AP	: Atwater sandy loam	Bare	0%
Indio U.S. Date Garden	: Sandy loam	Bare	0%

**LATE REPORTS AND CORRECTIONS** will be published annually as a Supplemental bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, "Daily Soil Temperatures" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- 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.)
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR This entry in time of observation column in Station Index means after rain.
- C Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- G "Soil Temperature" table.
- H "Snowfall and Snow on Ground" table. Omission of data in any month indicates no snowfall and/or snow on ground in that month.
- J "Supplemental Data" table.
- SS This entry in time of observation column in Station Index means observations made near sunset.
- VAR This entry in time of observation column in Station Index means variable.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1955 may be found in the publication "Substation History" for this State, price \$1.25. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45c single copy; \$1.00 foreign; 45c annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

February 24, 1982

374  
2/25/82

Regulations

Director  
Bureau of Alcohol, Tobacco and Firearms  
Washington, DC 20220

Public Comment on Proposed Boundary For  
California North Coast Viticultural Area

Dear Sir:

Introduction

Marin County should be included in the "North Coast" viticultural area.

Marin has the same uniqueness of soils and climate; combination of rainfalls and temperature during the growing season; diurnal and nocturnal extremes; morning fogs and lowering of the water tables during the ripening weeks as Sonoma, Lake, Mendocino and Solano Counties.

Marin County has as great a historical claim to the name "North Coast" as the adjacent areas of Sonoma, Lake, Mendocino and Solano Counties.

I

THE PROPOSED AREA OF THE NORTH COAST, AS AMENDED,  
IS NOT GEOGRAPHICALLY DISTINGUISHABLE FROM THE  
ADJACENT GRAPE GROWING AREA OF MARIN COUNTY

- A. A significant acreage in Marin County is devoted to the cultivation of grapes according to statistics compiled by the California Crop and Livestock Reporting Service 1980 survey. (Exhibit "A", pgs. A1-A5)

- B. The geographical features of the proposed area do not produce growing conditions which distinguish the proposed area from the contiguous area of Marin County as required by Sec. 4.25a(e)(2)(iii).

1. SOIL TYPE

- a. The soils of Marin area virtually indistinguishable from those of Sonoma and Napa (Exhibit B)
- b. The comments of Profession Crowley, Phd. set forth in California North Coast Grape Growers request dated September 14, 1979, could be incorporated herein and compel the inclusion of Marin in the "North Coast" as being ". . . north of San Francisco."
- c. It has already been determined that soil types found within the proposed boundary are so diverse that a meaningful viticultural area cannot be formed on the basis of soil composition. (27 CFR Part 9, Notice No. 404, Re: Notice No. 360)

2. CLIMATE

- a. The proposed area of the "North Coast" as amended includes locations in up to four different recognized grape growing regions. (Exhibit C pgs. C1-C3)
- b. Marin County grape acreage presently in production is in the high Region II using the heat summation above 50 degrees Fahrenheit from April through October as expressed as degree days. (Exhibits C and D1 and D2)

i. Hamilton Field, in Marin County (Exhibit D) is directly across Highway U.S. 101 from one of Marin's vineyards.

ii. Vineyards in Marin County are in the same Region as the cities of Napa and Sonoma. (Exhibit E)

## II

THE PROPOSED AERA OF THE NORTH COAST, BECAUSE IT DOES NOT INCLUDE MARIN COUNTY, DOES NOT INCLUDE ALL OF THE AREA HISTORICALLY KNOWN AS THE NORTH COAST

- A. Marin County has been historically and traditionally considered "North Coast." (Exhibit F)
- B. In agricultural matters, Marin County is considered conjunctively with Napa and Sonoma County. (Exhibit G)
- C. Most importantly, Marin County is inextricably connected with Sonoma County as a viticultural area (Exhibits H and I) and as a wine making area (Exhibit J).

## III

### CONCLUSION

There is no rational basis for excluding Marin County from the North Coast viticultural area.

By omitting Marin County, the proposed area of the North Coast, as amended, does not meet the requirements of 27 CFR 4.25a(e).

IV

REQUEST

By amending the proposed boundary from the point beginning at the conjunction of the Sonoma County-Marin County lines and the Pacific Ocean to running along the Ocean and San Pablo Bay around Marin to the Napa County, Sonoma County line, the area included would comply with the requirements of 27 CFR 4.25a(e).

Respectfully submitted,



Herbert M. Rowland, Jr.  
5495 Redwood Highway  
Ignacio, California 94947

415 - 823 5583

California Grape Acreage 1980

California Crop and Livestock Reporting Service  
Post Office Box 1258  
Sacramento, California 95806

pps. 16, 20, 22, 30, 32

EXHIBIT A 1-5



TABLE 10. WINE TYPE GRAPES: Acreage standing, by variety, by year planted, by county, California--continued

