

# **WATER TEMPERATURES OF CALIFORNIA STREAMS**

## **SAN FRANCISCO BAY SUBREGION**



OPEN—FILE REPORT

**U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**Water Resources Division**

**Menlo Park, California, 1971**

Prepared in cooperation with the  
CALIFORNIA DEPARTMENT OF WATER RESOURCES

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
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By

J. C. Blodgett

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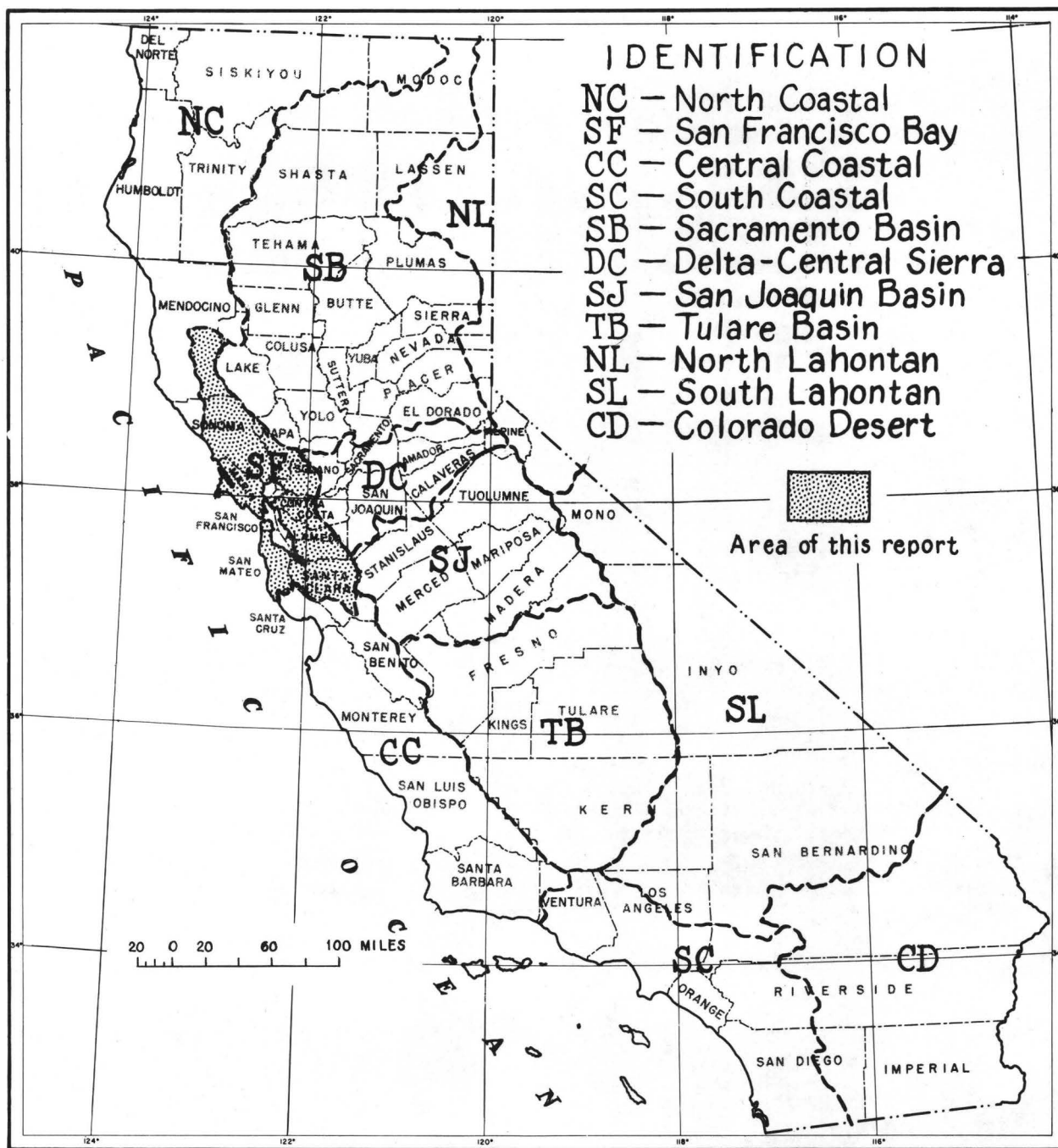


FIGURE 1.—Hydrologic subregions of California.

## WATER TEMPERATURES OF CALIFORNIA STREAMS, SAN FRANCISCO BAY SUBREGION

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By J. C. Blodgett

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### ABSTRACT

A summary of water-temperature records is presented for data collected through September 1968 in the San Francisco Bay Subregion of California. This report is one of a series covering the 11 hydrologic subregions of the State and includes data for 87 stream sites.

Water temperatures, in degrees Celsius, are summarized by months, years, and for the period of record. A description is included to identify each station where data were collected. A tolerance interval analysis indicates that 99 percent of the point water-temperature observations, determined either with thermograph probes or hand-held thermometers, should be within  $\pm 0.6^{\circ}\text{C}$  of the mean water temperature at the 95-percent confidence level. The probable total error ranges from  $\pm 0.8^{\circ}\text{C}$  for periodic data to  $\pm 1.4^{\circ}\text{C}$  for thermograph data.

### INTRODUCTION

Water-temperature records collected through September 1968 are summarized for 87 stream sites in the San Francisco Bay Subregion of California. This report is one of a series which will present a compilation of stream temperatures for each of the 11 hydrologic subregions of the State (fig. 1) as defined by the California Region Framework Study Committee (1968).

Temperature records have been compiled for all stations operated by the Geological Survey and also for many sites where data were collected by other Federal and State agencies. Temperature data obtained systematically either once or twice per day or by thermograph for stations operated by the Geological Survey are published annually. Some periodic temperature observations (those obtained infrequently) collected by the Survey, as well as most of the thermograph and periodic records collected by other agencies, have never been published.

This report presents current and historic stream temperatures for purposes of correlating periodic and thermograph records and for analysis of the factors affecting these temperatures. The summary data for each site may also be used to provide guidelines for the establishment of thermal standards used in water-quality management.

Through the 1968 water year, temperature summaries of periodic observations are presented for 87 sites, with durations up to 19 years. Summaries of continuous records are presented for 18 sites (both periodic and continuous records are available at some sites). The first continuous water-

temperature records were collected in 1952. Presently, continuous-temperature records are being collected by the Survey at 16 sites in the San Francisco Bay Subregion. The data are summarized in degrees Celsius (centigrade), and a graph (fig. 2) is provided for conversion to degrees Fahrenheit.

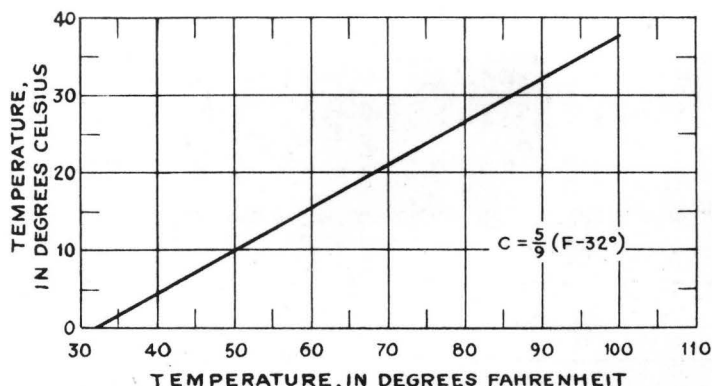


Figure 2.--Temperature conversion relation.

This report was prepared by the Geological Survey, Water Resources Division, in cooperation with the California Department of Water Resources, as a part of investigations of the water resources of the State of California. The project is under the general supervision of R. Stanley Lord, district chief in charge of water-resources investigations in California, and under

the immediate supervision of Willard W. Dean, chief of the Sacramento subdistrict office. A. E. Janssen scheduled the data for computer processing; computer programs for this study were prepared by Louise Nichols. The illustrations were prepared by M. E. Royce and F. A. Shelton. Water-temperature data provided by personnel of the California Department of Water Resources, Santa Clara Valley Water Conservation District, East Bay Municipal Utility District, and Marin County Water District are gratefully acknowledged.

#### DATA-COLLECTION METHODS

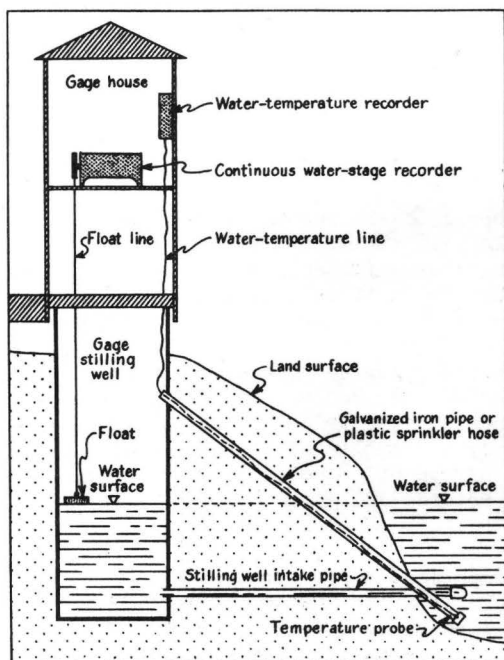


Figure 3.--Sketch of typical gaging station where both stage and water temperature are recorded.

Periodic observations of water temperature are obtained by holding a thermometer in the stream and reading it while the bulb end is immersed. At thermograph sites, the thermometer is held in the water near the thermograph probe (the temperature-sensing element of the thermograph).

In order to reduce the possibility of collecting erroneous or biased data, temperature stations are carefully selected and frequent inspections of the site are made. Where thermographs are housed in water-stage recorder shelters (fig. 3), the probe is placed inside a pipe located separately from the water-stage inlet pipes. Separate inlets are necessary to avoid sharp bends in the thermograph tube as well as to prevent obstruction of water movement in the intake pipe between the stream and gage well. Incorrect water temperatures may result if the probe is covered with silt, sand, or gravel, or if it is exposed to the air during periods of low flow.

Water-temperature collection sites are generally located far enough downstream from tributary inflow to insure that waters from the two streams are completely mixed. During snowmelt periods, stream-temperature errors may range from 1.7°C to 5°C at sites placed too close to the confluence of tributaries (Moore, 1967). Seasonal errors of this type may go undetected.

## DATA ACCURACY

Temperature-recording instruments are subject to mechanical error. According to manufacturers' specifications for instruments in good operating condition, the Stevens thermograph is accurate to  $\pm 2^{\circ}\text{F}$  (about  $\pm 1^{\circ}\text{C}$ ) and the Weksler thermograph to  $\pm 1^{\circ}\text{F}$  (about  $\pm 0.6^{\circ}\text{C}$ ).

The setting of the thermograph and corrections to the record are based on water-temperature readings obtained by hand-held thermometers of a type that, according to manufacturers' specifications, generally are accurate to 1 or 2 scale divisions [ $\pm 0.5^{\circ}\text{F}$  (about  $\pm 0.3^{\circ}\text{C}$ ) to  $\pm 1^{\circ}\text{F}$  (about  $\pm 0.6^{\circ}\text{C}$ )].

Jones (1965) studied the relation between the average temperature of the stream and the point temperature obtained at the thermograph probe. Results of the study showed for the 24 thermograph installations on streams in California checked and 180 temperature traverses (cross sections surveyed at different flow conditions) there were only 11 instances when the probe temperature differed from the average stream temperature by more than  $1^{\circ}\text{F}$ . Differences between point water temperatures in a cross section and the mean stream temperature were minimal for the 180 traverses surveyed. The temperature extremes in the cross sections differed by an average of  $\pm 0.15^{\circ}\text{F}$  from the mean. A measure of the ability of point observations (both hand-held thermometer readings and thermograph probes) to indicate the mean water temperature of a stream is given by the tolerance interval derived using the 180 water-temperature traverses. On the basis of this sample, an analysis of the tolerance interval indicates that 99 percent of the point water-temperature observations should be within  $\pm 1.1^{\circ}\text{F}$  ( $\pm 0.6^{\circ}\text{C}$ ) of the mean stream temperature at the 95-percent confidence level.

The accuracy with which the mean temperature of a stream is determined (at a given instant in time) depends on the magnitude of the various sources of error. The probable inaccuracies resulting from the sum of instrumental and thermometer placement errors should be less than:

1.  $\pm 2.5^{\circ}\text{F}$  ( $\pm 1.4^{\circ}\text{C}$ ) for data obtained from Stevens thermographs.
2.  $\pm 1.8^{\circ}\text{F}$  ( $\pm 1.0^{\circ}\text{C}$ ) for data obtained from Weksler thermographs.
3.  $\pm 1.5^{\circ}\text{F}$  ( $\pm 0.8^{\circ}\text{C}$ ) for periodic data collected with hand-held thermometers.

## DATA CHARACTERISTICS

Mean monthly water temperatures for January and August (the months that usually include the minimum and maximum temperatures during the year) and the recorded extremes for each of the temperature stations in the San Francisco Bay Subregion, are presented in table 1.

Confidence limits at the 95-percent level of the monthly means for January and August have been determined for stations with at least 3 years of thermograph record. The confidence interval of the monthly mean was not determined for stations with once or twice-daily observations or periodic data because the number of observations are generally insufficient to evaluate monthly means on an annual basis. Further, periodic data are biased because nearly all water-temperature observations are obtained between the hours of 0800 and 1700 and most diurnal fluctuations are not measured. At some stations, both periodic and thermograph water temperatures are measured.

Table 1.--Summary of January and August water temperatures  
for period of record

| Station<br>number | Temperature, in °C |              |                 |   |                 |   |
|-------------------|--------------------|--------------|-----------------|---|-----------------|---|
|                   | Extremes           |              | January         |   | August          |   |
|                   | Mini-<br>mum       | Maxi-<br>mum | Monthly<br>mean | 95-percent<br>probability<br>confidence<br>interval | Monthly<br>mean | 95-percent<br>probability<br>confidence<br>interval |
| 11-1625           | 0                  | 22           | 7               | 1.4   | 17              | 1.4   |
| 1625.4            | 6                  | 20           | 9               | --  | 15              | --  |
| 1626              | 5                  | 17           | 9               | --  | 14              | --  |
| 1626.3            | 8                  | 21           | --              | --  | --              | --  |
| 1627.2            | 6                  | 26           | 10              | --  | 22              | --  |
| 1627.22           | 8                  | 21           | 13              | --  | 19              | --  |
| 1628              | 4                  | 21           | 9               | --  | 19              | --  |
| 1629              | 6                  | 27           | --              | --  | 24              | --  |
| 1629.4            | 4                  | 20           | 7               | --  | 18              | --  |
| 1629.5            | 11                 | 28           | --              | --  | --              | --  |
| 1632              | 1                  | 21           | --              | --  | --              | --  |
| 1645              | 2                  | 21           | 9               | --  | 19              | --  |
| 1660              | 1                  | 29           | 12              | --  | --              | --  |
| 1665              | 8                  | 21           | 9               | --  | 19              | --  |
| 1669              | 9                  | 23           | 11              | --  | --              | --  |
| 1670              | 8                  | 19           | 11              | --  | --              | --  |
| 1675              | 6                  | 19           | 9               | --  | --              | --  |
| 1676.6            | 6                  | 28           | --              | --  | --              | --  |
| 1680              | 6                  | 25           | 9               | --  | 19              | --  |
| 1690              | 7                  | 29           | 12              | --  | 22              | --  |
| 1695              | 4                  | 27           | 8               | --  | 21              | --  |
| 1698              | 4                  | 28           | 8               | --  | 22              | --  |
| 1700              | 5                  | 27           | 10              | --  | 16              | --  |
| 1715              | 6                  | 24           | --              | --  | 21              | --  |
| 1721              | 3                  | 24           | 7               | --  | --              | --  |
| 1722.2            | 6                  | 21           | --              | --  | --              | --  |
| 1740              | 6                  | 29           | --              | --  | --              | --  |
| 1760              | 7                  | 29           | 8               | --  | --              | --  |
| 1762              | 6                  | 32           | --              | --  | 24              | --  |
| 1764              | 7                  | 28           | 8               | --  | --              | --  |
| 1765              | 4                  | 32           | 9               | 0.7   | 22              | 1.4   |
| 1766              | 6                  | 20           | 9               | --  | --              | --  |
| 1769              | 3                  | 27           | 8               | 2.0   | 21              | 2.0   |
| 1790              | 0                  | 31           | 8               | 0.7   | 23              | 1.3   |
| 1805              | 5                  | 22           | 9               | --  | --              | --  |
| 1807              | 6                  | 30           | 8               | --  | --              | --  |
| 1807.5            | 7                  | 23           | --              | --  | --              | --  |
| 1810              | 2                  | 26           | 6               | --  | --              | --  |
| 1810.4            | 15                 | 26           | --              | --  | --              | --  |
| 1814              | 5                  | 21           | 11              | --  | --              | --  |

Table 1.--Continued

| Station number | Temperature, in °C |         |              |  |              |  |
|----------------|--------------------|---------|--------------|--|--------------|--|
|                | Extremes           |         | January      |  | August       |  |
|                | Minimum            | Maximum | Monthly mean | 95-percent probability confidence interval | Monthly mean | 95-percent probability confidence interval |
| 11-1820.3      | 5                  | 27      | 9            | --   | 21           | --   |
| 1821           | 7                  | 14      | --           | --   | --           | --   |
| 1824           | 7                  | 22      | --           | --   | 18           | --   |
| 1825           | 3                  | 26      | 7            | --   | --           | --   |
| 1830           | 3                  | 28      | 7            | --   | 21           | --   |
| 1835           | 4                  | 26      | 9            | --   | 22           | --   |
| 1836.5         | 10                 | 23      | --           | --   | --           | --   |
| 1840           | 4                  | 24      | --           | --   | --           | --   |
| 1845           | 7                  | 28      | --           | --   | --           | --   |
| 1850           | 7                  | 22      | --           | --   | --           | --   |
| 1851           | 8                  | 27      | --           | --   | --           | --   |
| 4559.5         | 7                  | 24      | 9            | --   | --           | --   |
| 4560           | 3                  | 33      | 10           | 1.8  | 21           | 1.5  |
| 4565           | 5                  | 26      | 9            | --   | 22           | --   |
| 4570           | 3                  | 24      | 9            | --   | 18           | --   |
| 4580           | 2                  | 26      | 9            | --   | 23           | --   |
| 4582           | 3                  | 24      | 9            | --   | 20           | --   |
| 4583.5         | 9                  | 22      | --           | --   | --           | --   |
| 4585           | 4                  | 28      | 9            | --   | 23           | --   |
| 4590           | 4                  | 17      | 8            | --   | --           | --   |
| 4595           | 6                  | 21      | 9            | --   | 18           | --   |
| 4600           | 3                  | 22      | 9            | --   | 18           | --   |
| 4601.          | 6                  | 22      | 7            | --   | --           | --   |
| 4601.6         | 9                  | 21      | --           | --   | --           | --   |
| 4601.65        | 3                  | 22      | --           | --   | --           | --   |
| 4601.7         | 4                  | 18      | 8            | --   | 16           | --   |
| 4605           | 6                  | 24      | 7            | --   | 14           | --   |
| 4607           | 6                  | 31      | --           | --   | --           | --   |
| 4608           | 2                  | 23      | 8            | --   | --           | --   |
| 4609.2         | 0                  | 23      | 7            | 1.6  | 15           | 3.8  |
| 4609.4         | 3                  | 24      | 7            | --   | --           | --   |
| 4610           | 3                  | 31      | 9            | 0.9  | 25           | 3.2  |
| 4615           | 3                  | 26      | 8            | --   | 19           | 1.5  |
| 4620           | 3                  | 24      | 9            | 0.8  | 16           | 2.0  |
| 4625           | 4                  | 29      | 9            | 1.4  | 19           | --   |
| 4627           | 2                  | 28      | 8            | --   | --           | --   |
| 4630           | 4                  | 26      | 9            | 2.2  | 19           | 1.3  |
| 4632           | 3                  | 27      | 8            | --   | 24           | --   |
| 4639           | 3                  | 22      | 8            | --   | 20           | --   |
| 4639.4         | 4                  | 21      | --           | --   | --           | --   |
| 4640           | 5                  | 27      | 9            | 0  | 22           | 2.9  |
| 4640.5         | 7                  | 15      | 9            | --   | --           | --   |
| 4645           | 3                  | 33      | 9            | 1.4  | 23           | 2.9  |
| 4652           | 3                  | 25      | 10           | 1.6  | 20           | 1.5  |
| 4658           | 3                  | 23      | 8            | --   | 19           | --   |
| 4670           | 4                  | 28      | 9            | 1.5  | 23           | 0.7  |
| 4672           | 4                  | 21      | 9            | --   | --           | --   |