County	1971 and earlier	1972	1973	1974	1975	1976	1977	1978	1979	1980	Bearing	Non-bearing	Total
<u>BLACK MALVOISIE</u>													
Fresno	98	---	---	---	---	---	---	---	---	---	98	---	98
Kern	66	---	---	---	---	---	---	---	---	---	66	---	66
Napa	1	---	---	---	---	---	---	---	---	---	1	---	1
San Bernardino	66	---	---	---	---	---	---	---	---	---	66	---	66
San Diego	6	---	---	---	---	---	---	---	---	---	6	---	6
San Joaquin	31	---	---	---	---	---	---	---	---	---	31	---	31
Solano	4	---	---	---	---	---	---	---	---	---	4	---	4
Sonoma	2	---	---	---	---	---	---	---	---	---	2	---	2
Stanislaus	45	---	---	---	---	---	---	---	---	---	45	---	45
Tulare	183	7	---	---	---	---	---	---	---	---	190	---	190
TOTAL	502	7	---	---	---	---	---	---	---	---	509	---	509
<u>BURGER</u>													
Kern	74	55	---	---	---	---	---	---	---	---	129	---	129
Lake	1	---	---	---	---	---	---	---	---	---	1	---	1
Madera	20	---	---	---	---	---	---	---	---	---	20	---	20
Mendocino	8	2	---	---	---	---	---	---	---	---	10	---	10
Napa	122	---	---	---	---	---	---	---	---	---	122	---	122
Sacramento	5	---	---	---	---	---	---	---	---	---	5	---	5
San Benito	23	---	---	---	---	---	---	---	---	---	23	---	23
San Bernardino	349	---	---	---	---	---	---	---	---	---	349	---	349
San Joaquin	541	47	9	---	4	---	14	---	22	124	615	146	761
Sonoma	152	---	1	---	---	---	---	---	---	---	153	---	153
Tulare	143	7	---	74	---	---	---	---	---	---	224	---	224
TOTAL	1,438	111	10	74	4	---	14	---	22	124	1,651	146	1,797
<u>CABERNET FRANC</u>													
Lake	---	---	---	4	6	1	1	---	---	---	12	---	12
Napa	25	---	---	6	17	3	6	17	49	2	57	68	125
San Diego	5	---	---	---	---	---	---	---	---	---	5	---	5
Santa Barbara	---	---	---	---	---	1	---	---	2	---	1	2	3
Sonoma	---	---	---	---	1	---	---	4	---	6	1	10	11
TOTAL	30	---	---	10	24	5	7	21	51	8	76	80	156
<u>CABERNET SAUVIGNON</u>													
Alameda	19	---	---	5	---	12	3	---	---	---	39	---	39
Amador	7	23	15	---	---	---	---	---	---	5	45	5	50
Butte	---	62	109	---	---	---	---	---	---	---	171	---	171
Calaveras	---	---	2	5	2	---	---	---	---	---	9	---	9
El Dorado	1	---	17	4	---	---	---	1	---	3	22	4	26
Fresno	---	39	---	1	19	---	---	---	---	---	59	---	59
Kern	39	195	304	315	---	---	---	---	---	---	853	---	853
Lake	188	217	313	319	33	10	---	---	3	---	1,080	3	1,083
Madera	---	---	37	19	---	---	---	---	---	---	56	---	56
Marin	8	4	2	---	---	---	---	---	1	---	14	1	15
Mendocino	360	73	126	200	49	107	5	5	---	---	920	5	925
Merced	31	---	81	---	---	---	---	---	---	---	112	---	112
Monterey	1,186	693	1,293	1,192	---	---	---	---	21	104	4,364	125	4,489
Napa	2,127	1,099	673	690	261	89	112	193	166	159	5,051	518	5,569
Nevada	---	---	3	---	---	---	---	---	---	---	3	---	3
Orange	---	---	15	---	---	---	---	---	---	---	15	---	15
Placer	---	---	3	---	---	---	---	---	---	---	3	---	3
Riverside	44	---	22	116	25	28	---	---	---	---	235	---	235
Sacramento	13	77	176	254	---	---	---	---	---	---	520	---	520
San Benito	497	---	---	11	---	---	---	---	---	---	508	---	508
San Joaquin	67	148	253	96	9	---	---	88	39	---	573	127	700
San Luis Obispo	33	294	363	232	4	---	---	---	16	---	926	16	942
San Mateo	2	---	---	1	1	---	---	---	---	---	4	---	4
Santa Barbara	243	254	357	203	22	---	---	---	13	---	1,079	13	1,092
Santa Clara	110	25	15	23	9	---	---	---	2	---	182	2	184
Santa Cruz	8	4	---	---	---	---	---	---	---	---	12	---	12
Shasta	---	---	5	---	---	---	---	---	---	---	5	---	5
Solano	33	5	---	196	---	1	---	---	---	---	235	---	235
Sonoma	1,536	556	992	834	94	86	261	49	50	22	4,359	121	4,480
Stanislaus	80	8	99	---	---	---	---	---	---	---	187	---	187
Tehama	9	18	7	---	---	---	---	---	---	---	34	---	34
Tulare	---	43	---	---	---	---	---	---	---	---	43	---	43
Ventura	---	---	1	---	---	---	---	---	---	---	1	---	1
Yolo	30	---	---	---	---	---	---	1	---	---	30	1	31
Yuba	---	---	---	---	---	7	3	12	---	99	10	111	121
TOTAL	6,671	3,837	5,283	4,716	528	340	384	349	311	392	21,759	1,052	22,811

TABLE 10. WINE TYPE GRAPES: Acreage standing, by variety, by year planted, by county, California--continued

County	1971 and earlier	1972	1973	1974	1975	1976	1977	1978	1979	1980	Bearing	Non- bearing	Total
FRENCH COLOMBARD													
Alameda	67	---	---	---	---	---	---	---	---	---	67	---	67
Contra Costa	---	---	---	---	---	---	---	---	34	---	---	34	34
Fresno	3,951	1,166	247	319	4	80	44	279	1,257	1,304	5,811	2,920	8,731
Glenn	30	---	---	---	---	---	---	---	95	93	30	188	218
Kern	2,729	1,168	441	---	5	80	---	105	250	1,494	4,423	1,849	6,272
Kings	7	---	---	---	---	---	9	---	32	---	16	32	48
Madera	2,056	506	867	---	---	4	173	1,162	1,719	804	3,666	3,685	7,291
Marin	---	---	---	---	---	---	---	---	---	155	---	155	155
Mendocino	916	11	---	9	5	---	13	67	48	33	954	148	1,102
Merced	2,119	96	11	7	1	---	---	133	412	761	2,234	1,306	3,540
Monterey	152	90	79	141	---	---	---	20	10	312	462	342	804
Napa	419	2	1	---	---	---	---	6	---	16	422	22	444
Riverside	17	---	---	---	---	---	---	---	---	---	17	---	17
Sacramento	30	---	2	---	---	---	---	56	37	---	32	93	125
San Joaquin	1,140	48	602	2	---	---	46	408	2,934	230	1,838	3,572	5,410
San Luis Obispo	12	---	---	---	---	---	---	22	24	---	12	46	58
Santa Clara	97	---	---	---	1	---	---	---	---	---	98	---	98
Solano	70	---	---	---	---	---	---	11	---	---	70	11	81
Sonoma	1,042	36	8	11	1	1	4	19	38	57	1,103	114	1,217
Stanislaus	2,181	171	54	14	---	60	170	243	583	272	2,650	1,098	3,748
Tehama	23	---	---	---	---	---	---	---	---	---	23	---	23
Tulare	3,070	207	---	50	---	36	153	106	744	368	3,516	1,238	4,754
Yolo	---	---	---	---	---	---	---	---	10	5	---	15	15
TOTAL	20,128	3,501	2,312	553	17	261	612	2,637	8,227	6,004	27,384	16,868	44,252
GAMAY 1/													
Alameda	65	---	---	---	6	---	---	---	---	---	71	---	71
Butte	---	28	27	---	---	---	---	---	---	---	55	---	55
Calaveras	---	---	---	2	---	---	---	---	---	---	2	---	2
Glenn	---	---	206	---	---	---	---	---	---	---	206	---	206
Kern	3	195	---	63	---	---	---	---	---	---	261	---	261
Lake	---	---	80	94	82	32	16	---	---	---	304	---	304
Madera	12	---	---	46	---	---	---	---	---	---	58	---	58
Mendocino	95	---	6	7	---	---	---	---	2	---	108	2	110
Merced	---	---	---	42	---	---	---	---	---	---	42	---	42
Monterey	257	223	351	133	---	---	---	---	---	---	964	---	964
Napa	587	56	92	221	170	11	5	1	---	7	1,142	8	1,150
Sacramento	---	---	178	137	---	---	---	---	---	---	315	---	315
San Diego	---	---	---	22	---	---	---	---	---	---	22	---	22
San Joaquin	24	12	136	51	---	---	---	---	50	---	223	50	273
San Luis Obispo	---	---	26	65	---	---	---	---	---	---	91	---	91
Santa Clara	1	---	---	---	---	---	---	---	---	---	1	---	1
Shasta	---	---	17	5	---	---	---	---	---	---	22	---	22
Solano	84	6	20	87	2	2	---	4	5	---	201	9	210
Sonoma	211	40	40	60	6	34	6	---	---	---	397	---	397
Stanislaus	---	---	73	---	---	---	---	---	---	---	73	---	73
Tehama	46	19	---	2	---	---	---	---	---	---	67	25	92
Yolo	---	32	---	---	---	---	---	---	---	---	32	---	32
TOTAL	1,385	611	1,252	1,037	266	79	27	5	57	32	4,657	94	4,751
GAMAY BEAUJOLAIS													
Alameda	36	---	---	---	---	---	---	---	---	---	36	---	36
Butte	---	---	7	---	---	---	---	---	---	---	7	---	7
Kern	10	75	---	---	---	---	---	---	---	---	85	---	85
Lake	5	---	1	8	3	---	---	---	---	---	17	---	17
Mendocino	301	111	82	132	6	---	2	---	---	---	634	---	634
Monterey	300	237	128	363	7	---	---	4	---	---	1,035	4	1,039
Napa	271	96	41	40	12	2	---	3	---	---	462	3	465
Riverside	45	---	---	---	---	---	---	---	---	---	45	---	45
San Benito	499	---	2	---	---	---	---	---	---	---	501	---	501
San Joaquin	1	---	1	---	---	---	---	---	---	---	2	---	2
San Luis Obispo	32	4	2	22	---	---	---	---	---	---	60	---	60
Santa Barbara	47	55	221	32	---	---	---	---	---	---	355	---	355
Santa Clara	85	---	---	---	---	---	---	---	---	---	85	---	85
Santa Cruz	---	---	---	1	---	---	---	---	---	---	1	---	1
Solano	7	---	---	6	---	---	---	---	---	---	13	---	13
Sonoma	241	93	38	107	92	24	4	3	4	---	595	7	606
Tulare	---	43	---	---	---	---	---	---	---	---	43	---	43
TOTAL	1,886	714	523	711	120	26	6	10	4	---	3,980	14	3,994

1/ Same as Napa Gamay.

TABLE 10. WINE TYPE GRAPES: Acreage standing, by variety, by year planted, by county, California--continued

County	1971 and earlier	1972	1973	1974	1975	1976	1977	1978	1979	1980	Bearing	Non- bearing	Total
<u>GRENAACHE</u>													
Fresno	2,248	118	214	160	58	---	18	25	2	3	2,816	30	2,846
Glenn	19	---	84	55	---	---	---	---	---	---	158	---	158
Kern	736	1,236	124	329	---	---	---	---	---	---	2,425	---	2,425
Kings	57	11	74	---	---	---	---	---	2	46	142	48	190
Madera	1,596	1,205	474	383	5	30	9	33	87	85	3,702	205	3,907
Marin	---	---	---	---	---	---	---	---	---	130	---	130	130
Mendocino	72	6	---	---	---	---	---	---	---	---	77	---	77
Merced	580	58	77	7	25	---	20	---	1	375	767	376	1,143
Monterey	---	---	146	282	---	---	---	---	---	---	428	---	428
Napa	28	---	1	---	---	---	---	---	---	---	29	---	29
Riverside	125	---	---	---	---	---	---	---	---	---	125	---	125
San Benito	169	---	---	---	---	---	---	---	---	---	169	---	169
San Bernardino	814	---	---	---	---	---	---	---	---	---	814	---	814
San Diego	24	---	---	---	---	---	---	---	---	---	24	---	24
San Joaquin	2,319	88	58	39	41	---	---	3	---	---	2,545	3	2,548
Santa Clara	47	---	---	---	---	---	---	---	---	---	47	---	47
Sonoma	39	---	---	---	8	---	---	---	---	1	47	1	48
Stanislaus	1,801	89	89	12	---	10	18	3	---	---	2,019	3	2,022
Tulare	312	99	14	5	---	---	---	---	---	---	430	---	430
TOTAL	10,986	2,909	1,355	1,272	137	40	65	64	92	640	16,764	796	17,560
<u>GRIGNOLINO</u>													
Napa	18	---	---	---	---	---	---	---	---	---	18	---	18
Santa Clara	24	---	6	---	7	---	---	---	---	---	37	---	37
TOTAL	42	---	6	---	7	---	---	---	---	---	55	---	55
<u>MALBEC</u>													
Napa	7	---	---	---	8	---	---	---	---	---	15	1	16
Stanislaus	---	---	41	---	---	---	---	---	---	1	41	---	41
TOTAL	7	---	41	---	8	---	---	---	---	1	56	1	57
<u>MALVASIA BIANCA</u>													
Alameda	6	---	---	---	---	---	---	---	---	2	6	2	8
Fresno	5	81	---	---	---	---	---	---	---	---	86	---	86
Madera	---	11	43	---	---	---	---	---	---	---	54	---	54
Mendocino	2	---	---	---	---	---	---	---	---	---	2	---	2
Monterey	---	---	102	67	---	---	---	---	---	---	169	---	169
Napa	6	---	---	---	---	---	---	---	---	---	6	---	6
San Bernardino	15	---	---	---	---	---	---	---	---	---	15	---	15
Santa Clara	9	30	---	---	---	---	---	---	---	---	39	---	39
Selma	4	---	---	---	---	---	---	---	---	---	4	---	4
Sonoma	1	---	---	---	---	---	---	---	---	---	1	---	1
Stanislaus	178	---	---	---	---	---	---	---	---	---	178	---	178
Tulare	50	9	135	---	---	---	---	---	---	75	194	75	269
TOTAL	276	131	280	67	---	---	---	---	---	77	754	77	831
<u>MATARO</u>													
Alameda	16	---	---	---	---	---	---	---	---	---	16	---	16
Contra Costa	179	---	---	---	---	---	---	---	---	---	182	---	182
Lake	2	---	---	---	---	---	3	---	---	---	2	---	2
Napa	6	---	---	---	---	---	---	---	---	---	6	---	6
Placer	28	---	---	---	---	---	---	---	---	---	30	---	30
Riverside	78	---	---	---	---	---	2	---	---	---	78	---	78
San Benito	9	---	---	---	---	---	---	---	---	---	9	---	9
San Bernardino	542	---	---	---	---	---	---	---	---	---	542	---	542
San Diego	10	---	---	---	---	---	---	---	---	---	10	---	10
Santa Clara	43	---	---	---	---	---	---	---	---	---	43	---	43
Sonoma	12	---	---	---	---	---	---	---	---	---	12	---	12
TOTAL	925	---	---	---	---	---	5	---	---	---	930	---	930

TABLE 10. WINE TYPE GRAPES: Acreage standing, by variety, by year planted, by county, California--continued