# SELECTED REFERENCES

- California Department of Water Resources, 1956, Quality of surface waters in California, 1951-1954: Water Quality Inv. Rept. no. 15, 519 p.
- 1957, Quality of surface waters in California, 1955-1956: Bull. 65, 411 p.
- 1960, Quality of surface waters in California, 1957: Bull. 65-57, 342 p.
- 1960, Quality of surface waters in California, 1958: Bull. 65-58, 413 p.
- 1961, Quality of surface waters in California, 1959, Part 1. Northern and central California: Bull. 65-59, 425 p.
- 1963, Quality of surface waters in California, 1960-1961, Volume 1. Northern and central California, Part 2. Appendixes: Bull. 65-61, 477 p.
- 1965a, Quality of surface waters in California, 1962: Bull. 65-62, 410 p.
- 1965b, Hydrologic data, 1963, Volume 1. North coastal area: Bull. 130-63, 104 p.
- 1966a, Index of stream gaging stations in and adjacent to California: 136 p.
- 1966b, Hydrologic data, 1964, Volume 1. North coastal area: Bull. 130-64, 100 p.
- 1966c, Hydrologic data, 1965, Volume 1. North coastal area: Bull. 130-65, 93 p.
- 1968a, Hydrologic data, 1966, Volume 1. North coastal area: Bull. 130-66, 109 p.
- 1968b, Hydrologic data, 1967, Volume 1. North coastal area: Bull. 130-67, 79 p.
- 1968c, Dams within jurisdiction of the State of California: Bull. 17-68, 121 p.
- California Region Framework Study Committee, 1968, California Region framework study, water and related land resources, specifications and procedures: California State-Federal Interagency Group for the Pacific Southwest Inter-Agency Comm. Water Resources Council Rept., 12 p.
- Eisenhuth, H. P., 1968, Index of surface-water records to September 30, 1967, Part 11--Pacific slope basins in California: U.S. Geol. Survey Circ. 581 p.
- Jones, E. J., 1965, Temperature of California streams, Part 1. Evaluation of thermograph records: U.S. Geol. Survey open-file rept., 31 p.
- Moore, A. M., 1967, Correlation and analysis of water-temperature data for Oregon streams: U.S. Geol. Survey Water-Supply Paper 1819-K, 53 p.
- U.S. Geological Survey, 1959, Compilation of records of surface waters of the United States through September 1950, Part 11-B. Pacific slope basins in California, Central Valley: U.S. Geol. Survey Water-Supply Paper 1315-A, 459 p.
- 1964a, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 11. Pacific slope basins in California: U.S. Geol. Survey Water-Supply Paper 1735, 715 p.
- 1964b, Quality of surface waters of the United States, 1962, Parts 9-14. Colorado River basin to Pacific slope basins in Oregon and Lower Columbia River basin: U.S. Geol. Survey Water-Supply Paper 1945, 691 p.
- 1961-69, Water resources data for California: U.S. Geol. Survey ann. open-file rept., 3 pts.
- 1967, Quality of surface waters of the United States, 1961, Parts 9-14. Colorado River basin to Pacific slope basins in Oregon and Lower Columbia River basin: U.S. Geol. Survey Water-Supply Paper 1885, 677 p.
- 1968, Quality of surface waters of the United States, 1960, Parts 9-14. Colorado River basin to Pacific Slope basins in Oregon and Lower Columbia River basin: U.S. Geol. Survey Water-Supply Paper 1745, 607 p.



## STATION DATA

### Definition of Terms and Abbreviations

The terms of water-temperature and other hydrologic data, as used in this report, are defined as follows:

Acre-ft: Acre-foot, the quantity of water required to cover an acre to a depth of 1 foot.  
An acre-foot is equivalent to 43,560 cubic feet.

Continuous records: Water-temperature records collected by (1) thermograph, (2) once-daily, or (3) twice-daily water-temperature observations.

Cfs: Cubic foot per second. The rate of discharge of a stream with a channel 1 square foot in a cross-sectional area and whose average velocity is 1 foot per second.

Days of record: The number of days water-temperature records are available for determination of monthly mean and extremes.

°C: Degrees Celsius. Also known as degrees centigrade.

DWR: California Department of Water Resources.

Ft: Feet.

Periodic records: Water-temperature data obtained on an irregular basis and less frequently than continuous records.

Sq mi: Square mile.

Temperature station: A site on a stream or drainage ditch where water-temperature records are obtained.

Water year: A year begins October 1 and ends September 30. For example, water year 1967 begins October 1, 1966, and ends September 30, 1967.

Confidence interval (95 percent): A calculated interval about the mean where a given mean monthly water temperature will fall with a probability of 95 times out of 100.

### Station Numbers

Stations are listed in downstream order with the same numbering system used in water-supply papers and annual data reports of the Geological Survey. A numerical index is included so that nearby stations may be identified. A second index listing the stations in alphabetical order is included following the numerical index.

Where available, station names and numbers assigned by the California Department of Water Resources also are included for cross-reference. An explanation of the State identification numbering system is given in the introduction of the annual report titled "Hydrologic Data," Bulletin 130 series (California Department Water Resources, 1968a and 1968b).



### Station Descriptions

Location.--The location of each water-temperature station is described by latitude and longitude and, where available, by reference to township and range, Spanish Land Grant, County, and physical features such as tributary streams, highway bridges, towns, and miles above the mouth of the stream. Figure 4 shows the location of water-temperature stations.

Altitude of gage.--Altitude of zero point on staff gage, in feet above mean sea level.

Drainage area.--Area tributary to gage, in square miles.

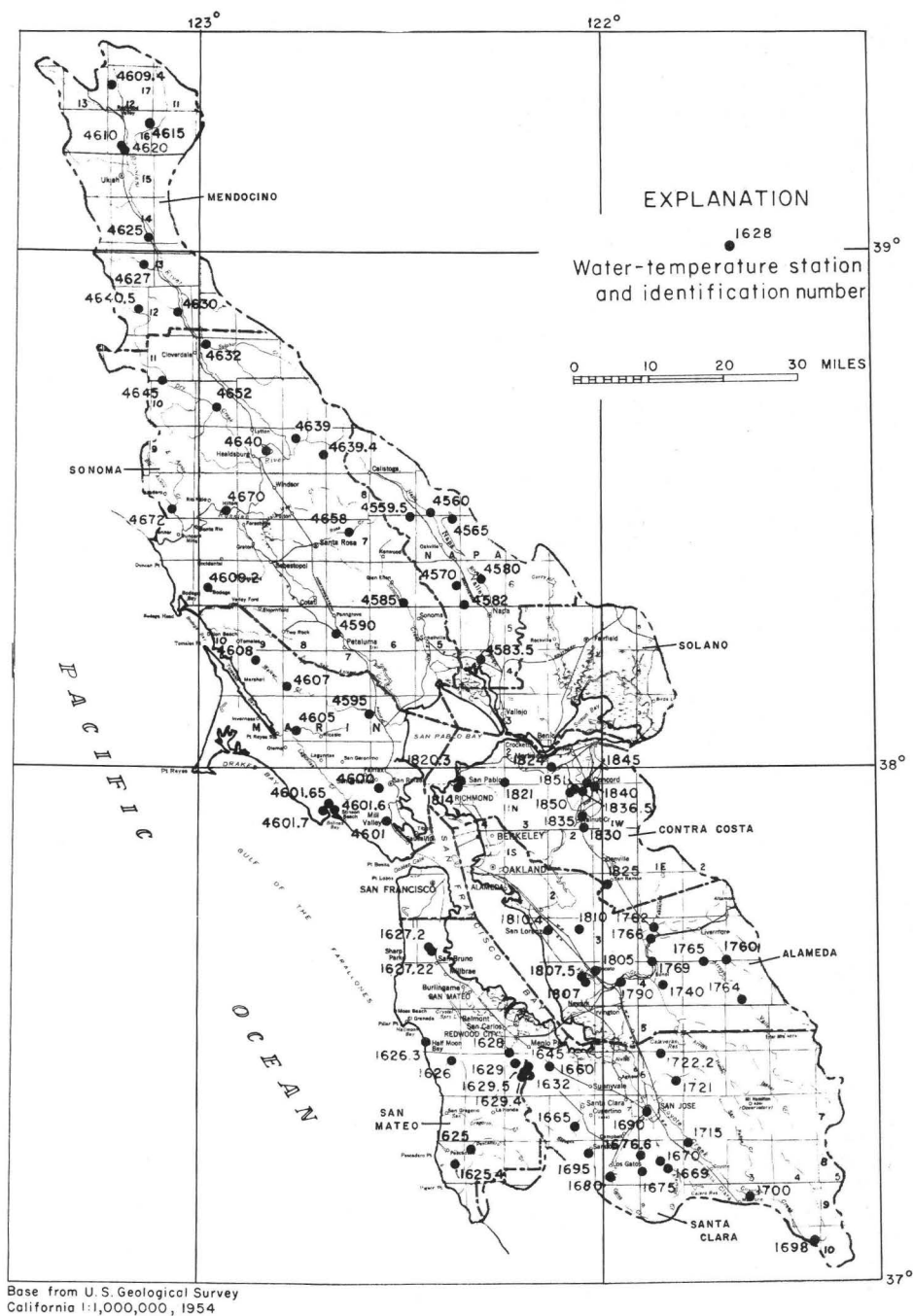
Records available.--The type of record is listed, and the inclusive period of the record shown. Missing data or years when data were not collected are not defined. The availability of periodic records is given as the number of observations during the period of record. At some sites, periodic observations have been made for many years, and, in addition, thermographs operated for a shorter period of time. In these instances, both records are given.

Average discharge.--Average of all daily flows for entire period of record, in cubic feet per second.

Remarks.--Upstream regulation by reservoirs or powerplants that may affect water temperatures is noted. The record was subdivided at the end of the water year during which regulation began.

At some stations, several agencies collected data for overlapping periods of record. These records are listed under one station description, and credit is given to the agencies that furnished the records.

Extremes.--Water-temperature extremes and their dates of occurrence are presented for both continuous and periodic data.



## PESCADERO CREEK BASIN

USGS: 11-1625. PESCADERO CREEK NEAR PESCADERO, CALIF.  
DWR: E-8-3100

LOCATION.--LAT 37 15 40, LONG 122 19 40, SW1/4 SEC. 5, T.8 S, R.4 W,  
ON LEFT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE, 3.0 MILES EAST OF  
PESCADERO AND 5.3 MILES UPSTREAM FROM MOUTH, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--62 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--45.9 SQ. MI.  
RECORDS AVAILABLE.--147 PERIODIC OBSERVATIONS FROM APRIL 1951 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--41.6 CFS FOR 16 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 22 DEG. C, AUG. 9, 1965, JULY 22, 1966, JULY 23, 1966, JULY 24, 1966, JULY 31, 1966  
JULY 12, 1968  
MINIMUM = 2 DEG. C, DEC. 18, 1965  
PERIODIC DATA:  
MAXIMUM = 22 DEG. C, AUG. 6, 1964  
MINIMUM = 0 DEG. C, JAN. 26, 1957

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
| 1966      | MAXIMUM:        | **   | 13   | 9    | 11   | 11   | 14   | 17   | 17  | 21   | 22   | 21   | 19   |
|           | MEAN:           | **   | 10   | 6    | 7    | 9    | 11   | 14   | 14  | 17   | 18   | 18   | 16   |
|           | MINIMUM:        | **   | 7    | 2    | 4    | 6    | 7    | 11   | 12  | 12   | 13   | 14   | 12   |
| 1967      | MAXIMUM:        | 18   | 14   | 12   | 12   | **   | 13   | 12   | 18  | 20   | 21   | 19   | 19   |
|           | MEAN:           | 13   | 11   | 9    | 8    | **   | 9    | 10   | 13  | 15   | 18   | 17   | 17   |
|           | MINIMUM:        | 9    | 7    | 5    | 4    | **   | 6    | 8    | 9   | 12   | 15   | 15   | 14   |
| 1968      | MAXIMUM:        | 17   | 14   | 11   | 11   | 13   | 14   | 16   | 21  | 21   | 22   | 21   | 20   |
|           | MEAN:           | 14   | 12   | 7    | 7    | 11   | 11   | 12   | 14  | 17   | 18   | 17   | 16   |
|           | MINIMUM:        | 10   | 7    | 4    | 3    | 8    | 9    | 8    | 11  | 12   | 14   | 13   | 11   |
| 1965-1968 | MAXIMUM:        | 18   | 14   | 12   | 12   | 13   | 14   | 17   | 21  | 21   | 22   | 21   | 20   |
|           | MEAN:           | 14   | 11   | 7    | 7    | 10   | 10   | 12   | 14  | 16   | 18   | 17   | 16   |
|           | MINIMUM:        | 9    | 7    | 2    | 3    | 6    | 6    | 8    | 9   | 12   | 13   | 13   | 11   |
|           | DAYS OF RECORD: | 62   | 80   | 53   | 59   | 51   | 92   | 97   | 95  | 112  | 117  | 117  | 91   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-68          | MAXIMUM:        | 17   | 13   | 13   | 11   | 13   | 14   | 17   | 17  | 19   | 21   | 22   | 19   |
|                  | MEAN:           | 14   | 11   | 8    | 7    | 9    | 10   | 13   | 14  | 16   | 17   | 18   | 16   |
|                  | MINIMUM:        | 10   | 4    | 5    | 0    | 5    | 7    | 10   | 13  | 10   | 7    | 16   | 11   |
|                  | DAYS OF RECORD: | 12   | 13   | 11   | 13   | 11   | 11   | 18   | 13  | 13   | 12   | 11   | 9    |

USGS: 11-1625.4 BUTANO CREEK NEAR PESCADERO, CALIF.  
DWR: D-0-5200

LOCATION.--LAT 37 14 1, LONG 122 21 56, SEC. 0, T.0, R.0,  
IN BUTANO GRANT, ON RIGHT BANK 0.15 MILE BELOW UNNAMED TRIBUTARY AND  
1.7 MILES SOUTHEAST OF PESCADERO, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--70 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--18.3 SQ. MI.  
RECORDS AVAILABLE.--59 PERIODIC OBSERVATIONS FROM JULY 1962 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 20 DEG. C, JULY 7, 1966  
MINIMUM = 6 DEG. C, FEB. 25, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-68          | MAXIMUM:        | 14   | 14   | 12   | 11   | 11   | 13   | 14   | 13  | 16   | 20   | 16   | 17   |
|                  | MEAN:           | 12   | 11   | 10   | 9    | 9    | 12   | 12   | 12  | 14   | 16   | 15   | 17   |
|                  | MINIMUM:        | 10   | 7    | 7    | 6    | 6    | 10   | 11   | 12  | 12   | 12   | 14   | 16   |
|                  | DAYS OF RECORD: | 4    | 5    | 5    | 5    | 6    | 5    | 6    | 4   | 7    | 7    | 3    | 2    |

## PURISIMA CREEK BASIN

USGS: 11-1626. PURISIMA CREEK NEAR HALF MOON BAY, CALIF.  
DWR: E-8-2100

LOCATION.--LAT 37 26 6, LONG 122 22 23, SEC. 0, T.0 , R.0 ,  
IN CANADA DE VERDE Y ARROYO DE LA PURISIMA GRANT, ON LEFT BANK 15 FT  
DOWNSTREAM FROM COUNTY ROAD BRIDGE, 3.6 MILES SOUTHEAST OF HALF MOON  
BAY AND 4.0 MILES UPSTREAM FROM MOUTH, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--380 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--4.83 SQ. MI.  
RECORDS AVAILABLE.--94 PERIODIC OBSERVATIONS FROM OCTOBER 1958 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--3.01 CFS FOR 9 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 17 DEG. C, AUG. 6, 1964  
MINIMUM = 5 DEG. C, DEC. 30, 1960

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-68             | MAXIMUM:        | 16   | 14   | 13   | 12   | 11   | 12   | 12   | 13  | 13   | 15   | 17   | 16   |
|                     | MEAN:           | 13   | 11   | 9    | 9    | 9    | 10   | 11   | 11  | 12   | 14   | 14   | 12   |
|                     | MINIMUM:        | 10   | 7    | 5    | 6    | 8    | 7    | 9    | 9   | 12   | 13   | 13   | 8    |
|                     | DAYS OF RECORD: | 12   | 9    | 10   | 10   | 7    | 6    | 8    | 6   | 7    | 5    | 7    | 7    |

## PILARCITOS CREEK BASIN

USGS: 11-1626.3 PILARCITOS CREEK AT HALF MOON BAY, CALIF.  
DWR:

LOCATION.--LAT 37 28 7, LONG 122 26 8, SEC. 0, T.0 , R.0 ,  
ON NORTH BOUNDARY OF MIRAMONTES GRANT, ON LEFT BANK 0.2 MILE DOWNSTREAM  
FROM STATE HIGHWAY 1, 0.5 MILE NORTHWEST OF TOWN OF HALF MOON BAY, AND  
1.0 MILE UPSTREAM FROM MOUTH, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--24 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--27.2 SQ. MI.  
RECORDS AVAILABLE.--20 PERIODIC OBSERVATIONS FROM MARCH 1967 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, JULY 2, 1968  
MINIMUM = 8 DEG. C, JAN. 5, 1968, JAN. 31, 1968

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967-68             | MAXIMUM:        | 14   | 16   | 9    | 8    | 13   | 13   | 16   | 17  | 14   | 21   | 18   | 15   |
|                     | MEAN:           | 14   | 16   | 9    | 8    | 13   | 13   | 13   | 17  | 14   | 19   | 18   | 15   |
|                     | MINIMUM:        | 14   | 16   | 9    | 8    | 13   | 12   | 10   | 17  | 13   | 17   | 18   | 15   |
|                     | DAYS OF RECORD: | 1    | 1    | 1    | 2    | 1    | 2    | 4    | 2   | 2    | 2    | 1    | 1    |

## COLMA CREEK BASIN

USGS: 11-1627.2 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.  
DWR: E-7-2500

LOCATION.--LAT 37 39 14, LONG 122 25 31, SEC. 0, T.0 , R.0 ,  
IN BURI BURI GRANT, ON LEFT BANK IN ORANGE MEMORIAL PARK, 1.0 MILE  
SOUTHWEST OF SOUTH SAN FRANCISCO POST OFFICE, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--13 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--10.9 SQ. MI.  
RECORDS AVAILABLE.--52 PERIODIC OBSERVATIONS FROM FEBRUARY 1960 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, AUG. 19, 1964  
MINIMUM = 6 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             | MAXIMUM:        | 22   | 17   | 15   | 11   | 18   | 21   | 19   | 18  | 23   | 25   | 26   | 23   |
|                     | MEAN:           | 18   | 14   | 11   | 10   | 11   | 21   | 16   | 16  | 18   | 20   | 22   | 20   |
|                     | MINIMUM:        | 16   | 13   | 6    | 9    | 7    | 21   | 13   | 14  | 13   | 17   | 17   | 15   |
|                     | DAYS OF RECORD: | 5    | 7    | 7    | 3    | 7    | 1    | 5    | 3   | 3    | 3    | 5    | 3    |

## COLMA CREEK BASIN

USGS: 11-1627.22 SPRUCE BRANCH AT SOUTH SAN FRANCISCO, CALIF.  
DWR: E-7-2505

LOCATION.--LAT 37 38 46, LONG 122 25 15, SEC. 0, T.0 , R.0 ,  
IN BURI BURI GRANT, ON RIGHT BANK 0.5 MILE UPSTREAM FROM MOUTH AND 1.0  
MILE SOUTHWEST OF SOUTH SAN FRANCISCO POST OFFICE, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--6 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--1.68 SQ. MI.  
RECORDS AVAILABLE.--34 PERIODIC OBSERVATIONS FROM NOVEMBER 1964 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, AUG. 5, 1968, SEP. 5, 1968  
MINIMUM = 8 DEG. C, FEB. 1, 1966