County	1971 and earlier	1972	1973	1974	1975	1976	1977	1978	1979	1980	Bearing	Non- bearing	Total
TOTAL WINE VARIETIES													
Alameda	1,351	76	58	96	140	43	38	78	152	36	1,802	266	2,068
Amador	461	110	120	105	36	17	3	34	154	64	852	252	1,104
Butte	---	160	201	3	---	---	---	20	---	---	364	20	384
Calaveras	44	---	2	14	2	---	---	---	---	---	62	---	62
Colusa	---	5	34	30	---	---	---	---	40	---	69	40	109
Contra Costa	811	---	2	19	---	---	33	---	73	---	865	73	938
El Dorado	25	5	58	36	34	---	6	13	16	32	164	61	225
Fresno	17,683	8,268	3,842	3,079	1,612	224	148	492	1,667	1,725	34,856	3,884	38,740
Glenn	66	41	620	70	---	---	---	---	95	93	797	188	985
Kern	13,729	10,377	7,277	2,932	597	80	166	280	1,107	1,694	35,158	3,081	38,239
Kings	570	146	441	10	---	---	9	---	36	46	1,176	82	1,258
Lake	406	293	514	530	205	89	38	95	132	62	2,175	289	2,464
Madera	9,825	5,517	7,540	1,739	84	181	373	2,203	2,951	1,548	25,259	6,702	31,961
Marin	8	4	2	---	---	---	---	---	1	285	14	286	300
Mendocino	5,585	581	671	895	418	316	395	450	474	512	8,861	1,436	10,297
Merced	7,050	2,121	1,281	460	85	123	110	568	413	1,321	11,230	2,302	13,532
Monterey	6,228	6,311	7,832	6,688	378	66	99	1,180	908	2,547	27,662	4,635	32,297
Napa	9,618	2,617	2,605	3,522	1,802	954	770	1,374	1,744	1,312	21,888	4,430	26,318
Nevada	---	---	12	---	---	---	---	---	12	---	12	12	24
Orange	---	---	71	---	---	---	---	---	---	---	71	---	71
Placer	115	1	5	---	6	---	2	---	---	---	129	---	129
Riverside	1,078	125	161	742	65	76	78	79	216	138	2,325	433	2,758
Sacramento	224	877	1,112	651	---	---	54	91	147	65	2,918	303	3,221
San Benito	4,384	---	15	11	24	---	---	93	8	24	4,434	125	4,559
San Bernardino	7,042	8	12	---	2	3	---	24	---	48	7,067	72	7,139
San Diego	119	---	---	84	22	---	---	---	---	---	225	---	225
San Joaquin	20,369	2,922	5,492	1,073	613	340	305	1,135	4,613	666	31,114	6,414	37,528
San Luis Obispo	594	700	1,179	875	119	92	486	236	314	124	4,035	674	4,709
San Mateo	3	---	---	1	2	---	---	---	---	---	6	---	6
Santa Barbara	880	941	2,478	475	52	98	65	484	1,375	171	4,989	2,030	7,019
Santa Clara	1,382	62	44	34	32	2	9	6	3	---	1,565	9	1,574
Santa Cruz	74	8	---	1	---	4	2	4	---	1	89	5	94
Shasta	---	---	22	16	---	---	---	---	---	6	38	6	44
Solano	490	44	46	533	5	10	3	27	80	28	1,131	135	1,266
Sonoma	11,491	2,244	2,730	4,156	1,487	578	1,217	1,434	1,393	1,092	23,903	3,919	27,822
Stanislaus	12,866	1,967	1,661	360	94	136	323	352	786	382	17,407	1,550	18,957
Tehama	134	37	7	53	8	---	---	---	---	50	239	50	289
Tulare	9,326	3,737	1,257	403	63	120	360	238	817	894	15,266	1,949	17,215
Ventura	---	2	5	---	---	---	---	---	---	---	7	---	7
Yolo	317	70	68	20	6	---	9	55	107	71	490	233	723
Yuba	---	---	---	---	---	13	19	30	29	150	32	209	241
TOTAL	144,348	50,377	49,477	29,816	7,993	3,555	5,120	11,105	19,863	15,187	290,686	46,155	336,841

TABLE 11. ALL GRAPES (excluding rootstock): Acreage; bearing, nonbearing, and total, by type, by county, California, 1980--continued

County	WINE TYPE			ALL GRAPES		
	Bearing	Non-bearing	Total	Bearing	Non-bearing	Total
	----- Acres -----			----- Acres -----		
Alameda	1,802	266	2,068	1,802	266	2,068
Alpine	---	---	---	---	---	---
Amador	852	252	1,104	867	252	1,119
Butte	364	20	384	409	20	429
Calaveras	62	---	62	62	---	62
Colusa	69	40	109	69	40	109
Contra Costa	865	73	938	887	73	960
Del Norte	---	---	---	---	---	---
El Dorado	164	61	225	166	61	227
Fresno	34,856	3,884	38,740	186,994	18,328	205,322
Glenn	797	188	985	797	188	985
Humboldt	---	---	---	---	---	---
Imperial	---	---	---	---	---	---
Inyo	---	---	---	---	---	---
Kern	35,158	3,081	38,239	68,341	10,418	78,759
Kings	1,176	82	1,258	3,308	332	3,640
Lake	2,175	289	2,464	2,175	289	2,464
Lassen	---	---	---	---	---	---
Los Angeles	---	---	---	---	---	---
Madera	25,259	6,702	31,961	56,259	12,603	68,862
Marin	14	286	300	14	286	300
Mariposa	---	---	---	---	---	---
Mendocino	8,861	1,436	10,297	8,863	1,436	10,299
Merced	11,230	2,302	13,532	14,130	2,836	16,966
Modoc	---	---	---	---	---	---
Mono	---	---	---	---	---	---
Monterey	27,602	4,635	32,237	27,602	4,635	32,237
Napa	21,888	4,430	26,318	21,898	4,430	26,328
Nevada	12	12	24	12	12	24
Orange	71	---	71	71	---	71
Placer	129	---	129	131	---	131
Plumas	---	---	---	---	---	---
Riverside	2,325	433	2,758	10,557	3,275	13,832
Sacramento	2,918	303	3,221	2,986	303	3,289
San Benito	4,434	125	4,559	4,434	125	4,559
San Bernardino	7,067	72	7,139	7,237	72	7,309
San Diego	225	---	225	239	---	239
San Francisco	---	---	---	---	---	---
San Joaquin	31,114	6,414	37,528	49,170	6,900	56,070
San Luis Obispo	4,035	674	4,709	4,035	674	4,709
San Mateo	6	---	6	6	---	6
Santa Barbara	4,989	2,030	7,019	4,989	2,050	7,039
Santa Clara	1,565	9	1,574	1,566	9	1,575
Santa Cruz	89	5	94	89	5	94
Shasta	38	6	44	38	6	44
Sierra	---	---	---	---	---	---
Siskiyou	---	---	---	---	---	---
Solano	1,131	135	1,266	1,131	135	1,266
Sonoma	23,903	3,919	27,822	23,928	3,919	27,847
Stanislaus	17,407	1,550	18,957	20,531	1,568	22,099
Sutter	---	---	---	---	---	---
Tehama	239	50	289	242	50	292
Trinity	---	---	---	---	---	---
Tulare	15,266	1,949	17,215	70,060	10,346	80,406
Tuolumne	---	---	---	---	---	---
Ventura	7	---	7	7	---	7
Yolo	490	233	723	490	233	723
Yuba	32	209	241	38	214	252
STATE TOTAL	290,686	46,155	336,841	596,630	86,389	683,019

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

---

4228 Petaluma Blvd. N., Petaluma, CA 94952

February 24, 1982

Chief Regulations and Procedures  
BAT&F  
P O Box 385  
Washington, D.C. 20044

Gentlemen:

There are many geological and geographical similarities between Marin, Sonoma and Napa counties. That is, each county has parts of the same geologic formation and similar geographical land forms. There are also many vegetative and climatic similarities.