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965-68             | MAXIMUM:        | 19   | 19   | 16   | 14   | 15   | 19   | 17   | 18  | 19   | 20   | 21   | 21   |
|                     | MEAN:           | 19   | 16   | 14   | 13   | 12   | 14   | 16   | 17  | 19   | 19   | 19   | 21   |
|                     | MINIMUM:        | 18   | 14   | 12   | 11   | 8    | 11   | 15   | 17  | 18   | 18   | 18   | 19   |
|                     | DAYS OF RECORD: | 2    | 3    | 4    | 4    | 5    | 3    | 2    | 2   | 2    | 2    | 3    | 2    |

## REDWOOD CREEK BASIN

USGS: 11-1628. REDWOOD CREEK AT REDWOOD CITY, CALIF.  
DWR: E-6-9005

LOCATION.--LAT 37 26 58, LONG 122 13 57, SEC. 0, T.0 , R.0 ,  
IN PULGAS GRANT, AT MENLO COUNTRY CLUB, ON RIGHT BANK 200 FT UPSTREAM  
FROM ALAMEDA DE LAS PULGAS BRIDGE AND 2.5 MILES SOUTH OF REDWOOD CITY  
POST OFFICE, SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--84 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--1.82 SQ. MI.  
RECORDS AVAILABLE.--55 PERIODIC OBSERVATIONS FROM JANUARY 1960 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--0.870 CFS FOR 8 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, JULY 17, 1967  
MINIMUM = 4 DEG. C, FEB. 11, 1960

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             | MAXIMUM:        | 19   | 16   | 13   | 11   | 12   | 16   | 14   | 15  | 19   | 21   | 20   | 19   |
|                     | MEAN:           | 16   | 13   | 9    | 9    | 9    | 13   | 12   | 13  | 15   | 18   | 19   | 18   |
|                     | MINIMUM:        | 12   | 8    | 6    | 6    | 4    | 12   | 11   | 11  | 12   | 16   | 18   | 17   |
|                     | DAYS OF RECORD: | 5    | 7    | 3    | 6    | 6    | 3    | 5    | 5   | 7    | 2    | 4    | 2    |

## ATHERTON DRAINAGE CHANNEL BASIN

USGS: 11-1629. SHARON CREEK NEAR MENLO PARK, CALIF.  
DWR: E-6-9010

LOCATION.--LAT 37 25 45, LONG 122 13 2, SEC. 0, T.0 , R.0  
IN PULGAS GRANT, AT ATHERTON CITY BOUNDARY, 900 FT UPSTREAM FROM  
ATHERTON DRAINAGE CHANNEL AND 2.6 MILES SOUTHWEST OF MENLO PARK,  
SAN MATEO COUNTY.  
ALTITUDE OF GAGE.--146 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--0.380 SQ. MI.  
RECORDS AVAILABLE.--21 PERIODIC OBSERVATIONS FROM NOVEMBER 1961 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--0.140 CFS FOR 9 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 27 DEG. C, AUG. 3, 1967  
MINIMUM = 6 DEG. C, DEC. 12, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-68             | MAXIMUM:        | 17   | 16   | 6    | 8    | 13   | **   | 13   | 17  | 16   | 24   | 27   | 23   |
|                     | MEAN:           | 14   | 16   | 6    | 8    | 12   | **   | 13   | 15  | 16   | 24   | 24   | 22   |
|                     | MINIMUM:        | 13   | 16   | 6    | 8    | 9    | **   | 13   | 13  | 16   | 24   | 23   | 21   |
|                     | DAYS OF RECORD: | 3    | 1    | 1    | 1    | 3    | 0    | 2    | 3   | 1    | 1    | 3    | 2    |

SAN FRANCISQUITO CREEK BASIN

USGS: 11-1629.4 SAN FRANCISQUITO CREEK BL LADERA DAMSITE, NR STANFORD UNIV., CALIF.  
DWR: E-6-2275

LOCATION.--LAT 37 24 24, LONG 122 12 11, SEC. 0, T.0 , R.0 ,  
ON NORTH BOUNDARY OF EL CORTE DE MADERA GRANT, 1.2 MILES UPSTREAM FROM  
LOS TRANCOS CREEK, 0.5 MILE NORTHWEST OF LADERA SCHOOL, AND 2.3 MILES  
SOUTHWEST OF STANFORD UNIVERSITY POST OFFICE, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--177 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--28.5 SQ. MI.  
RECORDS AVAILABLE.--50 PERIODIC OBSERVATIONS FROM OCTOBER 1961 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--16.1 CFS FOR 6 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 20 DEG. C, AUG. 1, 1963  
MINIMUM = 4 DEG. C, JAN. 16, 1963

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 16   | 14   | 12   | 9    | 8    | 15   | 16   | 17  | 18   | 17   | 20   | 19   |
| MEAN:               | 15   | 12   | 9    | 7    | 8    | 12   | 14   | 14  | 16   | 16   | 18   | 18   |
| MINIMUM:            | 13   | 8    | 7    | 4    | 8    | 10   | 11   | 12  | 14   | 15   | 16   | 16   |
| DAYS OF RECORD:     | 4    | 7    | 4    | 8    | 2    | 3    | 3    | 3   | 4    | 3    | 5    | 4    |

USGS: 11-1629.5 SAN FRANCISQUITO CREEK TRIBUTARY NEAR STANFORD UNIVERSITY, CALIF.  
DWR: E-6-2255

LOCATION.--LAT 37 24 43, LONG 122 11 52, SEC. 0, T.0 , R.0 ,  
IN PULGAS GRANT, ON LEFT BANK 130 FT UPSTREAM FROM MOUTH, 200 FT  
DOWNSTREAM FROM RANCH RD BR, 0.4 MI W OF GATE AT ALPINE RD, AND 1.8 MI  
SOUTHWEST OF STANFORD UNIVERSITY POST OFFICE, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--175 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--0.260 SQ. MI.  
RECORDS AVAILABLE.-- 6 PERIODIC OBSERVATIONS FROM JUNE 1964 THROUGH MARCH 1965.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--0.040 CFS FOR 6 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 28 DEG. C, JULY 15, 1964  
MINIMUM = 11 DEG. C, DEC. 28, 1964

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964-65             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | **   | **   | 11   | 13   | **   | 21   | **   | **  | 16   | 28   | **   | **   |
| MEAN:               | **   | **   | 11   | 13   | **   | 17   | **   | **  | 16   | 28   | **   | **   |
| MINIMUM:            | **   | **   | 11   | 13   | **   | 12   | **   | **  | 16   | 28   | **   | **   |
| DAYS OF RECORD:     | 0    | 0    | 1    | 1    | 0    | 2    | 0    | 0   | 1    | 1    | 0    | 0    |

USGS: 11-1632. LOS TRANCOS CREEK TRIBUTARY NEAR STANFORD UNIVERSITY, CALIF.  
DWR: E-6-2235

LOCATION.--LAT 37 24 18, LONG 122 11 9, SEC. 0, T.0 , R.0 ,  
IN EL CORTE DE MADERA GRANT, ON RIGHT BANK 350 FT EAST OF WOODEN WATER  
TANKS, 0.4 MILE EAST OF LADERA, 0.6 MILE UPSTREAM FROM MOUTH, AND 1.7  
MILES SOUTHWEST OF STANFORD UNIVERSITY POST OFFICE, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--269 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--0.470 SQ. MI.  
RECORDS AVAILABLE.-- 8 PERIODIC OBSERVATIONS FROM JANUARY 1962 THROUGH DECEMBER 1965.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--0.040 CFS FOR 8 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, MAR. 19, 1965  
MINIMUM = 1 DEG. C, JAN. 22, 1962

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-66             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | **   | **   | 9    | 9    | 12   | 21   | 16   | **  | **   | **   | **   | **   |
| MEAN:               | **   | **   | 8    | 5    | 12   | 17   | 16   | **  | **   | **   | **   | **   |
| MINIMUM:            | **   | **   | 7    | 1    | 12   | 13   | 16   | **  | **   | **   | **   | **   |
| DAYS OF RECORD:     | 0    | 0    | 2    | 2    | 1    | 2    | 1    | 0   | 0    | 0    | 0    | 0    |

# SAN FRANCISQUITO CREEK BASIN

USGS: 11-1645. SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CALIF.  
DWR: E-6-2225

LOCATION.--LAT 37 25 24, LONG 122 11 18, SEC. 0, T.0 , R.0 ,  
IN SAN FRANCISQUITO GRANT AT GOLF COURSE, ON RIGHT BANK 1.1 MILES  
DOWNSTREAM FROM LOS TRANCOS CREEK AND 1.1 MILES WEST OF STANFORD  
UNIVERSITY POST OFFICE, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--116 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--37.5 SQ. MI.  
RECORDS AVAILABLE.--183 PERIODIC OBSERVATIONS FROM NOVEMBER 1950 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--17.6 CFS FOR 28 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, AUG. 1, 1966  
MINIMUM = 2 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 9    | 14   | 12   | 11   | 14   | 16   | 18   | 18  | 19   | 19   | 21   | 20   |
|                     | MEAN:           | 9    | 12   | 9    | 9    | 11   | 11   | 13   | 15  | 17   | 17   | 19   | 16   |
|                     | MINIMUM:        | 9    | 9    | 2    | 4    | 6    | 8    | 11   | 12  | 15   | 16   | 17   | 9    |
|                     | DAYS OF RECORD: | 1    | 9    | 8    | 29   | 48   | 35   | 19   | 12  | 10   | 3    | 5    | 4    |

# MATADERO CREEK BASIN

USGS: 11-1660. MATADERO CREEK AT PALO ALTO, CALIF.  
DWR: E-6-1100

LOCATION.--LAT 37 25 10, LONG 122 8 10, SEC. 0, T.0 , R.0 ,  
IN RINCON DE SAN FRANCISQUITO GRANT, ON RIGHT BANK ON ASH STREET, 150  
FT UPSTREAM FROM LAMBERT AVENUE BRIDGE, AND 2.1 MILES SOUTHEAST OF POST  
OFFICE AT PALO ALTO, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--22 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--7.24 SQ. MI.  
RECORDS AVAILABLE.--19 PERIODIC OBSERVATIONS FROM DECEMBER 1952 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--1.36 CFS FOR 15 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 29 DEG. C, SEP. 8, 1965  
MINIMUM = 1 DEG. C, FEB. 16, 1956

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | **   | 9    | 12   | 13   | 12   | 13   | 17   | **  | **   | **   | 28   | 29   |
|                     | MEAN:           | **   | 9    | 10   | 12   | 7    | 12   | 17   | **  | **   | **   | 25   | 29   |
|                     | MINIMUM:        | **   | 9    | 9    | 11   | 1    | 10   | 17   | **  | **   | **   | 22   | 29   |
|                     | DAYS OF RECORD: | 0    | 1    | 5    | 4    | 3    | 2    | 1    | 0   | 0    | 0    | 2    | 1    |

# STEVENS CREEK BASIN

USGS: 11-1665. STEVENS CREEK NEAR CUPERTINO, CALIF.  
DWR: E-6-3100

LOCATION.--LAT 37 18 20, LONG 122 4 25, SW1/4 SEC. 22, T.7 S, R.2 W,  
ON LEFT BANK ON DOWNSTREAM SIDE OF HIGHWAY BRIDGE, 0.6 MILE DOWNSTREAM  
FROM STEVENS CREEK DAM AND 2.5 MILES SOUTHWEST OF CUPERTINO,  
SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--385 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--18.1 SQ. MI.  
RECORDS AVAILABLE.--49 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH OCTOBER 1959.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--12.6 CFS FOR 30 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1936.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, AUG. 30, 1958  
MINIMUM = 8 DEG. C, JAN. 25, 1950, FEB. 17, 1950

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-60             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 18   | 14   | 13   | 11   | 13   | 12   | 14   | 13  | 17   | 19   | 21   | 19   |
|                     | MEAN:           | 13   | 13   | 13   | 9    | 11   | 10   | 12   | 11  | 15   | 14   | 19   | 16   |
|                     | MINIMUM:        | 10   | 12   | 13   | 8    | 8    | 9    | 11   | 10  | 13   | 11   | 16   | 11   |
|                     | DAYS OF RECORD: | 5    | 2    | 1    | 6    | 4    | 5    | 6    | 7   | 2    | 3    | 5    | 3    |

GUADALUPE RIVER BASIN

USGS: 11-1669. ALAMITOS CREEK NEAR NEW ALMADEN, CALIF.  
DWR: E-6-5450

LOCATION.--LAT 37 13 21, LONG 121 51 0, SEC. 0, T.0 , R.0 ,  
IN PUEBLO LANDS OF SAN JOSE GRANT, ON LEFT BANK AT GREYSTONE BRIDGE,  
1.1 MILES DOWNSTREAM FROM ARROYO CALERO, 3.4 MILES SOUTHWEST OF  
EDENVALE, AND 3.5 MILES NORTHWEST OF NEW ALMADEN, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--247 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--31.9 SQ. MI.  
RECORDS AVAILABLE.--60 PERIODIC OBSERVATIONS FROM APRIL 1958 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--16.7 CFS FOR 9 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXREMES.--PERIODIC DATA:  
MAXIMUM = 23 DEG. C, JULY 7, 1967  
MINIMUM = 9 DEG. C, JAN. 4, 1961, MAR. 3, 1966

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1958-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 21   | 17   | 11   | 12   | 16   | 21   | 19   | 19  | 20   | 23   | 22   | 22   |
| MEAN:               | 19   | 16   | 11   | 11   | 14   | 14   | 16   | 17  | 17   | 22   | 22   | 20   |
| MINIMUM:            | 17   | 13   | 10   | 9    | 11   | 9    | 13   | 12  | 15   | 20   | 22   | 18   |
| DAYS OF RECORD:     | 3    | 3    | 3    | 6    | 5    | 8    | 7    | 9   | 5    | 5    | 1    | 5    |

USGS: 11-1670. ALAMITOS CREEK NEAR EDENVALE, CALIF.  
DWR: E-6-5400

LOCATION.--LAT 37 14 8, LONG 121 52 8, SW1/4 SEC. 16, T.8 S, R.1 E,  
ON RIGHT BANK 0.6 MILE UPSTREAM FROM CONFLUENCE WITH GUADALUPE CREEK  
AND 3.2 MILES SOUTHWEST OF EDENVALE, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--200 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--34.6 SQ. MI.  
RECORDS AVAILABLE.--50 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH MARCH 1958.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--17.5 CFS FOR 28 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1935.  
EXREMES.--PERIODIC DATA:  
MAXIMUM = 19 DEG. C, MAY 18, 1956  
MINIMUM = 8 DEG. C, JAN. 25, 1950, JAN. 24, 1957

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-58             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | **   | 17   | 15   | 14   | 14   | 18   | 18   | 19  | 18   | **   | 18   | 11   |
| MEAN:               | **   | 15   | 13   | 11   | 12   | 13   | 15   | 14  | 17   | **   | 18   | 11   |
| MINIMUM:            | **   | 13   | 12   | 8    | 11   | 9    | 12   | 11  | 16   | **   | 18   | 11   |
| DAYS OF RECORD:     | 0    | 4    | 5    | 10   | 5    | 13   | 4    | 5   | 2    | 0    | 1    | 1    |

USGS: 11-1675. GUADALUPE CREEK AT GUADALUPE, CALIF.  
DWR: E-6-5300

LOCATION.--LAT 37 13 5, LONG 121 54 35, SW1/4 SEC. 19, T.8 S, R.1 E,  
ON LEFT BANK 0.5 MILE NORTHWEST OF GUADALUPE AND 3.5 MILES UPSTREAM  
FROM CONFLUENCE WITH ALAMITOS CREEK, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--325 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--12.7 SQ. MI.  
RECORDS AVAILABLE.--46 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH SEPTEMBER 1959.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--11.1 CFS FOR 30 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1936.  
EXREMES.--PERIODIC DATA:  
MAXIMUM = 19 DEG. C, AUG. 7, 1956  
MINIMUM = 6 DEG. C, JAN. 25, 1954

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-59             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 14   | 16   | 14   | 13   | 13   | 16   | 13   | 17  | 15   | 17   | 19   | 18   |
| MEAN:               | 12   | 12   | 12   | 9    | 11   | 12   | 13   | 13  | 14   | 14   | 18   | 12   |
| MINIMUM:            | 11   | 8    | 9    | 6    | 9    | 11   | 12   | 11  | 13   | 12   | 17   | 7    |
| DAYS OF RECORD:     | 4    | 4    | 2    | 5    | 5    | 7    | 3    | 6   | 2    | 3    | 2    | 3    |



GUADALUPE RIVER BASIN

USGS: 11-1676.6 ROSS CREEK AT SAN JOSE, CALIF.  
DWR: E-6-9300

LOCATION.--LAT 37 14 56, LONG 121 54 45, SE1/4 SEC. 12, T.8 S, R.1 W,  
ON RIGHT BANK 200 FT UPSTREAM FROM HARWOOD AVENUE, 600 FT DOWNSTREAM  
FROM LONE HILL CREEK, AND AT SOUTH CITY LIMITS OF SAN JOSE,  
SANTA CLARA COUNTY.

ALTITUDE OF GAGE.--204 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--5.70 SQ. MI.

RECORDS AVAILABLE.--29 PERIODIC OBSERVATIONS FROM DECEMBER 1961 THROUGH SEPTEMBER 1968.

NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--2.46 CFS FOR 6 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 28 DEG. C, JULY 6, 1967  
MINIMUM = 6 DEG. C, DEC. 30, 1965

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | **   | 18   | 13   | 11   | 18   | 19   | 21   | 27  | 22   | 28   | 26   | 28   |
| MEAN:               | **   | 16   | 10   | 10   | 14   | 17   | 17   | 24  | 22   | 23   | 26   | 28   |
| MINIMUM:            | **   | 12   | 6    | 9    | 11   | 14   | 13   | 21  | 22   | 20   | 26   | 28   |
| DAYS OF RECORD:     | 0    | 4    | 2    | 2    | 3    | 2    | 5    | 4   | 1    | 4    | 1    | 1    |

USGS: 11-1680. LOS GATOS CREEK AT LOS GATOS, CALIF.  
DWR: E-6-5250

LOCATION.--LAT 37 12 30, LONG 121 59 15, NE1/4 SEC. 29, T.8 S, R.1 W,  
ON LEFT BANK 0.3 MILE DOWNSTREAM FROM TROUT CREEK, 0.5 MILE DOWNSTREAM  
FROM LEXINGTON RESERVOIR, AND 1.0 MILE SOUTH OF LOS GATOS,  
SANTA CLARA COUNTY.

ALTITUDE OF GAGE.--420 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--38.6 SQ. MI.

RECORDS AVAILABLE.--304 PERIODIC OBSERVATIONS FROM FEBRUARY 1950 THROUGH SEPTEMBER 1968.

NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--47.5 CFS FOR 29 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 25 DEG. C, AUG. 2, 1960  
MINIMUM = 6 DEG. C, DEC. 8, 1959

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 20   | 20   | 13   | 12   | 14   | 18   | 19   | 24  | 20   | 22   | 25   | 22   |
| MEAN:               | 17   | 14   | 11   | 9    | 11   | 11   | 14   | 15  | 15   | 17   | 19   | 19   |
| MINIMUM:            | 11   | 9    | 6    | 7    | 7    | 7    | 9    | 8   | 11   | 12   | 13   | 9    |
| DAYS OF RECORD:     | 21   | 27   | 26   | 28   | 23   | 33   | 29   | 29  | 24   | 21   | 18   | 25   |

USGS: 11-1690. GUADALUPE RIVER AT SAN JOSE, CALIF.  
DWR: E-6-5150

LOCATION.--LAT 37 20 0, LONG 121 54 0, SE1/4 SEC. 7, T.7 S, R.1 E,  
ON RIGHT BANK 100 FT DOWNSTREAM FROM LOS GATOS CREEK AT SAN JOSE,  
SANTA CLARA COUNTY.

ALTITUDE OF GAGE.--72 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--146 SQ. MI.

RECORDS AVAILABLE.--119 PERIODIC OBSERVATIONS FROM FEBRUARY 1950 THROUGH AUGUST 1968.

NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 29 DEG. C, JUNE 8, 1962  
MINIMUM = 7 DEG. C, FEB. 27, 1955

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 22   | 18   | 16   | 16   | 20   | 17   | 24   | 25  | 29   | 29   | 23   | 20   |
| MEAN:               | 20   | 14   | 13   | 12   | 13   | 14   | 18   | 19  | 22   | 25   | 22   | 20   |
| MINIMUM:            | 17   | 12   | 10   | 7    | 7    | 12   | 14   | 16  | 17   | 23   | 20   | 19   |
| DAYS OF RECORD:     | 2    | 5    | 10   | 13   | 34   | 26   | 13   | 4   | 4    | 3    | 3    | 2    |

GUADALUPE RIVER BASIN

USGS: 11-1695. SARATUGA CREEK AT SARATOGA, CALIF.  
DWR: E-6-5100

LOCATION.--LAT 37 15 15, LONG 122 2 25, SEC. 0, T.0 , R.0 ,  
IN QUITO GRANT, ON RIGHT BANK ON DOWNSTREAM SIDE OF PRIVATE ROAD  
BRIDGE, 0.7 MILE DOWNSTREAM FROM DIVERSION DAM, AND 0.5 MILES SOUTHWEST  
OF SARATOGA, SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--500 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--9.22 SQ. MI.  
RECORDS AVAILABLE.--99 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--9.68 CFS FOR 34 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 27 DEG. C, JUNE 27, 1962  
MINIMUM = 4 DEG. C, JAN. 11, 1963, DEC. 20, 1962

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 17   | 14   | 13   | 13   | 12   | 17   | 22   | 22  | 27   | 18   | 26   | 20   |
|                     | MEAN:           | 14   | 12   | 10   | 8    | 10   | 10   | 13   | 15  | 18   | 17   | 21   | 17   |
|                     | MINIMUM:        | 11   | 8    | 4    | 4    | 7    | 8    | 9    | 11  | 12   | 15   | 14   | 11   |
|                     | DAYS OF RECORD: | 3    | 8    | 10   | 12   | 10   | 15   | 12   | 8   | 9    | 5    | 4    | 3    |

COYOTE CREEK BASIN

USGS: 11-1698. COYOTE CREEK NEAR GILROY, CALIF.  
DWR: E-6-4300

LOCATION.--LAT 37 4 40, LONG 121 29 36, NE1/4SE1/4 SEC.11, T.10 S, R.4 E,  
ON LEFT BANK 0.7 MILE DOWNSTREAM FROM BEAR CREEK, 5.0 MILES UPSTREAM  
FROM COYOTE CREEK DAM, AND 6.4 MILES NORTHEAST OF GILROY,  
SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--790 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--109 SQ. MI.  
RECORDS AVAILABLE.--78 PERIODIC OBSERVATIONS FROM JANUARY 1961 THROUGH AUGUST 1968.  
CONTINUOUS RECORD FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--43.1 CFS FOR 7 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY SANTA CLARA VALLEY WATER CONSERVATION DISTRICT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 23 DEG. C, JULY 1, 1968  
MINIMUM = 4 DEG. C, JAN. 2, 1966  
PERIODIC DATA:  
MAXIMUM = 28 DEG. C, JULY 2, 1962  
MINIMUM = 6 DEG. C, JAN. 22, 1962, FEB. 28, 1962

WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965      | MAXIMUM:        | **   | **   | 14   | 11   | 12   | 15   | 21   | **  | 17   | **   | **   | **   |
|           | MEAN:           | **   | **   | 11   | 9    | 12   | 13   | 13   | **  | 17   | **   | **   | **   |
|           | MINIMUM:        | **   | **   | 7    | 4    | 12   | 12   | 8    | **  | 17   | **   | **   | **   |
| 1966      | MAXIMUM:        | **   | 13   | 8    | 9    | 9    | 8    | 20   | 21  | 22   | **   | 22   | **   |
|           | MEAN:           | **   | 11   | 7    | 7    | 9    | 8    | 18   | 21  | 22   | **   | 22   | **   |
|           | MINIMUM:        | **   | 7    | 7    | 4    | 9    | 8    | 14   | 19  | 22   | **   | 22   | **   |
| 1967      | MAXIMUM:        | **   | 13   | 13   | 12   | 13   | 14   | 13   | 16  | 13   | 22   | **   | 21   |
|           | MEAN:           | **   | 12   | 11   | 9    | 11   | 11   | 11   | 16  | 13   | 22   | **   | 21   |
|           | MINIMUM:        | **   | 11   | 8    | 7    | 7    | 8    | 9    | 16  | 13   | 22   | **   | 21   |
| 1968      | MAXIMUM:        | **   | **   | **   | 8    | 16   | 15   | 19   | 19  | 21   | 23   | 21   | **   |
|           | MEAN:           | **   | **   | **   | 8    | 12   | 13   | 17   | 19  | 21   | 23   | 21   | **   |
|           | MINIMUM:        | **   | **   | **   | 7    | 6    | 12   | 11   | 19  | 21   | 23   | 21   | **   |
| 1965-1968 | MAXIMUM:        | **   | 13   | 14   | 12   | 16   | 15   | 21   | 21  | 22   | 23   | 22   | 21   |
|           | MEAN:           | **   | 12   | 10   | 8    | 11   | 11   | 15   | 19  | 18   | 23   | 22   | 21   |
|           | MINIMUM:        | **   | 7    | 7    | 4    | 6    | 8    | 8    | 16  | 13   | 22   | 21   | 21   |
|           | DAYS OF RECORD: | 0    | 7    | 32   | 43   | 25   | 25   | 42   | 4   | 4    | 3    | 2    | 1    |

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1961-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | **   | 13   | 14   | 12   | 11   | 16   | 22   | 22  | 24   | 28   | 23   | 21   |
|                     | MEAN:           | **   | 11   | 11   | 8    | 9    | 13   | 15   | 19  | 19   | 23   | 22   | 21   |
|                     | MINIMUM:        | **   | 7    | 7    | 6    | 6    | 8    | 8    | 16  | 13   | 21   | 21   | 20   |
|                     | DAYS OF RECORD: | 0    | 3    | 9    | 16   | 6    | 10   | 9    | 6   | 7    | 6    | 3    | 3    |

## COYOTE CREEK BASIN

USGS: 11-1700. COYOTE CREEK NEAR MADRONE, CALIF.  
DWR: E-6-4250

**LOCATION**--LAT 37 10 6, LONG 121 38 55, SEC. 0, T.0 , R.0 ,  
NEAR SOUTHEAST CORNER OF LA LAGUNA SECA GRANT, ON RIGHT BANK 1.2 MILES  
DOWNSTREAM FROM ANDERSON DAM AND 1.8 MILES NORTHEAST OF MADRONE,  
SANTA CLARA COUNTY.  
**ALTITUDE OF GAGE**--375 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA**--196 SQ. MI.  
**RECORDS AVAILABLE**--273 PERIODIC OBSERVATIONS FROM FEBRUARY 1950 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE**--66.0 CFS FOR 61 YEARS OF RECORD.  
**REMARKS**--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
**EXTREMES**--PERIODIC DATA:  
MAXIMUM = 27 DEG. C, AUG. 5, 1964  
MINIMUM = 5 DEG. C, DEC. 8, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 21   | 17   | 14   | 13   | 14   | 14   | 18   | 20  | 23   | 24   | 27   | 24   |
|                     | MEAN:           | 15   | 14   | 12   | 10   | 11   | 12   | 13   | 14  | 14   | 17   | 16   | 17   |
|                     | MINIMUM:        | 11   | 10   | 5    | 6    | 6    | 9    | 8    | 10  | 12   | 11   | 11   | 10   |
|                     | DAYS OF RECORD: | 20   | 22   | 18   | 26   | 28   | 24   | 27   | 30  | 18   | 24   | 15   | 21   |

USGS: 11-1715. COYOTE CREEK NEAR EDENVALE, CALIF.  
DWR: E-6-4150

**LOCATION**--LAT 37 16 15, LONG 121 47 47, SEC. 0, T.0 , R.0 ,  
AT EAST BOUNDARY OF SANTA TERESA GRANT, ON LEFT BANK AT THE NARROWS,  
1.5 MILES NORTHEAST OF EDENVALE AND 7 MILES SOUTH OF SAN JOSE,  
SANTA CLARA COUNTY.  
**ALTITUDE OF GAGE**--190 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA**--229 SQ. MI.  
**RECORDS AVAILABLE**--40 PERIODIC OBSERVATIONS FROM APRIL 1951 THROUGH MAY 1962.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE**--  
**REMARKS**--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
**EXTREMES**--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JULY 31, 1958  
MINIMUM = 6 DEG. C, FEB. 1, 1955

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-62             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 14   | 13   | 10   | 8    | 11   | 16   | 18   | 23  | 19   | 24   | 22   | 22   |
|                     | MEAN:           | 13   | 12   | 10   | 8    | 9    | 14   | 15   | 18  | 18   | 20   | 21   | 17   |
|                     | MINIMUM:        | 11   | 12   | 10   | 8    | 6    | 13   | 13   | 13  | 17   | 14   | 18   | 10   |
|                     | DAYS OF RECORD: | 4    | 3    | 1    | 1    | 4    | 2    | 6    | 6   | 2    | 3    | 5    | 3    |

USGS: 11-1721. UPPER PENITENCIA CREEK AT SAN JOSE, CALIF.  
DWR: E-6-9230

**LOCATION**--LAT 37 23 43, LONG 121 49 38, SEC. 0, T.0 , R.0 ,  
ON NORTH BOUNDARY OF SAN JOSE PALA GRANT, ON LEFT BANK AT DOWNSTREAM  
SIDE OF COUNTY ROAD BRIDGE, 0.1 MILE UPSTREAM FROM DUTARD CREEK, NEAR  
NORTHEAST LIMITS OF SAN JOSE, SANTA CLARA COUNTY.  
**ALTITUDE OF GAGE**--265 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA**--21.5 SQ. MI.  
**RECORDS AVAILABLE**--53 PERIODIC OBSERVATIONS FROM JANUARY 1961 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE**--4.59 CFS FOR 6 YEARS OF RECORD.  
**REMARKS**--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
RECORDS FURNISHED BY SANTA CLARA VALLEY WATER CONSERVATION DISTRICT.  
**EXTREMES**--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JULY 31, 1963  
MINIMUM = 3 DEG. C, JAN. 11, 1963

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1961-68             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 15   | 16   | 14   | 14   | 12   | 14   | 14   | 14  | 16   | 24   | 18   | 21   |
|                     | MEAN:           | 15   | 13   | 10   | 7    | 10   | 11   | 12   | 13  | 15   | 22   | 18   | 18   |
|                     | MINIMUM:        | 15   | 7    | 6    | 3    | 7    | 8    | 9    | 11  | 13   | 18   | 18   | 17   |
|                     | DAYS OF RECORD: | 1    | 5    | 5    | 9    | 5    | 5    | 5    | 5   | 4    | 5    | 1    | 3    |

## COYOTE CREEK BASIN

USGS: 11-1722.2 ARROYO DE LOS COCHES NEAR MILPITAS, CALIF.  
DWR: E-6-4050

LOCATION.--LAT 37 26 38, LONG 121 51 45, NW1/4 SEC. 4, T.6 S, R.1 E,  
200 FT ABOVE CALAVERAS ROAD BRIDGE, 2.6 MILES NORTHEAST OF MILPITAS,  
SANTA CLARA COUNTY.  
ALTITUDE OF GAGE.--320 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--  
RECORDS AVAILABLE.--20 PERIODIC OBSERVATIONS FROM SEPTEMBER 1959 THROUGH FEBRUARY 1962.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, JUNE 27, 1961  
MINIMUM = .6 DEG. C, DEC. 31, 1959

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-62             | MAXIMUM:        | 16   | 15   | 9    | 11   | 14   | 16   | 13   | 14  | 21   | 16   | **   | 16   |
|                     | MEAN:           | 16   | 15   | 8    | 11   | 12   | 16   | 12   | 14  | 19   | 16   | **   | 16   |
|                     | MINIMUM:        | 16   | 15   | 6    | 11   | 9    | 16   | 11   | 13  | 18   | 16   | **   | 16   |
|                     | DAYS OF RECORD: | 1    | 1    | 3    | 1    | 2    | 1    | 3    | 3   | 3    | 1    | 0    | 1    |

## ALAMEDA CREEK BASIN

USGS: 11-1740. SAN ANTONIO CREEK NEAR SUNOL, CALIF.  
DWR: E-5-1650

LOCATION.--LAT 37 34 39, LONG 121 51 24, SEC. 0, T.0, R.0,  
IN VALLE DE SAN JOSE GRANT, ON RIGHT BANK 0.4 MILE UPSTREAM FROM  
CALAVERAS ROAD BRIDGE, 0.85 MILE ABOVE MOUTH, AND 2 MILES SOUTHEAST OF  
SUNOL, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--272 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--37.0 SQ. MI.  
RECORDS AVAILABLE.--40 PERIODIC OBSERVATIONS FROM MARCH 1960 THROUGH MARCH 1965.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--9.56 CFS FOR 23 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN FEBRUARY 1965.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 29 DEG. C, SEP. 3, 1963  
MINIMUM = 6 DEG. C, MAR. 25, 1960

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-65             | MAXIMUM:        | 13   | 14   | 12   | 8    | 13   | 21   | 26   | 21  | 23   | 23   | 19   | 29   |
|                     | MEAN:           | 13   | 14   | 10   | 8    | 11   | 12   | 16   | 18  | 18   | 21   | 19   | 22   |
|                     | MINIMUM:        | 13   | 14   | 7    | 8    | 9    | 6    | 6    | 14  | 13   | 18   | 19   | 16   |
|                     | DAYS OF RECORD: | 1    | 2    | 2    | 2    | 4    | 8    | 5    | 8   | 2    | 3    | 1    | 2    |

USGS: 11-1760. ARROYO MOCHO NEAR LIVERMORE, CALIF.  
DWR: E-5-1450

LOCATION.--LAT 37 37 35, LONG 121 42 13, NW1/4 SEC. 36, T.3 S, R.2 E,  
ON RIGHT BANK 100 FT DOWNSTREAM FROM MINES ROAD BRIDGE, 2.4 MILES  
UPSTREAM FROM UNNAMED TRIBUTARY, AND 5.2 MILES SOUTHEAST OF LIVERMORE,  
ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--746 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--38.2 SQ. MI.  
RECORDS AVAILABLE.--39 PERIODIC OBSERVATIONS FROM FEBRUARY 1960 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--4.12 CFS FOR 22 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 29 DEG. C, AUG. 1, 1967  
MINIMUM = 7 DEG. C, DEC. 30, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             | MAXIMUM:        | 22   | 19   | 15   | 10   | 15   | 13   | 18   | 21  | 20   | 21   | 29   | **   |
|                     | MEAN:           | 21   | 19   | 12   | 8    | 11   | 11   | 14   | 18  | 18   | 21   | 26   | **   |
|                     | MINIMUM:        | 19   | 18   | 7    | 7    | 8    | 9    | 9    | 16  | 16   | 21   | 23   | **   |
|                     | DAYS OF RECORD: | 2    | 2    | 5    | 5    | 6    | 2    | 5    | 4   | 5    | 1    | 2    | 0    |

# ALAMEDA CREEK BASIN

USGS: 11-1762. ARROYO MOCHO NEAR PLEASANTON, CALIF.  
DWR: E-5-1410

LOCATION.--LAT 37 41 19, LONG 121 52 41, SEC. 0, T.0 , R.0 ,  
IN SANTA RITA GRANT, ON LEFT BANK 320 FT DOWNSTREAM FROM SANTA RITA  
ROAD, 0.7 MILE UPSTREAM FROM TASSAJARA CREEK, AND 1.8 MILES NORTH OF  
PLEASANTON, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--329 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--143 SQ. MI.  
RECORDS AVAILABLE.--35 PERIODIC OBSERVATIONS FROM NOVEMBER 1962 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 32 DEG. C, AUG. 2, 1966  
MINIMUM = 6 DEG. C, DEC. 20, 1963

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE_RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1963-68             | MAXIMUM:        | 18   | 12   | 11   | **   | 14   | 11   | 21   | 16  | 27   | 24   | 32   | 20   |
|                     | MEAN:           | 17   | 10   | 8    | **   | 12   | 11   | 17   | 14  | 18   | 21   | 24   | 19   |
|                     | MINIMUM:        | 16   | 9    | 6    | **   | 8    | 10   | 12   | 13  | 16   | 19   | 20   | 18   |
|                     | DAYS OF RECORD: | 2    | 3    | 4    | 0    | 2    | 3    | 3    | 2   | 5    | 3    | 4    | 4    |

USGS: 11-1764. ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.  
DWR: E-5-1425 ARROYO VALLE ABOVE LANG CANYON.

LOCATION.--LAT 37 33 0, LONG 121 39 57, SE1/4 SEC. 29, T.4 N, R.3 E,  
ON LEFT BANK 700 FT UPSTREAM FROM UNNAMED TRIBUTARY, 1,200 FT UPSTREAM  
FROM LANG CANYON, AND 10.5 MILES SOUTHEAST OF LIVERMORE,  
ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--800 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--126 SQ. MI.  
RECORDS AVAILABLE.--39 PERIODIC OBSERVATIONS FROM NOVEMBER 1963 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 28 DEG. C, AUG. 30, 1967  
MINIMUM = 7 DEG. C, JAN. 21, 1964, JAN. 23, 1964, NOV. 18, 1964

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE_RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964-68             | MAXIMUM:        | **   | 16   | 12   | 9    | 9    | 16   | 20   | 21  | 26   | **   | 28   | **   |
|                     | MEAN:           | **   | 11   | 10   | 8    | 9    | 13   | 14   | 20  | 22   | **   | 27   | **   |
|                     | MINIMUM:        | **   | 7    | 8    | 7    | 9    | 12   | 9    | 18  | 16   | **   | 26   | **   |
|                     | DAYS OF RECORD: | 0    | 4    | 5    | 6    | 2    | 4    | 7    | 4   | 5    | 0    | 2    | 0    |

## ALAMEDA CREEK BASIN

USGS: 11-1765. ARROYO VALLE NEAR LIVERMORE, CALIF.  
DWR: E-5-1400

LOCATION.--LAT 37 37 24, LONG 121 45 28, SEC. 0, T.0, R.0,  
IN VALLE DE SAN JOSE GRANT, ON RIGHT BANK 900 FT DOWNSTREAM FROM  
HIGHWAY BRIDGE, 1.1 MILES UPSTREAM FROM DRY CREEK, 4.1 MILES SOUTH OF  
LIVERMORE, AND 6.9 MILES SOUTHEAST OF PLEASANTON, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--510 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--147 SQ. MI.  
RECORDS AVAILABLE.--178 PERIODIC OBSERVATIONS FROM JANUARY 1952 THROUGH MAY 1968.  
CONTINUOUS RECORD FROM OCTOBER 1959 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--30.6 CFS FOR 28 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXIBEMES.--CONTINUOUS DATA:

MAXIMUM = 32 DEG. C, JULY 21, 1960  
MINIMUM = 4 DEG. C, JAN. 2, 1966, DEC. 28, 1966, DEC. 14, 1967  
PERIODIC DATA:  
MAXIMUM = 29 DEG. C, JULY 24, 1958  
MINIMUM = 6 DEG. C, FEB. 27, 1962, JAN. 22, 1964, FEB. 9, 1966

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960          | MAXIMUM:        | **   | **   | **   | 14   | 14   | 20   | 21   | 23  | 31   | 32   | 23   | **   |
|               | MEAN:           | **   | **   | **   | 10   | 12   | 17   | 19   | 18  | 26   | 27   | 23   | **   |
|               | MINIMUM:        | **   | **   | **   | 7    | 8    | 14   | 14   | 16  | 22   | 21   | 23   | **   |
| 1961          | MAXIMUM:        | **   | 10   | 13   | 13   | 17   | 17   | 21   | 17  | 24   | 26   | 27   | **   |
|               | MEAN:           | **   | 10   | 12   | 11   | 14   | 15   | 18   | 15  | 19   | 23   | 22   | **   |
|               | MINIMUM:        | **   | 10   | 9    | 9    | 12   | 13   | 15   | 13  | 14   | 20   | 21   | **   |
| 1963          | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
| 1960-<br>1963 | MAXIMUM:        | **   | 10   | 13   | 14   | 17   | 20   | 21   | 23  | 31   | 32   | 27   | **   |
|               | MEAN:           | **   | 10   | 12   | 11   | 13   | 16   | 19   | 17  | 23   | 25   | 23   | **   |
|               | MINIMUM:        | **   | 10   | 9    | 7    | 8    | 13   | 14   | 13  | 14   | 20   | 21   | **   |
|               | DAYS OF RECORD: | 0    | 1    | 5    | 40   | 56   | 56   | 60   | 58  | 59   | 60   | 28   | 0    |