Most importantly, there are a number of soils that are common to the three counties mentioned above. These soils developed on a common geology generally indicate climatic similarities.

Sincerely,



LYNN BRITTAN  
District Conservationist

EXHIBIT B



Winkler, A.J., J.A. Cook, W.M. Lliwer, and L.A. Lider  
1974 General Viticulture, pns. 64-66

EXHIBIT C1-3

*Climate and Soils*

IV, 3,501 to 4,000 degree-days; and V, 4,001 or more degree-days. Some characteristics of the climatic regions in California and their adaptation to important wine-producing localities follow. For further information on the location of the different climatic regions in California see figure 12. Typical and potential wine producing locations and their heat summation as degree days for California along with a few well-known foreign areas are shown in table 3.

TABLE 3  
HEAT SUMMATION AS DEGREE-DAYS ABOVE 50° F. FOR THE PERIOD  
APRIL 1 TO OCTOBER 31 AT VARIOUS COUNTY LOCATIONS  
IN CALIFORNIA AND A FEW FOREIGN LOCATIONS

<i>Station and county or country</i>	<i>Heat summation</i>	<i>Station and county or country</i>	<i>Heat summation</i>
<i>Climatic Region I locations</i>			
Trier, Germany	1700 *	Woodside, San Mateo	2320
Geisenheim, Germany	1790 *	Nevada City, Nevada	2320
Brancomb, Humboldt	1810	Santa Cruz, Santa Cruz	2320
Reims, France	1820 *	Gonzales, Monterey	2350
Lompoc, Santa Barbara	1970	Hegglalya, Hungary	2360 †
Salem, Oregon	2030	Hayward, Alameda	2370
Weitchpec, Trinity	2080	Betteravia, Santa Barbara	2370
Watsonville, Santa Cruz	2090	Peachland, Sonoma	2380
Bonny Doon, Santa Cruz	2140	Ben Lomond, Santa Cruz	2390
Campbell, Santa Clara	2160	Bordeaux, France	2390 *
Coonawarra, Australia	2170 <sup>w</sup>	Geneva, New York	2400
Aptos, Santa Cruz	2190	Cuyamaca, San Diego	2410
Wrights, Santa Clara	2220	Anderson Valley High School, Mendocino	2400
Roseburg, Oregon	2220	Eric, Pennsylvania	2450
Blocksburg, Humboldt	2230	Santa Maria, Santa Barbara	2490
Idlewilde, Riverside	2240	El Gavlin V'd., San Benito	2480
Geneva, Switzerland	2260 <sup>n</sup>		
Beaune, France	2300 *		
<i>Climatic Region II locations</i>			
Willits, Mendocino	2520	Grass Valley, Nevada	2830
Aukland, New Zealand	2540 <sup>n</sup>	Crocket, Contra Costa	2840
Santa Clara, Santa Clara	2550	Ankara, Turkey	2840 <sup>n</sup>
Weaverville, Trinity	2550	Atascadero, San Luis Obispo	2870
Sunnyside, Washington	2570	Redwood City, San Mateo	2870
Odessa, Russia	2580 *	Soledad, Monterey	2880 †
Budapest, Hungary	2570 <sup>n</sup>	Napa, Napa	2880
Palo Alto, San Mateo	2590		

EXHIBIT C I



65  
Climate and Soils

TABLE 3 (Continued)

<i>Station and county or country</i>	<i>Heat summation</i>	<i>Station and county or country</i>	<i>Heat summation</i>
Yakima, Washington	2600	Santa Barbara, Santa Barbara	2820
San Luis Obispo, San Luis Obispo	2620	Los Gatos, Santa Clara	2880
Gilroy, Santa Clara	2630	San Mateo, San Mateo	2880
Sebastopol, Sonoma	2630	Hollister, San Benito	2890
Grants Pass, Oregon	2680	Monte Rosso Vd., Sonoma	2900
Covelo, Mendocino	2710	Asti, Italy	2930 †
Santiago, Chile	2710 <sup>N</sup>	Kelseyville, Lake	2930
Hulville, Sonoma	2720	Santa Rosa, Sonoma	2950
Petaluma, Sonoma	2740	Sonoma, Sonoma	2950
Dyerville, Humboldt	2750	Bucharest, Romania	2960 <sup>N</sup>
Melbourne, Australia	2750 <sup>N</sup>	Placerville, El Dorado	2980
San Jose, Santa Clara	2760	Novorossisk, Russia	2990 <sup>*</sup>
<i>Climatic Region III locations</i>			
Oakville, Napa	3100 †	Milan, Italy	3310 <sup>N</sup>
Okiah, Mendocino	3100	Pinnacles, San Benito	3330
Upper Lake, Lake	3100	Cuyama, Santa Barbara	3340
Paso Robles, San Luis Obispo	3100	Santa Ana, Orange	3360
Calistoga, Napa	3150	Tibilis, Russia	3370 <sup>*</sup>
King City, Monterey	3150	Jamestown, Tuolumne	3400
Hopland, Mendocino	3150 †	Camino, El Dorado	3400
Astrakhan, Russia	3160 <sup>*</sup>	Queretaro, Mexico	3400 † †
St. Helena, Napa	3170	Mokelumne Hill, Calaveras	3400
Santa Margarita, San Luis Obispo	3180	Livermore, Alameda	3400
Healdsburg, Sonoma	3190	Potter Valley, Mendocino	3420
Poway, San Diego	3220	Cloverdale, Sonoma	3430
Clear Lake Park, Lake	3260	Ramona, San Diego	3470
North Fork, Madera	3260	Mandeville Island, San Joaquin	3480
Hamadani, Iran	3280 <sup>D</sup>		
<i>Climatic Region IV locations</i>			
Martinez, Contra Costa	3500	Gallo Vd., Merced	3740
Escondido, San Diego	3510	Nacimiento, San Luis Obispo	3740
Upland, San Bernardino	3520	Davis, Yolo	3780
Suisun, Solano	3530	Vacaville, Solano	3780
Florence, Italy	3530 <sup>N</sup>		

EXHIBIT C2

66  
Climate and Soils

TABLE 3 (Continued)