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964          | MAXIMUM:        | 26   | 17   | 12   | 13   | 13   | 18   | 24   | 26  | 30   | 30   | 27   | **   |
|               | MEAN:           | 17   | 13   | 9    | 9    | 10   | 13   | 17   | 19  | 21   | 23   | 22   | **   |
|               | MINIMUM:        | 12   | 9    | 6    | 7    | 7    | 8    | 11   | 13  | 14   | 16   | 17   | **   |
| 1965          | MAXIMUM:        | **   | **   | 8    | 12   | 14   | 17   | 22   | 24  | 27   | 28   | 29   | **   |
|               | MEAN:           | **   | **   | 8    | 9    | 11   | 13   | 14   | 18  | 19   | 22   | 22   | **   |
|               | MINIMUM:        | **   | **   | 7    | 6    | 7    | 9    | 8    | 12  | 15   | 15   | 16   | **   |
| 1966          | MAXIMUM:        | **   | 11   | 11   | 11   | 12   | 19   | 22   | 26  | 31   | 29   | **   | **   |
|               | MEAN:           | **   | 9    | 7    | 8    | 8    | 12   | 16   | 19  | 21   | 22   | **   | **   |
|               | MINIMUM:        | **   | 8    | 5    | 4    | 5    | 6    | 11   | 13  | 14   | 17   | **   | **   |
| 1967          | MAXIMUM:        | 17   | 17   | 13   | 12   | 14   | 17   | 18   | 26  | 28   | 29   | 29   | 26   |
|               | MEAN:           | 14   | 13   | 9    | 9    | 10   | 12   | 12   | 17  | 20   | 23   | 23   | 22   |
|               | MINIMUM:        | 12   | 9    | 4    | 5    | 7    | 7    | 8    | 9   | 13   | 17   | 17   | 18   |
| 1968          | MAXIMUM:        | 21   | 11   | 12   | 12   | 17   | 21   | 24   | 26  | 24   | **   | **   | **   |
|               | MEAN:           | 18   | 11   | 9    | 8    | 12   | 14   | 16   | 18  | 20   | **   | **   | **   |
|               | MINIMUM:        | 16   | 11   | 4    | 5    | 7    | 10   | 11   | 13  | 16   | **   | **   | **   |
| 1964-<br>1968 | MAXIMUM:        | 26   | 17   | 13   | 13   | 17   | 21   | 24   | 26  | 31   | 30   | 29   | 26   |
|               | MEAN:           | 16   | 12   | 8    | 9    | 10   | 13   | 15   | 18  | 20   | 23   | 22   | 22   |
|               | MINIMUM:        | 12   | 8    | 4    | 4    | 5    | 6    | 8    | 9   | 13   | 15   | 16   | 18   |
|               | DAYS OF RECORD: | 48   | 60   | 120  | 155  | 142  | 153  | 150  | 155 | 121  | 115  | 61   | 25   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1952-68             | MAXIMUM:        | 19   | 14   | 14   | 18   | 14   | 18   | 21   | 24  | 24   | 29   | 28   | 22   |
|                     | MEAN:           | 18   | 11   | 11   | 9    | 11   | 12   | 16   | 18  | 19   | 21   | 23   | 18   |
|                     | MINIMUM:        | 17   | 9    | 7    | 6    | 6    | 7    | 7    | 14  | 15   | 17   | 19   | 13   |
|                     | DAYS OF RECORD: | 3    | 3    | 19   | 27   | 21   | 20   | 22   | 20  | 15   | 17   | 7    | 4    |

## ALAMEDA CREEK BASIN

USGS: 11-1766. ARROYO VALLE AT PLEASANTON, CALIF.  
DWR: E-5-1350

LOCATION.--LAT 37 40 2, LONG 121 53 2, SEC. 0, T.0, R.0,  
IN VALLE DE SAN JOSE GRANT, ON RIGHT BANK 0.4 MILE NORTHWEST OF  
PLEASANTON AND 5.8 MILES WEST OF LIVERMORE, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--312 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--171 SQ. MI.  
RECORDS AVAILABLE.--33 PERIODIC OBSERVATIONS FROM JANUARY 1953 THROUGH APRIL 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--30.2 CFS FOR 10 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 20 DEG. C, MAY 2, 1963, OCT. 9, 1967  
MINIMUM = 6 DEG. C, APR. 9, 1958

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             | MAXIMUM:        | 20   | **   | 13   | 12   | 13   | 14   | 18   | 20  | 16   | **   | **   | **   |
|                     | MEAN:           | 20   | **   | 13   | 9    | 10   | 13   | 14   | 17  | 16   | **   | **   | **   |
|                     | MINIMUM:        | 20   | **   | 13   | 7    | 7    | 11   | 6    | 13  | 16   | **   | **   | **   |
|                     | DAYS OF RECORD: | 1    | 0    | 1    | 6    | 9    | 5    | 7    | 3   | 1    | 0    | 0    | 0    |

USGS: 11-1769. ARROYO DE LA LAGUNA AT VERONA, CALIF.  
DWR: E-5-1310 ARROYO DE LA LAGUNA VERONA BRIDGE NEAR PLEASANTON.

LOCATION.--LAT 37 37 36, LONG 121 52 54, SEC. 0, T.0, R.0,  
AT BRIDGE, ON STATE HIGHWAY 21, 2.1 MILES SOUTH OF PLEASANTON AND  
8 MILES NORTHEAST OF NILES, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--280 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--  
RECORDS AVAILABLE.--16 PERIODIC OBSERVATIONS FROM OCTOBER 1951 THROUGH JUNE 1957.  
CONTINUOUS RECORD FROM OCTOBER 1958 THROUGH SEPTEMBER 1963.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 27 DEG. C, AUG. 6, 1960  
MINIMUM = 3 DEG. C, JAN. 12, 1963, JAN. 13, 1963, JAN. 17, 1963  
PERIODIC DATA:  
MAXIMUM = 19 DEG. C, JULY 30, 1956  
MINIMUM = 7 DEG. C, JAN. 9, 1952

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | 26   | 24   | 24   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | 22   | 21   | 19   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | 19   | 18   | 16   |
| 1960      | MAXIMUM:        | 19   | 13   | 13   | 11   | 12   | 17   | 18   | 18  | **   | 26   | 27   | 23   |
|           | MEAN:           | 18   | 11   | 11   | 9    | 10   | 14   | 14   | 14  | **   | 22   | 22   | 20   |
|           | MINIMUM:        | 16   | 10   | 7    | 7    | 8    | 9    | 9    | 12  | **   | 21   | 19   | 18   |
| 1961      | MAXIMUM:        | **   | 16   | 13   | 14   | 14   | 17   | 22   | 21  | 18   | **   | 23   | 22   |
|           | MEAN:           | **   | 13   | 9    | 8    | 12   | 13   | 16   | 16  | 16   | **   | 21   | 20   |
|           | MINIMUM:        | **   | 9    | 7    | 3    | 9    | 9    | 10   | 13  | 14   | **   | 16   | 18   |
| 1962      | MAXIMUM:        | **   | 13   | 13   | 16   | 12   | 17   | 19   | 18  | 23   | 23   | 22   | 19   |
|           | MEAN:           | **   | 13   | 9    | 8    | 9    | 11   | 16   | 15  | 19   | 20   | 19   | 18   |
|           | MINIMUM:        | **   | 12   | 5    | 4    | 4    | 8    | 13   | 13  | 15   | 18   | 17   | 15   |
| 1963      | MAXIMUM:        | 19   | 16   | 14   | 13   | 14   | 14   | 16   | 20  | 24   | **   | **   | **   |
|           | MEAN:           | 16   | 13   | 9    | 6    | 13   | 12   | 13   | 17  | 19   | **   | **   | **   |
|           | MINIMUM:        | 13   | 8    | 3    | 3    | 11   | 7    | 11   | 11  | 16   | **   | **   | **   |
| 1959-1963 | MAXIMUM:        | 19   | 16   | 14   | 16   | 14   | 17   | 22   | 21  | 24   | 26   | 27   | 24   |
|           | MEAN:           | 17   | 13   | 10   | 8    | 11   | 13   | 15   | 16  | 18   | 21   | 21   | 19   |
|           | MINIMUM:        | 13   | 8    | 3    | 3    | 4    | 7    | 9    | 11  | 14   | 18   | 16   | 15   |
|           | DAYS OF RECORD: | 37   | 44   | 102  | 107  | 109  | 121  | 109  | 115 | 63   | 53   | 105  | 57   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1952-57             | MAXIMUM:        | 14   | **   | **   | 9    | 10   | 12   | 18   | 17  | 18   | 19   | 19   | 18   |
|                     | MEAN:           | 14   | **   | **   | 8    | 10   | 12   | 18   | 14  | 18   | 19   | 18   | 18   |
|                     | MINIMUM:        | 14   | **   | **   | 7    | 10   | 12   | 18   | 11  | 17   | 19   | 17   | 18   |
|                     | DAYS OF RECORD: | 2    | 0    | 0    | 3    | 1    | 1    | 1    | 2   | 2    | 1    | 2    | 1    |

# ALAMEDA CREEK BASIN

USGS: 11-1790. ALAMEDA CREEK NEAR NILES, CALIF.  
DWR: E-5-1150

LOCATION.--LAT 37 35 14, LONG 121 57 35, NW1/4 SEC. 15, T.4 S, R.1 W,  
ON RIGHT BANK 0.3 MILE DOWNSTREAM FROM RAILROAD BRIDGE AND 1.2 MILES  
NORTHEAST OF NILES, ALAMEDA COUNTY.

ALTITUDE OF GAGE.--86 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--633 SQ. MI.

RECORDS AVAILABLE.--351 PERIODIC OBSERVATIONS FROM FEBRUARY 1950 THROUGH SEPTEMBER 1968.

CONTINUOUS RECORD FROM OCTOBER 1955 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--121 CFS FOR 76 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1916.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 31 DEG. C, JUNE 1, 1960

MINIMUM = 0 DEG. C, JAN. 6, 1961, JAN. 7, 1961

PERIODIC DATA:

MAXIMUM = 27 DEG. C, SEP. 2, 1965

MINIMUM = 4 DEG. C, JAN. 15, 1962, JAN. 31, 1963

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR            |          | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------------|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1956            | MAXIMUM: | **   | **   | **   | **   | **   | **   | **   | **  | **   | 23   | 24   | 23   |
|                 | MEAN:    | **   | **   | **   | **   | **   | **   | **   | **  | **   | 20   | 20   | 19   |
|                 | MINIMUM: | **   | **   | **   | **   | **   | **   | **   | **  | **   | 18   | 15   | 16   |
| 1957            | MAXIMUM: | 19   | 17   | 13   | 11   | 16   | 18   | 19   | 21  | 29   | **   | **   | **   |
|                 | MEAN:    | 15   | 12   | 8    | 7    | 12   | 14   | 16   | 18  | 22   | **   | **   | **   |
|                 | MINIMUM: | 11   | 7    | 3    | 3    | 7    | 11   | 11   | 15  | 17   | **   | **   | **   |
| 1958            | MAXIMUM: | **   | 14   | 16   | 13   | 16   | 13   | 17   | 20  | 22   | 21   | 26   | 23   |
|                 | MEAN:    | **   | 13   | 11   | 9    | 13   | 11   | 13   | 17  | 20   | 21   | 26   | 23   |
|                 | MINIMUM: | **   | 12   | 8    | 4    | 9    | 8    | 9    | 14  | 17   | 20   | 26   | 23   |
| 1959            | MAXIMUM: | 18   | 9    | 11   | 14   | 12   | 17   | 19   | 22  | 23   | **   | **   | 23   |
|                 | MEAN:    | 17   | 9    | 9    | 11   | 10   | 14   | 19   | 21  | 23   | **   | **   | 22   |
|                 | MINIMUM: | 16   | 9    | 8    | 8    | 8    | 13   | 18   | 21  | 23   | **   | **   | 17   |
| 1960            | MAXIMUM: | 23   | 17   | 12   | 12   | 13   | 19   | 23   | 26  | 31   | **   | 27   | 23   |
|                 | MEAN:    | 19   | 15   | 9    | 8    | 11   | 16   | 19   | 21  | 26   | **   | 25   | 21   |
|                 | MINIMUM: | 16   | 9    | 7    | 4    | 9    | 11   | 15   | 16  | 22   | **   | 22   | 18   |
| 1961            | MAXIMUM: | 21   | 15   | 14   | 13   | 14   | 18   | 23   | 22  | 24   | **   | **   | **   |
|                 | MEAN:    | 18   | 12   | 8    | 7    | 13   | 15   | 19   | 20  | 22   | **   | **   | **   |
|                 | MINIMUM: | 16   | 9    | 5    | 0    | 12   | 13   | 14   | 17  | 19   | **   | **   | **   |
| 1962            | MAXIMUM: | **   | **   | **   | 10   | 13   | 15   | 21   | 21  | 23   | 23   | 24   | 24   |
|                 | MEAN:    | **   | **   | **   | 7    | 11   | 12   | 19   | 20  | 21   | 22   | 22   | 19   |
|                 | MINIMUM: | **   | **   | **   | 4    | 7    | 9    | 16   | 18  | 18   | 21   | 19   | 14   |
| 1963            | MAXIMUM: | 21   | 16   | 14   | 9    | 16   | 16   | 17   | 22  | 23   | 25   | 24   | 24   |
|                 | MEAN:    | 17   | 14   | 11   | 6    | 14   | 14   | 14   | 18  | 22   | 22   | 22   | 21   |
|                 | MINIMUM: | 13   | 9    | 5    | 3    | 12   | 11   | 11   | 16  | 16   | 18   | 18   | 18   |
| 1964            | MAXIMUM: | 21   | 16   | 10   | 11   | 12   | 18   | 19   | 22  | 25   | 24   | 24   | 21   |
|                 | MEAN:    | 17   | 13   | 7    | 7    | 9    | 13   | 17   | 18  | 21   | 22   | 21   | 18   |
|                 | MINIMUM: | 10   | 8    | 4    | 5    | 7    | 9    | 14   | 13  | 15   | 21   | 17   | 16   |
| 1965            | MAXIMUM: | 19   | 15   | 15   | 12   | 13   | 17   | 20   | 21  | 21   | 24   | 24   | 22   |
|                 | MEAN:    | 16   | 11   | 11   | 9    | 11   | 13   | 14   | 18  | 18   | 22   | 23   | 19   |
|                 | MINIMUM: | 14   | 7    | 7    | 7    | 8    | 11   | 9    | 14  | 16   | 17   | 20   | 15   |
| 1966            | MAXIMUM: | 18   | 16   | 11   | 10   | 13   | 20   | 24   | 24  | 24   | 26   | 24   | 24   |
|                 | MEAN:    | 17   | 14   | 9    | 8    | 9    | 13   | 19   | 21  | 22   | 23   | 23   | 22   |
|                 | MINIMUM: | 12   | 10   | 5    | 7    | 7    | 9    | 16   | 18  | 18   | 20   | 21   | 19   |
| 1967            | MAXIMUM: | 24   | 16   | 12   | 10   | 13   | 13   | 16   | 25  | 24   | 27   | 24   | 22   |
|                 | MEAN:    | 18   | 13   | 9    | 8    | 10   | 10   | 10   | 17  | 19   | 23   | 22   | 21   |
|                 | MINIMUM: | 14   | 9    | 6    | 6    | 10   | 10   | 10   | 10  | 15   | 20   | 20   | 20   |
| 1968            | MAXIMUM: | 22   | 18   | 10   | 9    | 18   | 16   | 18   | 19  | 24   | 23   | 25   | 25   |
|                 | MEAN:    | 18   | 15   | 7    | 8    | 10   | 12   | 16   | 17  | 20   | 23   | 22   | 22   |
|                 | MINIMUM: | 17   | 10   | 4    | 7    | 7    | 10   | 14   | 15  | 15   | 23   | 18   | 19   |
| 1956-1968       | MAXIMUM: | 24   | 18   | 16   | 14   | 18   | 20   | 24   | 26  | 31   | 27   | 27   | 25   |
|                 | MEAN:    | 17   | 13   | 9    | 8    | 11   | 13   | 16   | 19  | 21   | 22   | 23   | 21   |
|                 | MINIMUM: | 10   | 7    | 3    | 0    | 7    | 8    | 9    | 10  | 15   | 17   | 15   | 14   |
| DAYS OF RECORD: |          | 218  | 231  | 259  | 297  | 306  | 324  | 309  | 303 | 260  | 183  | 209  | 242  |



## ALAMEDA CREEK BASIN

USGS: 11-1790.--Continued

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>QE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 21   | 16   | 15   | 16   | 16   | 17   | 22   | 23  | 26   | 23   | 27   | 27   |
| MEAN:               | 17   | 12   | 9    | 9    | 11   | 12   | 17   | 18  | 21   | 21   | 22   | 20   |
| MINIMUM:            | 12   | 8    | 6    | 4    | 6    | 6    | 12   | 14  | 16   | 16   | 19   | 11   |
| DAYS OF RECORD:     | 24   | 27   | 30   | 35   | 46   | 38   | 31   | 28  | 27   | 21   | 22   | 22   |

USGS: 11-1805. DRY CREEK AT UNION CITY, CALIF.  
DWR: E-5-1076

LOCATION.--LAT 37 36 22, LONG 122 1 22, SEC. 0, T.0 , R.0  
IN ARROYO DE LA ALAMEDA GRANT, ON RIGHT BANK 900 FT DOWNSTREAM FROM  
BRIDGE ON STATE HIGHWAY 9 IN DECOTO DISTRICT IN UNION CITY AND  
1.7 MILES UPSTREAM FROM MOUTH, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--85 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--7.41 SQ. MI.  
RECORDS AVAILABLE.--33 PERIODIC OBSERVATIONS FROM FEBRUARY 1960 THROUGH MARCH 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--1.40 CFS FOR 11 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, JULY 1, 1963  
MINIMUM = 5 DEG. C, FEB. 23, 1960

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>QE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 14   | 12   | 9    | 13   | 13   | 14   | 17   | 18  | **   | 22   | **   | **   |
| MEAN:               | 14   | 12   | 9    | 9    | 10   | 11   | 13   | 16  | **   | 22   | **   | **   |
| MINIMUM:            | 14   | 12   | 8    | 7    | 5    | 6    | 10   | 13  | **   | 22   | **   | **   |
| DAYS OF RECORD:     | 1    | 1    | 2    | 3    | 10   | 8    | 4    | 3   | 0    | 1    | 0    | 0    |

USGS: 11-1807. PATTERSON CREEK AT UNION CITY, CALIF.  
DWR: E-5-2100

LOCATION.--LAT 37 35 9, LONG 122 2 50, SEC. 0, T.0 , R.0 ,  
IN PORTERO DE LOS CERRITOS GRANT, ON RIGHT BANK 0.2 MILE UPSTREAM FROM  
BRIDGE ON STATE HIGHWAY 17, 0.1 MILE BELOW EFFLUENCE, AND 2.0 MILES  
SOUTHWEST OF DECOTO DISTRICT IN UNION CITY, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--4 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--  
RECORDS AVAILABLE.--28 PERIODIC OBSERVATIONS FROM FEBRUARY 1960 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--42.0 CFS FOR 9 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
PRIOR TO OCTOBER 26, 1966, AT SITE 0.2 MILE DOWNSTREAM.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 30 DEG. C, JUNE 3, 1968  
MINIMUM = 6 DEG. C, FEB. 28, 1962

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>QE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 12   | **   | 16   | 9    | 14   | **   | 16   | 23  | 30   | **   | **   | **   |
| MEAN:               | 12   | **   | 12   | 8    | 9    | **   | 14   | 21  | 30   | **   | **   | **   |
| MINIMUM:            | 12   | **   | 8    | 7    | 6    | **   | 13   | 19  | 30   | **   | **   | **   |
| DAYS OF RECORD:     | 1    | 0    | 5    | 6    | 7    | 0    | 5    | 3   | 1    | 0    | 0    | 0    |

## ALAMEDA CREEK BASIN

USGS: 11-1807.5 ALAMEDA CREEK AT UNION CITY, CALIF.  
DWR: E-5-1050

LOCATION.--LAT 37 35 46, LONG 122 3 15, SEC. 0, T.0, R.0,  
IN ARROYO DE LA ALAMEDA GRANT, ON LEFT BANK 5 FT DOWNSTREAM FROM BRIDGE  
ON BAKER ROAD, 1 MILE DOWNSTREAM FROM DRY CREEK, AND 1.4 MILES EAST OF  
ALVARADO DISTRICT IN UNION CITY, ALAMEDA COUNTY.

ALTITUDE OF GAGE.--

DRAINAGE AREA.--653 SQ. MI.

RECORDS AVAILABLE.--16 PERIODIC OBSERVATIONS FROM MARCH 1962 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--1.91 CFS FOR 9 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN OCTOBER 1966.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 73 DEG. C, JULY 31, 1967

MINIMUM = 7 DEG. C, JAN. 1, 1966

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-66             | MAXIMUM:        | 16   | **   | 9    | 7    | **   | 11   | 22   | **  | **   | **   | **   | **   |
|                     | MEAN:           | 16   | **   | 9    | 7    | **   | 10   | 22   | **  | **   | **   | **   | **   |
|                     | MINIMUM:        | 16   | **   | 9    | 7    | **   | 9    | 22   | **  | **   | **   | **   | **   |
|                     | DAYS OF RECORD: | 1    | 0    | 1    | 1    | 0    | 2    | 1    | 0   | 0    | 0    | 0    | 0    |
|                     |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967-68             | MAXIMUM:        | 16   | 14   | 12   | 11   | **   | **   | **   | 14  | 22   | 23   | 20   | 20   |
|                     | MEAN:           | 16   | 14   | 12   | 11   | **   | **   | **   | 14  | 22   | 23   | 20   | 20   |
|                     | MINIMUM:        | 16   | 14   | 12   | 10   | **   | **   | **   | 14  | 22   | 23   | 20   | 20   |
|                     | DAYS OF RECORD: | 1    | 1    | 1    | 2    | 0    | 0    | 0    | 1   | 1    | 1    | 1    | 1    |
|                     |                 |      |      |      |      |      |      |      |     |      |      |      |      |

## SAN LORENZO RIVER BASIN

USGS: 11-1810. SAN LORENZO CREEK AT HAYWARD, CALIF.  
DWR: E-4-1100

LOCATION.--LAT 37 41 11, LONG 122 3 44, SEC. 0, T.0, R.0,  
IN SAN LORENZO GRANT, ON RIGHT BANK AT BRIDGE ON B STREET, JUST OUTSIDE  
CITY LIMITS OF HAYWARD AND 0.5 MILE DOWNSTREAM FROM CROW CREEK,  
ALAMEDA COUNTY.

ALTITUDE OF GAGE.--133 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--37.5 SQ. MI.

RECORDS AVAILABLE.--110 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH JULY 1967.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--14.3 CFS FOR 22 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN OCTOBER 1962.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 26 DEG. C, AUG. 14, 1964

MINIMUM = 2 DEG. C, JAN. 23, 1962

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-62             | MAXIMUM:        | 15   | 11   | 14   | 12   | 13   | 18   | 17   | 22  | 19   | 21   | **   | 16   |
|                     | MEAN:           | 12   | 8    | 10   | 7    | 10   | 11   | 14   | 16  | 18   | 18   | **   | 15   |
|                     | MINIMUM:        | 9    | 7    | 8    | 2    | 8    | 7    | 11   | 12  | 17   | 16   | **   | 14   |
|                     | DAYS OF RECORD: | 2    | 4    | 3    | 9    | 7    | 10   | 6    | 6   | 3    | 2    | 0    | 2    |
|                     |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1963-67             | MAXIMUM:        | 18   | 14   | 11   | 9    | 9    | 13   | 14   | 20  | 19   | 23   | 26   | 18   |
|                     | MEAN:           | 16   | 11   | 9    | 6    | 8    | 10   | 13   | 14  | 15   | 19   | 21   | 18   |
|                     | MINIMUM:        | 12   | 8    | 4    | 4    | 7    | 8    | 12   | 11  | 13   | 17   | 17   | 18   |
|                     | DAYS OF RECORD: | 6    | 7    | 7    | 5    | 4    | 4    | 4    | 5   | 5    | 5    | 2    | 2    |
|                     |                 |      |      |      |      |      |      |      |     |      |      |      |      |

# SAN LORENZO RIVER BASIN

USGS: 11-1810.4 SAN LORENZO CREEK AT SAN LORENZO, CALIF.  
DWR:

LOCATION.--LAT 37 41 3, LONG 122 8 20, SEC. 0, T.0 , R.0 ,  
IN SAN LORENZO (SOTO) GRANT, ON LEFT BANK 400 FT DOWNSTREAM FROM  
WASHINGTON AVENUE BRIDGE IN SAN LORENZO, AND 1.6 MILES UPSTREAM FROM  
MOUTH, ALAMEDA COUNTY.  
ALTITUDE OF GAGE.--6 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--44.6 SQ. MI.  
RECORDS AVAILABLE.-- 8 PERIODIC OBSERVATIONS FROM OCTOBER 1967 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN OCTOBER 1962.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, SEP. 5, 1968  
MINIMUM = 15 DEG. C, OCT. 24, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1968                |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 21   | 18   | **   | **   | **   | **   | **   | 23  | 25   | **   | 23   | 26   |
| MEAN:               | 19   | 18   | **   | **   | **   | **   | **   | 23  | 25   | **   | 23   | 26   |
| MINIMUM:            | 15   | 18   | **   | **   | **   | **   | **   | 23  | 25   | **   | 23   | 26   |
| DAYS OF RECORD:     | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 1   | 1    | 0    | 1    | 1    |

# CASTRO CREEK BASIN

USGS: 11-1814. WILDCAT CREEK AT RICHMOND, CALIF.  
DWR: E-4-2050

LOCATION.--LAT 37 57 41, LONG 122 21 33, SEC. 0, T.0 , R.0 ,  
IN SAN PABLO GRANT, ON LEFT BANK 200 FT DOWNSTREAM FROM SOUTHERN  
PACIFIC RAILWAY BRIDGE AT EAST CITY LIMITS OF RICHMOND AND 2 MILES  
UPSTREAM FROM MOUTH, CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--21 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--8.67 SQ. MI.  
RECORDS AVAILABLE.--19 PERIODIC OBSERVATIONS FROM OCTOBER 1964 THROUGH MAY 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, MAY 8, 1968  
MINIMUM = 5 DEG. C, FEB. 11, 1966

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 17   | 12   | 12   | 11   | 12   | 14   | 17   | 21  | **   | **   | **   | **   |
| MEAN:               | 17   | 12   | 10   | 11   | 9    | 12   | 13   | 17  | **   | **   | **   | **   |
| MINIMUM:            | 17   | 12   | 8    | 8    | 5    | 10   | 10   | 12  | **   | **   | **   | **   |
| DAYS OF RECORD:     | 1    | 1    | 4    | 5    | 2    | 2    | 2    | 2   | 0    | 0    | 0    | 0    |

# RHEEM CREEK BASIN

USGS: 11-1820.3 RHEEM CREEK AT SAN PABLO, CALIF.  
DWR: E-4-2200

LOCATION.--LAT 37 58 38, LONG 122 21 10, SEC. 0, T.0 , R.0 ,  
IN SAN PABLO GRANT, ON LEFT BANK 50 FT DOWNSTREAM FROM SANTA FE  
RAILWAY BRIDGE AT SAN PABLO AND 0.7 MILE UPSTREAM FROM MOUTH,  
CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--14 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--1.09 SQ. MI.  
RECORDS AVAILABLE.--57 PERIODIC OBSERVATIONS FROM FEBRUARY 1961 THROUGH JULY 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--1.36 CFS FOR 6 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 27 DEG. C, APR. 30, 1962, MAY 19, 1964  
MINIMUM = 5 DEG. C, JAN. 17, 1962

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>DE-RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1961-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 21   | 15   | 14   | 13   | 17   | 18   | 27   | 27  | 23   | 24   | 23   | 18   |
| MEAN:               | 18   | 13   | 10   | 9    | 12   | 16   | 21   | 20  | 19   | 22   | 21   | 17   |
| MINIMUM:            | 13   | 9    | 6    | 5    | 8    | 14   | 14   | 11  | 17   | 19   | 18   | 17   |
| DAYS OF RECORD:     | 5    | 6    | 9    | 4    | 5    | 3    | 5    | 5   | 4    | 5    | 4    | 2    |

# PINOLE CREEK BASIN.

USGS: 11-1821. PINOLE CREEK AT PINOLE, CALIF.  
DWR: E-4-2400

LOCATION.--LAT 37 58 21, LONG 122 14 43, SEC. 0, T.0 , R.0 ,  
IN PINOLE GRANT, ON LEFT BANK 0.2 MILE DOWNSTREAM FROM COUNTY BRIDGE ON  
PINOLE VALLEY ROAD AND 0.8 MILE UPSTREAM FROM PINOLE CITY BOUNDARY,  
CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--170 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--10.0 SQ. MI.  
RECORDS AVAILABLE.-- 9 PERIODIC OBSERVATIONS FROM FEBRUARY 1962 THROUGH APRIL 1962.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--3.60 CFS FOR 28 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY EAST BAY MUNICIPAL UTILITY DISTRICT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 14 DEG. C, APR. 16, 1962  
MINIMUM = 7 DEG. C, FEB. 19, 1962

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962                | MAXIMUM:        | **   | **   | **   | **   | 8    | 12   | 14   | **  | **   | **   | **   | **   |
|                     | MEAN:           | **   | **   | **   | **   | 8    | 10   | 14   | **  | **   | **   | **   | **   |
|                     | MINIMUM:        | **   | **   | **   | **   | 7    | 9    | 13   | **  | **   | **   | **   | **   |
|                     | DAYS OF RECORD: | 0    | 0    | 0    | 0    | 3    | 4    | 2    | 0   | 0    | 0    | 0    | 0    |

# ARROYO DEL HAMBRE BASIN

USGS: 11-1824. ARROYO DEL HAMBRE AT MARTINEZ, CALIF.  
DWR: E-0-4500

LOCATION.--LAT 38 0 12, LONG 122 7 44, SEC. 0, T.0 , R.0 ,  
IN LAS JUNTAS GRANT, ON RIGHT BANK 40 FT UPSTREAM FROM D STREET BRIDGE  
IN MARTINEZ, CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--48 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--15.0 SQ. MI.  
RECORDS AVAILABLE.--29 PERIODIC OBSERVATIONS FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, JULY 5, 1968  
MINIMUM = 7 DEG. C, DEC. 14, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965-68             | MAXIMUM:        | 16   | 14   | 11   | 13   | 10   | 9    | 14   | 14  | 16   | 22   | 19   | 18   |
|                     | MEAN:           | 15   | 13   | 9    | 13   | 10   | 9    | 13   | 14  | 14   | 20   | 18   | 18   |
|                     | MINIMUM:        | 13   | 12   | 7    | 13   | 10   | 8    | 11   | 13  | 14   | 17   | 17   | 17   |
|                     | DAYS OF RECORD: | 4    | 4    | 2    | 1    | 1    | 2    | 2    | 3   | 3    | 2    | 3    | 2    |

# PACHECO CREEK BASIN

USGS: 11-1825. SAN RAMON CREEK AT SAN RAMON, CALIF.  
DWR: E-4-5150

LOCATION.--LAT 37 46 20, LONG 121 59 40, SEC. 8, T.2 S, R.1 W,  
ON RIGHT BANK 0.2 MILE DOWNSTREAM FROM BOLLINGER CREEK AND 1.0 MILE  
SOUTHWEST OF SAN RAMON, CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--530 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--5.89 SQ. MI.  
RECORDS AVAILABLE.--82 PERIODIC OBSERVATIONS FROM DECEMBER 1952 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--2.86 CFS FOR 15 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, AUG. 1, 1966  
MINIMUM = 3 DEG. C, JAN. 3, 1968

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             | MAXIMUM:        | 17   | 13   | 11   | 11   | 12   | 17   | 19   | 20  | 19   | 17   | 26   | 18   |
|                     | MEAN:           | 14   | 11   | 9    | 7    | 8    | 10   | 15   | 16  | 15   | 17   | 22   | 18   |
|                     | MINIMUM:        | 11   | 8    | 4    | 3    | 6    | 5    | 10   | 9   | 13   | 17   | 17   | 18   |
|                     | DAYS OF RECORD: | 4    | 6    | 10   | 9    | 8    | 11   | 8    | 10  | 9    | 2    | 2    | 3    |

## PACHECO CREEK BASIN

USGS: 11-1830. SAN RAMON CREEK AT WALNUT CREEK, CALIF.  
DWR: E-4-5100

LOCATION.--LAT 37 53 4, LONG 122 3 0, SEC. 0, T.0, R.0,  
ON BOUNDARY BET ARROYO DE LAS NUECES Y BOLBONES AND SAN RAMON GRANTS ON  
LEFT BANK AT TOWN OF WALNUT CREEK, 0.3 MI DOWNSTREAM FROM SM TRIB AND  
1.2 MI UPSTREAM FROM CONFLUENCE WITH LAS TRAMPAS CR, CONTRA COSTA CO.  
ALTITUDE OF GAGE.--170 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--50.8 SQ. MI.  
RECORDS AVAILABLE.--107 PERIODIC OBSERVATIONS FROM DECEMBER 1952 THROUGH MARCH 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--14.8 CFS FOR 15 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 28 DEG. C, MAY 2, 1966  
MINIMUM = 3 DEG. C, JAN. 5, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             | MAXIMUM:        | 21   | 14   | 12   | 9    | 12   | 16   | 23   | 28  | 24   | 25   | 25   | 23   |
|                     | MEAN:           | 16   | 11   | 8    | 7    | 10   | 12   | 15   | 17  | 19   | 23   | 21   | 21   |
|                     | MINIMUM:        | 9    | 8    | 5    | 3    | 6    | 7    | 7    | 12  | 16   | 21   | 17   | 17   |
|                     | DAYS OF RECORD: | 9    | 11   | 13   | 7    | 10   | 14   | 10   | 9   | 9    | 5    | 5    | 5    |

USGS: 11-1835. WALNUT CREEK AT WALNUT CREEK, CALIF.  
DWR: E-4-4300

LOCATION.--LAT 37 54 21, LONG 122 3 22, SEC. 0, T.0, R.0,  
IN ARROYO DE LAS NUECES Y BOLBONES GRANT, ON RIGHT BANK AT SOUTHERN  
PACIFIC RAILROAD BR AT TOWN OF WALNUT CREEK, 0.7 MI DOWNSTREAM FROM  
CONFLUENCE OF SAN RAMON AND LAS TRAMPAS CREEKS, CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--103 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--79.2 SQ. MI.  
RECORDS AVAILABLE.--165 PERIODIC OBSERVATIONS FROM DECEMBER 1952 THROUGH JULY 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--29.0 CFS FOR 15 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, JUNE 2, 1964  
MINIMUM = 4 DEG. C, DEC. 15, 1957

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             | MAXIMUM:        | 21   | 17   | 11   | 14   | 14   | 18   | 19   | 21  | 26   | 25   | 26   | 26   |
|                     | MEAN:           | 17   | 12   | 8    | 9    | 11   | 13   | 15   | 17  | 19   | 22   | 22   | 21   |
|                     | MINIMUM:        | 11   | 8    | 4    | 5    | 4    | 7    | 6    | 12  | 15   | 17   | 14   | 17   |
|                     | DAYS OF RECORD: | 13   | 13   | 15   | 18   | 22   | 18   | 15   | 13  | 13   | 7    | 7    | 11   |

USGS: 11-1836.5 WALNUT CREEK AT PLEASANT HILL, CALIF.  
DWR:

LOCATION.--LAT 37 57 19, LONG 122 3 14, NE 1/4 SEC. 11, T.1 N, R.2 W,  
0.5 MILE DOWNSTREAM FROM STATE HIGHWAY 24 BRIDGE, AND 1 MILE NORTHEAST  
OF PLEASANT HILL, CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--  
DRAINAGE AREA.--  
RECORDS AVAILABLE.-- 6 PERIODIC OBSERVATIONS FROM NOVEMBER 1959 THROUGH JUNE 1962.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 23 DEG. C, JUNE 1, 1962  
MINIMUM = 10 DEG. C, JAN. 8, 1960, MAR. 4, 1960, NOV. 6, 1959

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-62             | MAXIMUM:        | **   | 10   | **   | 10   | **   | 10   | **   | 23  | 23   | 22   | **   | **   |
|                     | MEAN:           | **   | 10   | **   | 10   | **   | 10   | **   | 23  | 23   | 22   | **   | **   |
|                     | MINIMUM:        | **   | 10   | **   | 10   | **   | 10   | **   | 23  | 23   | 22   | **   | **   |
|                     | DAYS OF RECORD: | 0    | 1    | 0    | 1    | 0    | 1    | 0    | 1   | 1    | 1    | 0    | 0    |

PACHECO CREEK BASIN

USGS: 11-1840. GALINDO CREEK AT CONCORD, CALIF.  
DWR: E-4-4250

LOCATION.--LAT 37 58 0, LONG 122 1 30, SEC. 0, T.0 , R.0 ,  
IN MONTE DEL DIABLO GRANT, ON RIGHT BANK JUST OFF COWELL ROAD, 0.2 MILE  
SOUTHEAST OF CONCORD AND 1.2 MILES UPSTREAM FROM MOUTH,  
CONTRA COSTA COUNTY.

ALTITUDE OF GAGE.--80 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--6.17 SQ. MI.

RECORDS AVAILABLE.--18 PERIODIC OBSERVATIONS FROM JUNE 1955 THROUGH MAY 1958.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 24 DEG. C, JUNE 27, 1957  
MINIMUM = 4 DEG. C, DEC. 18, 1956

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1955-58             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 9    | 14   | 4    | 6    | 13   | 15   | **   | 21  | 24   | **   | 22   | 11   |
|                     | MEAN:           | 9    | 12   | 4    | 6    | 13   | 13   | **   | 20  | 22   | **   | 20   | 11   |
|                     | MINIMUM:        | 9    | 8    | 4    | 6    | 13   | 10   | **   | 19  | 19   | **   | 18   | 11   |
|                     | DAYS OF RECORD: | 1    | 2    | 1    | 1    | 1    | 4    | 0    | 2   | 3    | 0    | 2    | 1    |

USGS: 11-1845. PINE CREEK AT CONCORD, CALIF.  
DWR: E-4-4200

LOCATION.--LAT 37 58 13, LONG 122 2 42, SEC. 0, T.0 , R.0 ,  
IN MONTE DEL DIABLO GRANT, ON RIGHT BANK AT CONCORD, JUST UPSTREAM FROM  
MARKET STREET BRIDGE, 0.2 MILE DOWNSTREAM FROM SMALL TRIBUTARY AND 0.8  
MILE UPSTREAM FROM MOUTH, CONTRA COSTA COUNTY.

ALTITUDE OF GAGE.--30 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--26.6 SQ. MI.

RECORDS AVAILABLE.--30 PERIODIC OBSERVATIONS FROM JANUARY 1953 THROUGH OCTOBER 1960.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--3.81 CFS FOR 8 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 28 DEG. C, AUG. 11, 1955, APR. 27, 1957  
MINIMUM = 7 DEG. C, FEB. 2, 1960, MAR. 22, 1960, DEC. 2, 1959

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-61             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 19   | **   | 9    | 13   | 12   | 16   | 28   | 19  | 27   | 22   | 28   | 23   |
|                     | MEAN:           | 12   | **   | 8    | 13   | 9    | 12   | 19   | 18  | 23   | 18   | 28   | 21   |
|                     | MINIMUM:        | 8    | **   | 7    | 13   | 7    | 7    | 9    | 16  | 19   | 14   | 28   | 17   |
|                     | DAYS OF RECORD: | 3    | 0    | 2    | 1    | 4    | 5    | 3    | 3   | 3    | 2    | 1    | 3    |

USGS: 11-1850. GRAYSON CREEK NEAR HOOKSTON, CALIF.  
DWR: E-4-4100

LOCATION.--LAT 37 57 5, LONG 122 5 5, SEC. 0, T.0 , R.0 ,  
IN LAS JUNTAS GRANT, ON RIGHT BANK 0.3 MILE UPSTREAM FROM UNNAMED  
TRIBUTARY AND 1.9 MILES NORTHWEST OF HOOKSTON, CONTRA COSTA COUNTY.

ALTITUDE OF GAGE.--80 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--1.94 SQ. MI.