Station and county or country	Heat summation	Station and county or country	Heat summation
Colfax, Placer	3530	Sidney, Australia	3780 <sup>N</sup>
Venice, Italy	3530	Sacramento, Sacramento	3830
Sao Paulo, Brazil	3540 <sup>N</sup>	Delta, Shasta	3850
Tutlock, Stanislaus	3600	Clarksburg, Yolo	3860
Linden, San Joaquin	3620	Sonora, Tuolumne	3880
Mendoza, Argentina	3640 <sup>**</sup>	San Miguel, San Luis Obispo	3890
Yuba, San Diego	3660	Aguascaltecas, Mexico	3900 <sup>+ +</sup>
Beek, Stanislaus	3676 <sup>G</sup>	Fontana, San Bernardino	3900
Pomona, Los Angeles	3680	Auburn, Placer	3990
Lodi, San Joaquin	3720		
Capetown, South Africa	3720 <sup>N</sup>		
<i>Climatic Region V locations</i>			
Ojai, Ventura	4010	Shiraz, Iran	4390 <sup>D</sup>
Modesto, Stanislaus	4010	Reedley, Tulare	4410 <sup>↓</sup>
Perth, Australia	4020 <sup>N</sup>	Merced, Merced	4430
Oakdale, Stanislaus	4030	Chico, Butte	4450
Split, Yugoslavia	4090 <sup>N</sup>	Fresno, Fresno	4680
Brentwood, Contra Costa	4100	Red Bluff, Tehama	4930
Palermo, Italy	4100	Bakersfield, Kern	5080
Stockton, San Joaquin	4160	Algeria, Algiers	5200 <sup>↓</sup>
Antioch, Contra Costa	4200	Tehran, Iran	5210 <sup>N</sup>
Woodland, Yolo	4210	Terreon, Mexico	5900 <sup>↓ +</sup>
Peking, China	4290 <sup>N</sup>		

SOURCE OF DATA: Climatological Data Reports, U.S. Weather Bureau;

\* Prescott (1965); \*\*, Eggenberger (1971); †, U.S. Trade Consuls; ††, Mr. M. Ibarra; ‡, Department of Viticulture and Enology Stations; N, Nelson (1968); W, Wynn (1968); D, Development and Resources Corp., Sacramento, California; G, Grape Improvement Association.

*Region I.*—This region contains restricted areas of fertile soils. As a rule, hillside slopes and valley areas of moderate productivity are available for vines. The early maturing premium-quality dry table wine varieties attain their best development here. Heavy-bearing varieties should not be planted, since their production cannot compete with that of warmer districts with more fertile soils.

*Region II.*—An area of great importance. The valleys can produce most of the premium-quality and good standard white and red table wines of

EXHIBIT C3

DEGREE DAYS ABOVE 50°

Hamilton Field - Marin County  
April 1 - October 31 in the 17 Year Period - 1936-1952\*

<u>Month</u>	<u>Monthly Mean Temperature</u>	<u>Days in Month</u>	<u>Degree Days Over 50°</u>
April	56.4	30	192
May	60.2	31	316
June	64.4	30	432
July	66.3	31	505
August	65.8	31	490
September	65.7	30	471
October	60.6	31	328

Total Degree Days Over 50° 2734

\* While these figures are not as recent as they could be, I feel they are valid because of the measurement period.

MONTHLY MEAN TEMPERATURES AT VARIOUS LOCATIONS

	Kentfield 1931-1952	San Rafael 1948-1952	Marin County Hamilton Field 1936-1952	Petaluma* 1930-1952	Pt. Reyes 1880-1930
JANUARY	46.4	47.0	46.3	46.7	49.5
FEBRUARY	49.8	50.1	49.9	50.0	50.2
MARCH	52.9	53.3	53.1	53.1	50.4
APRIL	56.5	57.4	56.4	55.7	50.9
MAY	60.1	61.1	60.2	59.6	51.3
JUNE	64.1	64.2	64.4	63.8	52.7
JULY	65.9	66.0	66.3	66.3	53.6
AUGUST	65.2	66.3	65.8	66.1	54.4
SEPTEMBER	65.1	66.9	65.7	65.9	56.3
OCTOBER	60.1	62.2	60.6	61.3	55.6
NOVEMBER	52.6	56.6	53.4	53.7	54.3
DECEMBER	47.7	49.1	48.2	48.2	50.9
ANNUAL	57.2	58.3			52.5

\* Sonoma  
County

Annual  
Average  
Days

2661

2853

2734

2724

757

TABLE 3

Climatic Region I

Peachland, Sonoma	2380
Anderson Valley High School, Mendocino	2400

Region II

Willits, Mendocino	2520
Napa, Napa	2880
Sebastapol, Sonoma	2680
Covelo, Mendocino	2710
Petaluma, Sonoma	2740
Kelseyville, Lake	2930
Santa Rosa, Sonoma	2950
Sonoma, Sonoma	2950
<u>Pacheco Ranch, Marin</u>	2734

Region III

Oakville, Napa	3100
Ukiah, Mendocino	3100
Upperlake, Lake	3100
Calistoga, Napa	3150
St. Helena, Napa	3170
Cloverdale, Sonoma	3430

Region IV

Suisun, Solano	3530
Vacaville, Solano	3780

TAKEN FROM: A.J. Winkler, J.A. Cook, W.M. Liewer and  
 L.A. Lider 1974 General Viticulture,  
 pgs. 64-66.

# COOPERATIVE EXTENSION

UNIVERSITY OF CALIFORNIA  
MARIN COUNTY

ROOM 422  
MARIN COUNTY CIVIC CENTER  
SAN RAFAEL, CALIFORNIA 94903  
PHONE: ~~479X X XXX.XXXX.XXX~~  
499-6352

February 23, 1982

Chief of Regulations & Procedures  
Bureau of Alcohol, Tobacco & Firearms  
Box 385  
Washington, D.C.

Dear Sir:

At the request of Mr. Herbert Rowland of Pacheco Ranch in Novato, California, I have been looking for printed material which would positively place Marin County in the North Coast area of California. Everyone I have talked to agrees with me that everything north of the Golden Gate inland to the crest of the Coast Range has been traditionally considered North Coast. The vegetation is North Coast (Redwoods, Douglas Fir, Bishop Pine, etc.) The climate is most similar to North Coast. The topography is like North Coast. Fish and Game apparently consider Marin to be North Coast.

Lynn Britton of the U.S. Soil Conservation Service has told me that they consider us to be part of the North Coast group of counties.

In all the ways I can think of we're a lot more like Mendocino or Sonoma than we are Monterey or San Luis Obispo counties that are considered Central Coast. The Assistant Agricultural Commissioner, Phil Economon, agrees with me, but has no documentation that "proves" Marin is North Coast. I think we have much more in common with North Coast counties than Solano County has.

I hope your Bureau will place Marin County grape growers in the North Coast area.

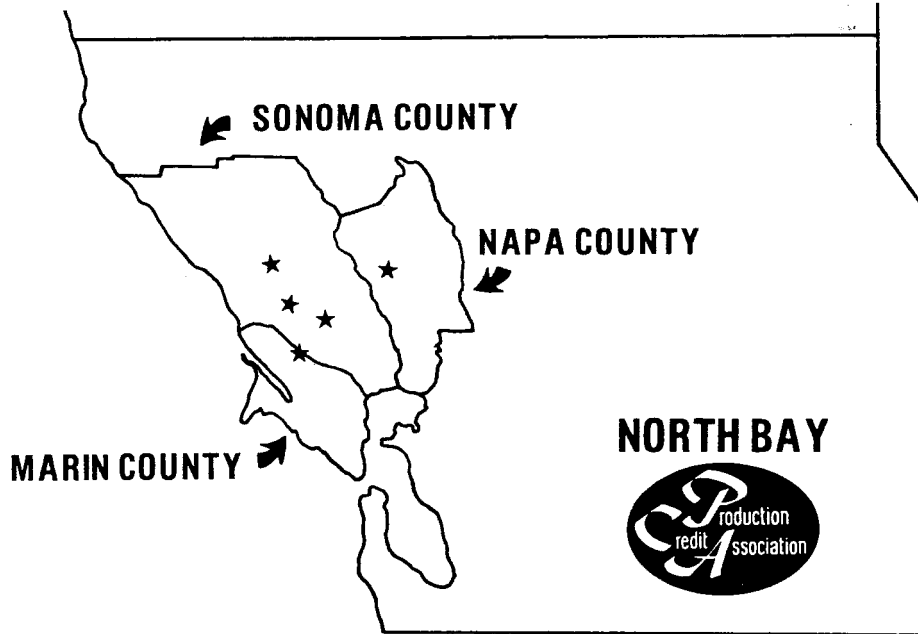
Sincerely,

*Don Brittsan*  
Don Brittsan  
County Director  
Marin County

mk

EXHIBIT F

# TERRITORIES SERVED



★ LOCATION OF BRANCH OFFICES

## ADMINISTRATIVE

**HOWARD H. CARPENTER**  
President

**JOHN A. RERECICH**  
Vice President

4829 Old Redwood Hwy.  
Santa Rosa, CA 95401  
(707) 545-4245

## SANTA ROSA BRANCH

**BRUCE L. RICHARDSON**  
Branch Manager

4825 Old Redwood Hwy.  
Santa Rosa, CA 95401  
(707) 545-0512

## ST. HELENA BRANCH

**JEFFREY D. KANTER**  
Branch Manager

1101 Vintage St.  
St. Helena, CA 94574  
(707) 963-9437

## PETALUMA BRANCH

**ROBERT E. MILBOURN**  
Branch Manager

331 Lakeville St.  
Petaluma, CA 94952  
(707) 763-9821

## HEALDSBURG BRANCH

**LINDSAY P. WURLITZER**  
Branch Manager

706 Healdsburg Ave.  
Healdsburg, CA 95448  
(707) 433-3382

## SONOMA BRANCH

**MARK STORNETTA**  
Branch Manager

593 Fifth St. West  
Sonoma, CA 95476  
(707) 996-4144

# EXHIBIT G

REGULATIONS OF THE DIRECTOR OF FOOD AND AGRICULTURE  
Pertaining to Grape Pricing Districts  
Effective August 12, 1979

California Administrative Code

Title 3

Chapter 3

Subchapter 2. Grape Crush Reporting

Article 1. Reports by Grape Processors

1700. Grape Pricing Districts. Every processor who crushes grapes in California shall report the information required by Section 55601.5 of the Food and Agricultural Code to the Director, for each grape pricing district, as follows:

District 1 - Mendocino County

District 2 - Lake County

District 3 - Sonoma and Marin Counties

District 4 - Napa County

District 5 - Solano County

District 6 - Alameda, Contra Costa, Santa Clara, San Francisco, San Mateo, and Santa Cruz Counties

District 7 - Monterey and San Benito Counties

District 8 - San Luis Obispo, Santa Barbara and Ventura Counties

District 9 - Del Norte, Siskiyou, Modoc, Humboldt, Trinity, Shasta, Lassen, Tehama, Plumas, Glenn, Butte, Colusa, Sutter, Yuba, Sierra, Yolo and Sacramento Counties

District 10 - Nevada, Placer, El Dorado, Amador, Calaveras, Tuolumne and Mariposa Counties

District 11 - San Joaquin County north of State Highway 4

District 12 - San Joaquin County south of State Highway 4; Stanislaus and Merced Counties

District 13 - Madera, Fresno, Alpine, Mono, Inyo Counties; and Kings and Tulare Counties north of Nevada Avenue (Avenue 192)

District 14 - Kings and Tulare Counties south of Nevada Avenue (Avenue 192); and Kern County

District 15 - Los Angeles and San Bernardino Counties

District 16 - Orange, Riverside, San Diego and Imperial Counties

NOTE: Authority: Section 407 of the Food and Agricultural Code

Reference: Section 55601.5 of the Food and Agricultural Code

EXHIBIT H



Rec'd.  
5-17-82  
pan

STEPHENS & WILLIAMS

ATTORNEYS AT LAW  
201 NORTH STATE STREET  
P. O. BOX 883  
UKIAH, CA 95482

TELEPHONE  
(707) 462-1996

PANO STEPHENS  
BURGESS WILLIAMS

May 6, 1982

# ~~300~~  
417

Charles N. Bacon  
Regulations and Procedures Division  
Department of the Treasury  
Bureau of Alcohol, Tobacco & Firearms  
U. S. Federal Building, Room 6226  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20226

RE: Petition of North Coast Grape Growers  
Association for Establishment of  
Viticultural Area

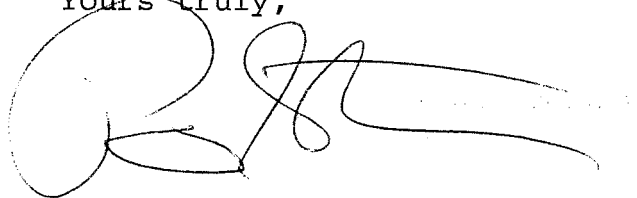
Dear Mr. Bacon:

In recent telephone conversations with you it has been indicated that BATF intends to reopen the public hearings in the above matter for an additional thirty days. On behalf of the North Coast Grape Growers Association we wish to advise of our objection to this procedure, and we wish to again request that the Bureau act on our petition in accordance with criteria the BATF has established and published, rather than permitting procedures which create different viticulture areas that have not complied with the petition process and applicable regulations.

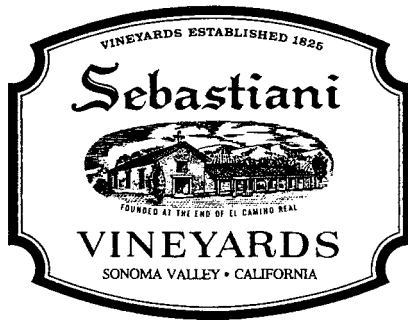
Not only are we concerned that BATF appears to be disregarding the overwhelming evidence in support of our petition in this case, we are becoming increasingly concerned over the manner in which that petition has been modified and expanded to include non-petitioners. And we are becoming increasingly concerned over BATF's utilization of unascertainable procedures in processing this matter to conclusion. Before this process gets entirely out of hand, we respectfully request that BATF issue its decision on the original petition on the basis of the concluded hearings and the materials already received by it.

Thank you for your consideration.

Yours truly,



Pano Stephens  
sh  
cc: NCGGA



~~34~~  
#418

May 20, 1982

Chief, Regulations & Procedures Division  
Bureau of Alcohol, Tobacco, & Firearms  
P. O. Box 385  
Washington, D.C. 20044

Attention: Notice No. 404

Subject: North Coast Appellation

Dear Sirs:

We are aware that the comment period for North Coast expired February 24, 1982. We are also aware that you have not yet commented on a final regulation regarding the North Coast. It is getting very close to crush, and we need to made some decisions regarding grape purchases right now.