RECORDS AVAILABLE.--11 PERIODIC OBSERVATIONS FROM MARCH 1956 THROUGH OCTOBER 1959.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--0.500 CFS FOR 6 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 22 DEG. C, MAY 28, 1957  
MINIMUM = 7 DEG. C, OCT. 19, 1959

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1956-60             |                 |      |      |      |      |      |      |      |     |      |      |      |      |
|                     | MAXIMUM:        | 7    | **   | **   | **   | 11   | 18   | 19   | 22  | **   | **   | **   | **   |
|                     | MEAN:           | 7    | **   | **   | **   | 11   | 13   | 17   | 19  | **   | **   | **   | **   |
|                     | MINIMUM:        | 7    | **   | **   | **   | 11   | 9    | 13   | 15  | **   | **   | **   | **   |
|                     | DAYS OF RECORD: | 1    | 0    | 0    | 0    | 1    | 5    | 2    | 2   | 0    | 0    | 0    | 0    |

PACHECO CREEK BASIN

USGS: 11-1851. GRAYSON CREEK NEAR PACHECO, CALIF.  
DWR: E-4-4150

LOCATION.--LAT 37 57 25, LONG 122 4 20, SEC. 0, T.0 , R.0 ,  
IN LAS JUNTAS GRANT, ON DOWNSTREAM SIDE OF BRIDGE, 0.6 MILE DOWNSTREAM  
FROM UNNAMED TRIBUTARY AND 1.8 MILES SOUTH OF PACHECO,  
CONTRA COSTA COUNTY.  
ALTITUDE OF GAGE.--40 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--4.36 SQ. MI.  
RECORDS AVAILABLE.--15 PERIODIC OBSERVATIONS FROM MARCH 1956 THROUGH MAY 1958.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 27 DEG. C, SEP. 9, 1957  
MINIMUM = 8 DEG. C, MAR. 5, 1956

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1956-58             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 9    | **   | 12   | **   | 16   | 17   | 19   | 18  | **   | **   | 23   | 27   |
| MEAN:               | 9    | **   | 12   | **   | 14   | 12   | 14   | 18  | **   | **   | 23   | 27   |
| MINIMUM:            | 9    | **   | 12   | **   | 13   | 8    | 9    | 17  | **   | **   | 23   | 27   |
| DAYS OF RECORD:     | 1    | 0    | 1    | 0    | 2    | 4    | 3    | 2   | 0    | 0    | 1    | 1    |

NAPA RIVER BASIN

USGS: 11-4559.5 SULPHUR CREEK NEAR ST. HELENA, CALIF.  
DWR: E-3-1520

LOCATION.--LAT 38 29 20, LONG 122 28 50, NE 1/4 SEC. 2, T.7 N, R.6 W,  
ON RIGHT BANK JUST DOWNSTREAM FROM PRIVATE ROAD BRIDGE, 1,000 FT  
UPSTREAM FROM HEATH CANYON AND 1.3 MILES SOUTHWEST OF ST. HELENA,  
NAPA COUNTY.  
ALTITUDE OF GAGE.--303 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--4.50 SQ. MI.  
RECORDS AVAILABLE.--15 PERIODIC OBSERVATIONS FROM JANUARY 1966 THROUGH AUGUST 1967.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JULY 10, 1967  
MINIMUM = 7 DEG. C, JAN. 4, 1966

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966-67             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | **   | **   | 12   | 12   | 9    | 8    | 12   | 14  | 22   | 24   | 22   | **   |
| MEAN:               | **   | **   | 12   | 9    | 9    | 8    | 12   | 14  | 22   | 23   | 22   | **   |
| MINIMUM:            | **   | **   | 12   | 7    | 9    | 8    | 12   | 13  | 22   | 22   | 22   | **   |
| DAYS OF RECORD:     | 0    | 0    | 1    | 4    | 1    | 2    | 1    | 2   | 1    | 2    | 1    | 0    |

USGS: 11-4560. NAPA RIVER NEAR ST. HELENA, CALIF.  
DWR: E-3-1500

LOCATION.--LAT 38 29 40, LONG 122 25 50, SE 1/4 SEC. 32, T.8 N, R.5 W,  
ON RIGHT BANK 0.2 MILE UPSTREAM FROM HIGHWAY BRIDGE, 1.3 MILES  
NORTHEAST OF ZINFANDEL, AND 2.5 MILES EAST OF ST. HELENA, NAPA COUNTY.  
ALTITUDE OF GAGE.--173 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--81.4 SQ. MI.  
RECORDS AVAILABLE.--377 PERIODIC OBSERVATIONS FROM DECEMBER 1951 THROUGH AUGUST 1968.  
CONTINUOUS RECORD FROM OCTOBER 1957 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--90.1 CFS FOR 31 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 33 DEG. C, JULY 18, 1968  
MINIMUM = 3 DEG. C, DEC. 14, 1967, DEC. 15, 1967  
PERIODIC DATA:  
MAXIMUM = 28 DEG. C, JULY 15, 1959, JULY 10, 1963  
MINIMUM = 4 DEG. C, DEC. 15, 1967

WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR     | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1958     |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM: | 17   | 14   | 12   | 12   | 15   | 14   | 20   | 21  | 24   | 22   | 24   | 22   |
| MEAN:    | 16   | 12   | 10   | 10   | 12   | 11   | 14   | 17  | 19   | 21   | 18   | 17   |
| MINIMUM: | 14   | 8    | 7    | 7    | 9    | 7    | 10   | 14  | 14   | 18   | 13   | 13   |
| 1959     |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM: | 17   | 14   | 11   | 14   | 16   | 18   | 22   | 22  | 26   | 25   | **   | 22   |
| MEAN:    | 12   | 9    | 9    | 12   | 12   | 16   | 20   | 19  | 21   | 18   | **   | 17   |
| MINIMUM: | 4    | 7    | 7    | 9    | 8    | 11   | 17   | 14  | 13   | 16   | **   | 12   |

## NAPA RIVER BASIN

USGS: 11-4560.--Continued

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960      | MAXIMUM:        | 21   | 14   | 11   | 12   | 13   | 18   | 20   | 23  | 26   | 28   | 25   | 21   |
|           | MEAN:           | 20   | 13   | 9    | 9    | 11   | 12   | 13   | 17  | 22   | 23   | 20   | 16   |
|           | MINIMUM:        | 18   | 11   | 4    | 6    | 7    | 7    | 9    | 10  | 18   | 18   | 17   | 11   |
| 1961      | MAXIMUM:        | 23   | 14   | 13   | 13   | 16   | 19   | 23   | 22  | 29   | 26   | 23   | 21   |
|           | MEAN:           | 16   | 11   | 9    | 8    | 12   | 13   | 16   | 18  | 23   | 22   | 21   | 16   |
|           | MINIMUM:        | 12   | 7    | 4    | 4    | 9    | 9    | 8    | 13  | 17   | 18   | 18   | 12   |
| 1958-1961 | MAXIMUM:        | 23   | 14   | 13   | 14   | 16   | 19   | 23   | 23  | 29   | 28   | 25   | 22   |
|           | MEAN:           | 16   | 11   | 9    | 10   | 12   | 13   | 16   | 18  | 21   | 21   | 20   | 17   |
|           | MINIMUM:        | 4    | 7    | 4    | 4    | 7    | 7    | 8    | 10  | 13   | 16   | 13   | 11   |
|           | DAYS OF RECORD: | 27   | 40   | 51   | 102  | 103  | 111  | 95   | 62  | 50   | 42   | 24   | 27   |

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962      | MAXIMUM:        | 15   | 12   | 12   | 11   | 12   | 18   | 22   | 24  | 26   | 25   | 24   | 22   |
|           | MEAN:           | 13   | 11   | 9    | 9    | 11   | 12   | 18   | 19  | 21   | 23   | 22   | 19   |
|           | MINIMUM:        | 10   | 8    | 8    | 5    | 8    | 9    | 14   | 14  | 16   | 19   | 21   | 17   |
| 1963      | MAXIMUM:        | 18   | 17   | 14   | 13   | 17   | 18   | 21   | 24  | 28   | 24   | 24   | 23   |
|           | MEAN:           | 16   | 14   | 12   | 10   | 14   | 15   | 16   | 19  | 22   | 19   | 22   | 19   |
|           | MINIMUM:        | 14   | 11   | 8    | 8    | 13   | 11   | 13   | 14  | 18   | 17   | 19   | 15   |
| 1964      | MAXIMUM:        | **   | **   | **   | **   | 13   | 16   | 18   | **  | **   | 25   | 22   | 19   |
|           | MEAN:           | **   | **   | **   | **   | 11   | 13   | 16   | **  | **   | 21   | 19   | 15   |
|           | MINIMUM:        | **   | **   | **   | **   | 10   | 11   | 13   | **  | **   | 17   | 17   | 12   |
| 1965      | MAXIMUM:        | 16   | **   | **   | **   | 14   | 18   | 22   | 23  | 22   | 24   | 24   | 22   |
|           | MEAN:           | 13   | **   | **   | **   | 13   | 14   | 16   | 19  | 19   | 21   | 22   | 18   |
|           | MINIMUM:        | 12   | **   | **   | **   | 11   | 12   | 11   | 14  | 17   | 18   | 19   | 14   |
| 1966      | MAXIMUM:        | 17   | 14   | 9    | 12   | 13   | 19   | 22   | 24  | 24   | 25   | **   | **   |
|           | MEAN:           | 15   | 12   | 7    | 10   | 10   | 13   | 18   | 20  | 23   | 22   | **   | **   |
|           | MINIMUM:        | 13   | 9    | 5    | 6    | 8    | 8    | 14   | 16  | 22   | 19   | **   | **   |
| 1967      | MAXIMUM:        | 18   | 13   | 12   | 14   | 14   | 16   | 15   | 23  | 27   | 27   | 23   | 22   |
|           | MEAN:           | 14   | 12   | 11   | 12   | 13   | 13   | 12   | 17  | 20   | 23   | 21   | 19   |
|           | MINIMUM:        | 11   | 8    | 8    | 9    | 11   | 9    | 9    | 11  | 14   | 20   | 17   | 16   |
| 1968      | MAXIMUM:        | 17   | 16   | 10   | 10   | 15   | 18   | 22   | 25  | 28   | 33   | 27   | 20   |
|           | MEAN:           | 15   | 13   | 7    | 8    | 12   | 13   | 16   | 19  | 22   | 22   | 19   | 17   |
|           | MINIMUM:        | 13   | 8    | 3    | 4    | 7    | 9    | 12   | 14  | 17   | 16   | 15   | 12   |
| 1962-1968 | MAXIMUM:        | 18   | 17   | 14   | 14   | 17   | 19   | 22   | 25  | 28   | 33   | 27   | 23   |
|           | MEAN:           | 14   | 12   | 9    | 10   | 12   | 13   | 16   | 19  | 21   | 22   | 21   | 18   |
|           | MINIMUM:        | 10   | 8    | 3    | 4    | 7    | 8    | 9    | 11  | 14   | 16   | 15   | 12   |
|           | DAYS OF RECORD: | 166  | 150  | 155  | 153  | 145  | 217  | 195  | 186 | 151  | 206  | 180  | 177  |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1952-68          | MAXIMUM:        | 18   | 20   | 14   | 13   | 15   | 18   | 23   | 24  | 24   | 28   | 25   | 23   |
|                  | MEAN:           | 16   | 13   | 10   | 9    | 12   | 12   | 16   | 17  | 21   | 23   | 20   | 19   |
|                  | MINIMUM:        | 12   | 9    | 4    | 4    | 6    | 8    | 10   | 12  | 16   | 18   | 13   | 15   |
|                  | DAYS OF RECORD: | 31   | 24   | 31   | 44   | 44   | 37   | 33   | 35  | 26   | 29   | 23   | 20   |



# NAPA RIVER BASIN

USGS: 11-4565. CONN CREEK NEAR ST. HELENA, CALIF.  
DWR: E-3-1450

LOCATION.--LAT 38 28 55, LONG 122 22 25, SW1/4SW1/4 SEC.1, T.7 N, R.5 W,  
IN OUTLET POOL AT TOE OF CONN DAM, 1.8 MILES UPSTREAM FROM BRIDGE ON  
STATE HIGHWAY 28, 5.4 MILES EAST OF ST. HELENA, AND 8 MILES UPSTREAM  
FROM MOUTH, NAPA COUNTY.  
ALTITUDE OF GAGE.--230 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--53.2 SQ. MI.  
RECORDS AVAILABLE.--40 PERIODIC OBSERVATIONS FROM MARCH 1950 THROUGH JUNE 1959.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--33.9 CFS FOR 16 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN DECEMBER 1945.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, AUG. 11, 1952  
MINIMUM = 5 DEG. C, MAR. 5, 1958

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-59             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 20   | **   | **   | 12   | 9    | 14   | 17   | 20  | 21   | 20   | 26   | 23   |
| MEAN:               | 18   | **   | **   | 9    | 9    | 11   | 16   | 18  | 19   | 19   | 22   | 23   |
| MINIMUM:            | 16   | **   | **   | 8    | 9    | 5    | 12   | 17  | 17   | 18   | 20   | 23   |
| DAYS OF RECORD:     | 4    | 0    | 0    | 6    | 1    | 5    | 7    | 3   | 7    | 3    | 3    | 1    |

USGS: 11-4570. DRY CREEK NEAR NAPA, CALIF.  
DWR: E-3-1330

LOCATION.--LAT 38 21 23, LONG 122 21 50, SW1/4 SEC. 9, T.6 N, R.4 W,  
IN NAPA GRANT, ON RIGHT BANK 3.7 MILES UPSTREAM FROM MOUTH AND 5.5  
MILES NORTHWEST OF NAPA, NAPA COUNTY.  
ALTITUDE OF GAGE.--190 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--17.4 SQ. MI.  
RECORDS AVAILABLE.--99 PERIODIC OBSERVATIONS FROM MARCH 1951 THROUGH AUGUST 1966.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--19.6 CFS FOR 15 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JULY 6, 1954  
MINIMUM = 3 DEG. C, JAN. 10, 1957

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-66             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 17   | 12   | 14   | 12   | 15   | 14   | 16   | 21  | 19   | 24   | 20   | 17   |
| MEAN:               | 13   | 10   | 9    | 9    | 9    | 10   | 13   | 14  | 16   | 16   | 18   | 17   |
| MINIMUM:            | 12   | 8    | 6    | 3    | 5    | 6    | 11   | 9   | 13   | 12   | 12   | 17   |
| DAYS OF RECORD:     | 7    | 6    | 9    | 14   | 6    | 14   | 11   | 8   | 10   | 8    | 5    | 1    |

USGS: 11-4580. NAPA RIVER NEAR NAPA, CALIF.  
DWR: E-3-1250

LOCATION.--LAT 38 22 6, LONG 122 18 8, SE1/4NE1/4 SEC.16, T.6 N, R.4 W,  
IN YAJOME GRANT, ON LEFT BANK AT DOWNSTREAM SIDE OF OAK KNOLL AVENUE  
BRIDGE, 0.4 MILE DOWNSTREAM FROM DRY CREEK AND 5 MILES NORTH OF NAPA,  
NAPA COUNTY.  
ALTITUDE OF GAGE.--25 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--218 SQ. MI.  
RECORDS AVAILABLE.--68 PERIODIC OBSERVATIONS FROM DECEMBER 1959 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--150 CFS FOR 11 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN DECEMBER 1945.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 26 DEG. C, AUG. 5, 1963  
MINIMUM = 2 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 21   | 19   | 16   | 11   | 13   | 15   | 18   | 22  | 25   | 24   | 26   | 22   |
| MEAN:               | 18   | 13   | 10   | 9    | 11   | 12   | 15   | 18  | 20   | 24   | 23   | 21   |
| MINIMUM:            | 14   | 9    | 2    | 7    | 9    | 9    | 13   | 12  | 18   | 23   | 20   | 20   |
| DAYS OF RECORD:     | 3    | 7    | 7    | 8    | 5    | 9    | 3    | 4   | 7    | 6    | 6    | 3    |

## NAPA RIVER BASIN

USGS: 11-4582. REDWOOD CREEK NEAR NAPA, CALIF.  
DWR: E-3-1200

LOCATION.--LAT 38 19 5, LONG 122 20 35, SE1/4 SEC. 31, T.6 N, R.4 W,  
IN NAPA GRANT, ON RIGHT BANK 2.9 MILES UPSTREAM FROM CONFLUENCE WITH  
BROWNS VALLEY CREEK AND 3.4 MILES NORTHWEST OF NAPA, NAPA COUNTY.  
ALTITUDE OF GAGE.--166 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--9.81 SQ. MI.  
RECORDS AVAILABLE.--71 PERIODIC OBSERVATIONS FROM AUGUST 1958 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--9.19 CFS FOR 9 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, AUG. 26, 1966  
MINIMUM = 3 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1958-68             | MAXIMUM:        | 19   | 15   | 16   | 13   | 13   | 13   | 16   | 17  | 16   | 22   | 24   | 17   |
|                     | MEAN:           | 17   | 13   | 11   | 9    | 10   | 10   | 13   | 14  | 14   | 19   | 20   | 17   |
|                     | MINIMUM:        | 14   | 10   | 3    | 6    | 7    | 8    | 12   | 12  | 12   | 17   | 18   | 17   |
|                     | DAYS OF RECORD: | 2    | 5    | 11   | 10   | 8    | 9    | 5    | 5   | 7    | 3    | 5    | 1    |

USGS: 11-4583.5 NAPA RIVER AT DUTTON LANDING NEAR VALLEJO, CALIF.  
DWR: E-3-1005

LOCATION.--LAT 38 12 35, LONG 122 18 18, NE1/4 SEC. 9, T.4 N, R.4 W,  
ON LEFT BANK AT DUTTON LANDING, JUST UPSTREAM FROM RAILROAD BRIDGE,  
1,100 FT DOWNSTREAM FROM FAGAN SLOUGH, AND 8.0 MILES NORTHWEST OF  
VALLEJO, NAPA COUNTY.  
ALTITUDE OF GAGE.--  
DRAINAGE AREA.--  
RECORDS AVAILABLE.-- 7 PERIODIC OBSERVATIONS FROM JUNE 1966 THROUGH MAY 1967.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
RECORDS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, MAY 24, 1967  
MINIMUM = 9 DEG. C, JAN. 27, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966-67             | MAXIMUM:        | **   | 15   | **   | 9    | **   | 13   | **   | 22  | 17   | 18   | **   | 21   |
|                     | MEAN:           | **   | 15   | **   | 9    | **   | 13   | **   | 22  | 17   | 18   | **   | 21   |
|                     | MINIMUM:        | **   | 15   | **   | 9    | **   | 13   | **   | 22  | 17   | 18   | **   | 21   |
|                     | DAYS OF RECORD: | 0    | 1    | 0    | 1    | 0    | 1    | 0    | 1   | 1    | 1    | 0    | 1    |

## SONOMA CREEK BASIN

USGS: 11-4585. SONOMA CREEK AT AGUA CALIENTE, CALIF.  
DWR: E-2-6200 SONOMA CREEK AT BOYES HOT SPRINGS.

LOCATION.--LAT 38 19 24, LONG 122 29 36, NE1/4 SEC. 2, T.5 N, R.6 W,  
IN AGUA CALIENTE GRANT ON LEFT BANK 150 FT UPSTREAM FROM BRIDGE AND  
0.4 MILE WEST OF AGUA CALIENTE, SONOMA COUNTY.  
ALTITUDE OF GAGE.--120 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--58.3 SQ. MI.  
RECORDS AVAILABLE.--274 PERIODIC OBSERVATIONS FROM FEBRUARY 1955 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--71.1 CFS FOR 12 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
PRIOR TO JULY 25, 1967, AT SITE 0.8 MILE DOWNSTREAM.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 28 DEG. C, JULY 29, 1964  
MINIMUM = 4 DEG. C, JAN. 10, 1957, JAN. 14, 1963

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1955-68             | MAXIMUM:        | 27   | 16   | 13   | 14   | 14   | 17   | 20   | 19  | 25   | 28   | 27   | 26   |
|                     | MEAN:           | 18   | 12   | 9    | 9    | 11   | 12   | 13   | 16  | 21   | 22   | 23   | 21   |
|                     | MINIMUM:        | 13   | 9    | 4    | 4    | 6    | 6    | 9    | 11  | 15   | 13   | 21   | 17   |
|                     | DAYS OF RECORD: | 10   | 11   | 22   | 36   | 62   | 57   | 30   | 9   | 15   | 11   | 5    | 6    |

# PETALUMA RIVER BASIN

USGS: 11-4590. PETALUMA RIVER AT PETALUMA, CALIF.  
DWR: E-2-5200

**LOCATION.**--LAT 38 15 40, LONG 122 39 35, NE1/4SW1/4 SEC.20, T.5 N, R.7 W,  
IN ROBLAR DE LA MISERIA GRANT, ON RIGHT BANK 70 FT DOWNSTREAM FROM  
COUNTY HIGHWAY BRIDGE IN PETALUMA AND 1.3 MILES DOWNSTREAM FROM  
LICHAU CREEK, SONOMA COUNTY.  
**ALTITUDE OF GAGE.**--20 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA.**--30.9 SQ. MI.  
**RECORDS AVAILABLE.**--47 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH DECEMBER 1961.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--17.0 CFS FOR 15 YEARS OF RECORD.  
**REMARKS.**--REGULATION OF FLOW NOT SIGNIFICANT.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 17 DEG. C, APR. 14, 1955  
MINIMUM = 4 DEG. C, JAN. 15, 1950

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-62             | MAXIMUM:        | 16   | **   | 11   | 12   | 12   | 16   | 17   | 16  | 14   | **   | **   | **   |
|                     | MEAN:           | 16   | **   | 9    | 8    | 9    | 12   | 14   | 14  | 14   | **   | **   | **   |
|                     | MINIMUM:        | 16   | **   | 7    | 4    | 6    | 9    | 12   | 14  | 14   | **   | **   | **   |
|                     | DAYS OF RECORD: | 1    | 0    | 8    | 10   | 10   | 9    | 5    | 3   | 1    | 0    | 0    | 0    |

# NOVATO CREEK BASIN

USGS: 11-4595. NOVATO CREEK AT NOVATO, CALIF.  
DWR: E-2-3200 NOVATO CREEK NEAR NOVATO.