Sebastiani Vineyards would also reiterate its position that the very small sliver of Solano County which is proposed to be included in the North Coast appellation continue to be included in that appellation. This small area grows grapes which are of similar quality to grapes grown in Sonoma, Napa, and parts of Mendocino County and has the same basic climatic situations, and wind situations, and soil situations which exist in the other North Coast Counties.

The testimony has all been given, and I am sure given to excess. It is our believe that based on the testimony any decision which would exclude this small sliver of Solano County from the North Coast would be a severe miscarriage of justice and would penalize the growers and the wineries who have been making premium wines from this area in an extremely unjust fashion.

We continue to urge you to come to a conclusion on this rule making process, so that the growers and wineries can get back to the business of creating excellent North Coast wines.

Very truly yours,

SEBASTIANI VINEYARDS



Jim Carter  
Winemaker  
JC/gc

cc: Doug Davis  
John Savage



# VINCAP, INC.

---

Chief Regulations and Procedures Divisions  
Bureau of Alcohol, Tobacco and Firearms  
P.O. Box 385  
Washington, D.C. 2004-0385

February 19, 1982

Re: California North Coast Viticultural Designation (Notice 404)

Dear Sir:

Concerning the admission of Southwestern Solano County (Suisun and Green Valleys) into the "North Coast" viticultural area, I would like to make a few comments:

First, our firm is planning a 60,000 case winery in the Wooden Valley area of Napa County, just across the county line from Suisun and Green Valleys. We would very much like to use grapes grown in the Suisun and Green Valleys of Solano County to supplement our Napa Valley wines. The primary concern, affecting our decision on whether or not we will utilize wine grapes from Suisun and Green Valleys, is if we will be able to use the "North Coast" label designation. We are convinced that the wine grapes grown in the Suisun and Green Valleys are of comparable quality to grapes from adjacent Napa County.

I would also like to mention that I am a third generation wine grape grower in the Napa Valley. During the past 60 years, my family has also farmed in the Suisun and Green Valleys of Solano County. Except during prohibition, wine grapes grown in Suisun and Green Valleys by my family have, for the most part, gone to Napa Valley wineries. Prior to concerns over label designations and appellations of origin (but within Federal and State guidelines), many of these grapes delivered to the Napa wineries were routinely mixed with grapes from throughout Napa County. Obviously, these wineries considered grapes grown in Suisun and Green Valleys of comparable quality to Napa County grapes of like variety.

February 19, 1982

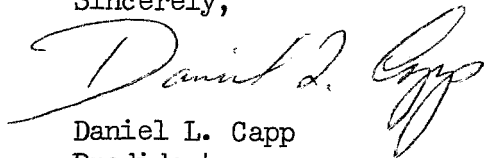
A fair amount of past and present literature (e.g., Bulletin 1875 University of California) classifies the North Bay (San Francisco) grape growing region as including Napa, Solano, Sonoma, Medocino, Marin and Lake Counties. Also, early promotional literature from such organizations as "The Wine Advisory Board" refer to the Napa-Solano grape growing district. One has only to look at a map of Napa and Solano Counties to see that Suisun and Green Valleys are contiguous with Southeastern Napa County and share similar soils and climates.

Historically, Napa and Southwestern Solano Counties have both contributed to this areas reputation for producing fine wines. But, because Napa County produces the majority of the areas grapes and contains most of the areas wineries, it has rightfully received virtually all of the credit and acclaim for producing the areas most outstanding wines. However, just because it has always been in the shadow of Napa County and contributes a relatively small percentage of the areas grapes, that is not reason enough to exclude Southwestern Solano County from the North Coast Grape Growing District.

I can only surmise as to why individuals or organizations would voice displeasure over admission of Southwestern Solano County into the North Coast Grape Growing District. I would hope their concern and opposition is due to a lack of factual knowledge on their part and not based on personal profit.

As indicated above, I am a Napa Valley grape grower and I am in complete agreement with the A.T.F. amendment of the proposed boundary for the North Coast (Notice 404).

Sincerely,



Daniel L. Capp  
Predident

349

*Napa Valley* GRAPE GROWERS ASSOCIATION



4075 SOLANO AVENUE -- NAPA, CALIFORNIA 94558

Phone 707-944-8311

~~707-226-6074~~  
224-5403

February 23, 1982

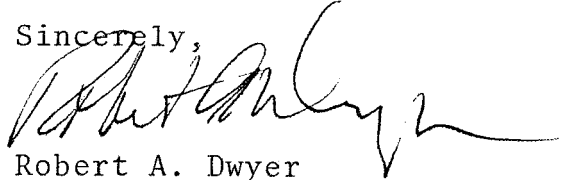
Chief, Regulations and Procedures Division  
Bureau of Alcohol, Tobacco and Firearms  
P.O. Box 385  
Washington, D.C. 20044-0385

Dear Sir:

The Napa Valley Grape Growers Association Board of Directors supports the Bureau of Alcohol, Tobacco and Firearms proposed rulemaking on the proposed North Coast Viticultural Area approved on December 23, 1981.

Notice No. 404, amending the proposed boundary of the proposed North Coast Viticultural Area, clearly establishes a case for the amended area boundary. The proposed rulemaking is consistent with the viticultural area criteria outlined in 27 CFR 4.25a(e) and is consistent with the earlier viticultural area decisions made in California.

The Board of Directors commends Mr. Thomas Minton on his documentation and drafting of Notice No. 404, and fully supports the proposed rulemaking contained in the notice.

Sincerely,  
  
Robert A. Dwyer  
Executive Director

RAD:sls

345

United Vintners Inc.  
601 Fourth Street | San Francisco, California 94107

February 23, 1982

Chief, Regulations and Procedures Division  
Bureau of Alcohol, Tobacco and Firearms  
P.O. Box 385  
Washington, D.C. 20044-0385

Re: Notice No. 404

Gentlemen:

The purpose of this letter is to notify you that United Vintners, Inc., fully supports and endorses the Bureau's "New Proposal" outlined in your Notice No. 404 amending the proposed boundary of the proposed North Coast Viticultural delineated in Notice No. 360. It is our understanding that the amended boundaries now include the grape growing areas of the western portion of Lake County and the southwestern portion of Solano County.

United Vintners believes that the geographical boundaries outlined in Notice No. 404 are correct and appropriate, and that this area be approved for the North Coast Viticultural Appellation.

Sincerely,

  
William J. Uren



WINES GROUP



February 23, 1982

Chief, Regulations & Procedures Division  
Bureau of Alcohol, Tobacco, and Firearms  
P. O. Box 385  
Washington, D.C. 20044

RE: Notice #404

Dear Sirs:

Sebastiani Vineyards supports the new proposed regulation (Notice #404) which defines the North Coast viticultural region as Sonoma County, and portions of Napa, Mendocino, Solano and Lake Counties.

Thank you very much for the opportunity to comment.

Very truly yours,

SEBASTIANI VINEYARDS

A handwritten signature in dark ink, appearing to read "J T Carter". The signature is fluid and cursive, written over the typed name below.

Jim T. Carter  
Winemaker

JC/pmj

cc: Sam Sebastiani  
Doug Davis  
Billy Piersol