**LOCATION.**--LAT 38 6 28, LONG 122 34 44, NW1/4 SEC. 13, T.3 N, R.7 W,  
IN NOVATO GRANT, ON LEFT BANK IN NOVATO 100 FT UPSTREAM FROM 7TH STREET  
BRIDGE, MARIN COUNTY.  
**ALTITUDE OF GAGE.**--30 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA.**--17.6 SQ. MI.  
**RECORDS AVAILABLE.**--88 PERIODIC OBSERVATIONS FROM DECEMBER 1952 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--11.3 CFS FOR 21 YEARS OF RECORD.  
**REMARKS.**--SIGNIFICANT REGULATION OF FLOW BEGAN DECEMBER 1951.  
PRIOR TO AUG. 23, 1967, AT SITE 0.6 MILE UPSTREAM. RECORDS FURNISHED  
BY MARIN COUNTY WATER DISTRICT.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, JULY 10, 1967  
MINIMUM = 6 DEG. C, JAN. 2, 1957

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-68             | MAXIMUM:        | 18   | 14   | 14   | 12   | 13   | 14   | 17   | 19  | 19   | 21   | 19   | 18   |
|                     | MEAN:           | 17   | 12   | 11   | 9    | 10   | 11   | 13   | 15  | 16   | 19   | 18   | 18   |
|                     | MINIMUM:        | 16   | 9    | 6    | 6    | 8    | 9    | 9    | 12  | 13   | 17   | 16   | 18   |
|                     | DAYS OF RECORD: | 2    | 6    | 11   | 12   | 9    | 9    | 11   | 8   | 10   | 4    | 4    | 2    |

# CORTE MADERA CREEK BASIN

USGS: 11-4600. CORTE MADERA CREEK AT ROSS, CALIF.  
DWR: E-2-1200

**LOCATION.**--LAT 37 57 45, LONG 122 33 20, NE1/4 SEC. 8, T.1 N, R.6 W,  
IN PUNTA DE QUENTIN GRANT, ON LEFT BANK BEHIND FIRE STATION AT ROSS,  
1.7 MILES SOUTHWEST OF SAN RAFAEL AND 4 MILES UPSTREAM FROM MOUTH,  
MARIN COUNTY.  
**ALTITUDE OF GAGE.**--11 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA.**--18.1 SQ. MI.  
**RECORDS AVAILABLE.**--124 PERIODIC OBSERVATIONS FROM NOVEMBER 1950 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--26.5 CFS FOR 16 YEARS OF RECORD.  
**REMARKS.**--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, AUG. 25, 1966  
MINIMUM = 3 DEG. C, DEC. 14, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-68             | MAXIMUM:        | 20   | 16   | 12   | 12   | 14   | 15   | 16   | 18  | 20   | 20   | 22   | 18   |
|                     | MEAN:           | 17   | 12   | 10   | 9    | 9    | 11   | 12   | 14  | 17   | 18   | 18   | 17   |
|                     | MINIMUM:        | 15   | 7    | 3    | 6    | 8    | 5    | 9    | 12  | 14   | 15   | 16   | 16   |
|                     | DAYS OF RECORD: | 9    | 12   | 11   | 10   | 9    | 10   | 12   | 10  | 11   | 11   | 9    | 10   |

## ARROYO CORTE MADERA DEL PRESIDIO BASIN

USGS: 11-4601. ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CALIF.  
DWR:

**LOCATION.**--LAT 37 53 50, LONG 122 32 6, NW1/4 SEC. 33, T.1 N, R.6 W,  
IN SAUSALITO GRANT, ON RIGHT BANK NEAR SOUTH BOUNDARY OF TOWN OF  
MILL VALLEY 1 MILE UPSTREAM FROM MOUTH, MARIN COUNTY.  
**ALTITUDE OF GAGE.**--2 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA.**--4.69 SQ. MI.  
**RECORDS AVAILABLE.**--34 PERIODIC OBSERVATIONS FROM OCTOBER 1965 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--  
**REMARKS.**--REGULATION OF FLOW NOT SIGNIFICANT.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, AUG. 25, 1966  
MINIMUM = 6 DEG. C, JAN. 22, 1967, JAN. 12, 1968, DEC. 13, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966-68             | MAXIMUM:        | 21   | 16   | 14   | 9    | 10   | 11   | 13   | 13  | 21   | 22   | 22   | 16   |
|                     | MEAN:           | 18   | 16   | 10   | 7    | 10   | 10   | 12   | 13  | 17   | 17   | 21   | 16   |
|                     | MINIMUM:        | 16   | 15   | 6    | 6    | 10   | 9    | 10   | 12  | 13   | 15   | 20   | 16   |
|                     | DAYS OF RECORD: | 3    | 2    | 5    | 4    | 1    | 3    | 3    | 3   | 3    | 3    | 2    | 2    |

## HORSES CREEK BASIN

USGS: 11-4601.6 HORSES CREEK AT BOLINAS, CALIF.  
DWR:

**LOCATION.**--LAT 37 55 9, LONG 122 40 9, SEC. 0, T.0, R.0,  
IN LAS BAULINES GRANT ON RIGHT BANK AT MOUTH, 7 FT UPSTREAM FROM  
CULVERT ON STATE HIGHWAY 1 AND 1.0 MILE NORTHEAST OF BOLINAS,  
MARIN COUNTY.  
**ALTITUDE OF GAGE.**--4 FT ABOVE MEAN SEA LEVEL.  
**DRAINAGE AREA.**--0.700 SQ. MI.  
**RECORDS AVAILABLE.**--11 PERIODIC OBSERVATIONS FROM MAY 1967 THROUGH MAY 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--  
**REMARKS.**--REGULATION OF FLOW NOT SIGNIFICANT.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, AUG. 10, 1967  
MINIMUM = 9 DEG. C, JAN. 30, 1968

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967-68             | MAXIMUM:        | **   | **   | **   | 9    | 12   | 13   | 16   | 17  | 13   | 14   | 21   | **   |
|                     | MEAN:           | **   | **   | **   | 9    | 12   | 13   | 16   | 16  | 13   | 14   | 21   | **   |
|                     | MINIMUM:        | **   | **   | **   | 9    | 12   | 13   | 16   | 15  | 13   | 14   | 21   | **   |
|                     | DAYS OF RECORD: | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 2   | 3    | 1    | 1    | 0    |

## AUDUBON CREEK BASIN

USGS: 11-4601.65 AUDUBON CREEK NEAR BOLINAS, CALIF.  
DWR:

**LOCATION.**--LAT 37 55 47, LONG 122 40 50, SEC. 0, T.0, R.0,  
IN LAS BAULINES GRANT, AT MOUTH 1.5 MILES NORTH OF BOLINAS,  
MARIN COUNTY.  
**ALTITUDE OF GAGE.**--  
**DRAINAGE AREA.**--0.460 SQ. MI.  
**RECORDS AVAILABLE.**--17 PERIODIC OBSERVATIONS FROM MAY 1967 THROUGH OCTOBER 1968.  
NO CONTINUOUS RECORDS.  
**AVERAGE DISCHARGE.**--  
**REMARKS.**--REGULATION OF FLOW NOT SIGNIFICANT.  
**EXTREMES.**--PERIODIC DATA:  
MAXIMUM = 22 DEG. C, AUG. 10, 1967  
MINIMUM = 3 DEG. C, DEC. 13, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967-69             | MAXIMUM:        | 19   | 17   | 3    | 9    | **   | 14   | 14   | 17  | 13   | 15   | 22   | 19   |
|                     | MEAN:           | 18   | 17   | 3    | 9    | **   | 14   | 14   | 16  | 12   | 14   | 22   | 17   |
|                     | MINIMUM:        | 18   | 17   | 3    | 9    | **   | 14   | 14   | 14  | 11   | 14   | 22   | 16   |
|                     | DAYS OF RECORD: | 2    | 1    | 1    | 2    | 0    | 1    | 1    | 2   | 2    | 2    | 1    | 2    |

PINE CREEK BASIN

USGS: 11-4601.7 PINE CREEK AT BOLINAS, CALIF.  
DWR:

LOCATION.--LAT 37 55 7, LONG 122 41 31, SEC. 0, T.0 , R.0 ,  
IN LAS BAULINES GRANT, ON RIGHT BANK 100 FT UPSTREAM FROM HIGHWAY  
BRIDGE, 0.4 MILE UPSTREAM FROM MOUTH, AND 0.9 MILE NORTH OF BOLINAS,  
MARIN COUNTY.  
ALTITUDE OF GAGE.--6 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--7.83 SQ. MI.  
RECORDS AVAILABLE.--14 PERIODIC OBSERVATIONS FROM SEPTEMBER 1967 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1966 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 18 DEG. C, MAY 18, 1967, JULY 27, 1967, JULY 31, 1967  
MINIMUM = 4 DEG. C, DEC. 14, 1968  
PERIODIC DATA:  
MAXIMUM = 16 DEG. C, SEP. 3, 1968  
MINIMUM = 6 DEG. C, DEC. 13, 1967

WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | 18  | 16   | 18   | 17   | 17   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | 14  | 13   | 16   | 16   | 16   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | 12  | 12   | 14   | 14   | 15   |
| 1968      | MAXIMUM:        | 16   | 15   | 11   | 10   | 15   | 14   | 14   | 17  | 16   | 17   | 16   | 17   |
|           | MEAN:           | 15   | 12   | 7    | 8    | 11   | 12   | 13   | 14  | 15   | 15   | 15   | 15   |
|           | MINIMUM:        | 14   | 9    | 4    | 6    | 8    | 11   | 11   | 12  | 13   | 14   | 14   | 13   |
| 1967-1968 | MAXIMUM:        | 16   | 15   | 11   | 10   | 15   | 14   | 14   | 18  | 16   | 18   | 17   | 17   |
|           | MEAN:           | 15   | 12   | 7    | 8    | 11   | 12   | 13   | 14  | 14   | 16   | 16   | 16   |
|           | MINIMUM:        | 14   | 9    | 4    | 6    | 8    | 11   | 11   | 12  | 12   | 14   | 14   | 13   |
|           | DAYS OF RECORD: | 9    | 21   | 31   | 31   | 29   | 31   | 11   | 14  | 20   | 20   | 15   | 18   |

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967-68          | MAXIMUM:        | 14   | 14   | 6    | 9    | 12   | 13   | 13   | 15  | 15   | 14   | **   | 16   |
|                  | MEAN:           | 14   | 14   | 6    | 8    | 12   | 13   | 13   | 15  | 15   | 14   | **   | 16   |
|                  | MINIMUM:        | 14   | 14   | 6    | 7    | 12   | 13   | 13   | 15  | 15   | 14   | **   | 15   |
|                  | DAYS OF RECORD: | 1    | 1    | 1    | 2    | 2    | 1    | 1    | 1   | 1    | 1    | 0    | 2    |

LAGUNITAS CREEK BASIN

USGS: 11-4605. ARROYO NICASIO NEAR POINT REYES STATION, CALIF.  
DWR: E-2-2200

LOCATION.--LAT 38 4 20, LONG 122 45 30, SEC. 32, T.3 N, R.8 W,  
IN NICASIO (BUCKLEW) GRANT, ON LEFT BANK 0.9 MILE UPSTREAM FROM MOUTH  
AND 2.7 MILES EAST OF POINT REYES STATION, MARIN COUNTY.  
ALTITUDE OF GAGE.--60 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--36.2 SQ. MI.  
RECORDS AVAILABLE.--35 PERIODIC OBSERVATIONS FROM AUGUST 1953 THROUGH JUNE 1960.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--40.6 CFS FOR 7 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JUNE 17, 1960  
MINIMUM = 6 DEG. C, JAN. 10, 1955, JAN. 2, 1957

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953-60          | MAXIMUM:        | 17   | 11   | 12   | 10   | 12   | 13   | 14   | 15  | 24   | 16   | 15   | **   |
|                  | MEAN:           | 17   | 11   | 11   | 7    | 9    | 11   | 14   | 13  | 19   | 16   | 14   | **   |
|                  | MINIMUM:        | 17   | 11   | 9    | 6    | 8    | 8    | 13   | 10  | 14   | 14   | 14   | **   |
|                  | DAYS OF RECORD: | 1    | 2    | 3    | 3    | 4    | 6    | 3    | 2   | 6    | 2    | 3    | 0    |

## WALKER CREEK BASIN

USGS: 11-4607. ARROYO SAUSAL NEAR MARSHALL, CALIF.  
DWR: F-9-9020

LOCATION.--LAT 38 9 30, LONG 122 46 55, SW1/4 SEC. 30, T.4 N, R.8 W,  
IN SOULAJULE (BRACKETT) GRANT, ON LEFT BANK 0.3 MILE UPSTREAM FROM  
CONFLUENCE WITH SALMON CREEK AND 6.1 MILES EAST OF MARSHALL,  
MARIN COUNTY.

ALTITUDE OF GAGE.--220 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--19.2 SQ. MI.

RECORDS AVAILABLE.--7 PERIODIC OBSERVATIONS FROM MARCH 1959 THROUGH JUNE 1960.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 31 DEG. C, JUNE 15, 1960  
MINIMUM = 6 DEG. C, FEB. 8, 1960

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-60             | MAXIMUM:        | **   | **   | **   | **   | 12   | 18   | **   | **  | 31   | **   | **   | **   |
|                     | MEAN:           | **   | **   | **   | **   | 9    | 18   | **   | **  | 31   | **   | **   | **   |
|                     | MINIMUM:        | **   | **   | **   | **   | 6    | 17   | **   | **  | 31   | **   | **   | **   |
|                     | DAYS OF RECORD: | 0    | 0    | 0    | 0    | 4    | 2    | 0    | 0   | 1    | 0    | 0    | 0    |

USGS: 11-4608. WALKER CREEK NEAR TOMALES, CALIF.  
DWR: F-9-9010

LOCATION.--LAT 38 12 35, LONG 122 51 35, NW1/4 SEC. 9, T.4 N, R.9 W,  
IN NICASIO GRANT, ON LEFT BANK 1,300 FT UPSTREAM FROM CHILENO CREEK  
AND 3.5 MILES SOUTHEAST OF TOMALES, MARIN COUNTY.

ALTITUDE OF GAGE.--57 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--37.1 SQ. MI.

RECORDS AVAILABLE.--65 PERIODIC OBSERVATIONS FROM JUNE 1959 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--37.0 CFS FOR 8 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 23 DEG. C, JUNE 15, 1960  
MINIMUM = 2 DEG. C, JAN. 15, 1963

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-68             | MAXIMUM:        | 17   | 15   | 14   | 11   | 14   | 14   | 17   | 20  | 23   | 17   | 23   | 18   |
|                     | MEAN:           | 16   | 13   | 9    | 8    | 10   | 12   | 13   | 16  | 17   | 16   | 19   | 17   |
|                     | MINIMUM:        | 14   | 12   | 4    | 2    | 6    | 8    | 9    | 13  | 14   | 14   | 16   | 16   |
|                     | DAYS OF RECORD: | 2    | 5    | 11   | 7    | 6    | 8    | 7    | 4   | 7    | 3    | 2    | 3    |

## SALMON CREEK BASIN

USGS: 11-4609.2 SALMON CREEK AT BODEGA, CALIF.  
DWR: F-9-9150

LOCATION.--LAT 38 20 54, LONG 122 58 45, SE1/4 SEC. 17, T.6 N, R.10 W,  
IN ESTERO AMERICANO GRANT, ON LEFT BANK 100 FT UPSTREAM FROM PRIVATE  
ROAD BRIDGE, 0.3 MILE UPSTREAM FROM UNNAMED TRIBUTARY, AND 0.4 MILE  
NORTHWEST OF BODEGA, SONOMA COUNTY.

ALTITUDE OF GAGE.--81 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--15.7 SQ. MI.

RECORDS AVAILABLE.--59 PERIODIC OBSERVATIONS FROM OCTOBER 1962 THROUGH SEPTEMBER 1968.

CONTINUOUS RECORD FROM OCTOBER 1963 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--19.7 CFS FOR 5 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 23 DEG. C, APR. 26, 1965  
MINIMUM = 0 DEG. C, DEC. 15, 1965, DEC. 16, 1965, DEC. 17, 1965, DEC. 18, 1965, DEC. 19, 1965  
DEC. 20, 1965, DEC. 21, 1965, DEC. 22, 1965, DEC. 23, 1965, DEC. 14, 1967  
DEC. 15, 1967, DEC. 16, 1967, DEC. 17, 1967, DEC. 19, 1967, DEC. 20, 1967  
DEC. 21, 1967, JAN. 3, 1968, JAN. 4, 1968, JAN. 5, 1968

PERIODIC DATA:

MAXIMUM = 21 DEG. C, JULY 11, 1967  
MINIMUM = 2 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR |          | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964 | MAXIMUM: | 17   | 17   | 11   | 12   | 16   | 18   | 18   | 18  | 17   | **   | **   | **   |
|      | MEAN:    | 13   | 11   | 6    | 6    | 9    | 11   | 12   | 13  | 14   | **   | **   | **   |
|      | MINIMUM: | 7    | 5    | 1    | 1    | 4    | 5    | 7    | 7   | 11   | **   | **   | **   |
| 1965 | MAXIMUM: | 18   | 17   | 15   | 12   | 12   | 17   | 23   | 21  | 19   | 19   | 18   | **   |
|      | MEAN:    | 15   | 10   | 9    | 9    | 8    | 11   | 12   | 16  | 16   | 17   | 15   | **   |
|      | MINIMUM: | 13   | 2    | 3    | 3    | 4    | 7    | 4    | 9   | 12   | 12   | 12   | **   |

## SALMON CREEK BASIN

USGS: 11-4609.2.--Continued

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR             |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966             | MAXIMUM:        | **   | 16   | 9    | 13   | 17   | 18   | 21   | 22  | 22   | 17   | **   | **   |
|                  | MEAN:           | **   | 10   | 4    | 8    | 11   | 10   | 14   | 16  | 16   | 14   | **   | **   |
|                  | MINIMUM:        | **   | 3    | 0    | 1    | 5    | 2    | 8    | 11  | 11   | 11   | **   | **   |
| 1967             | MAXIMUM:        | **   | 14   | 12   | 12   | 13   | 14   | 14   | 22  | 22   | 21   | 19   | 19   |
|                  | MEAN:           | **   | 9    | 9    | 7    | 8    | 9    | 9    | 14  | 16   | 17   | 16   | 14   |
|                  | MINIMUM:        | **   | 3    | 6    | 1    | 3    | 3    | 3    | 5   | 11   | 13   | 12   | 11   |
| 1968             | MAXIMUM:        | 17   | 15   | 11   | 11   | 18   | 18   | 19   | 18  | 17   | 17   | 19   | 17   |
|                  | MEAN:           | 12   | 10   | 5    | 6    | 11   | 10   | 12   | 13  | 13   | 13   | 13   | 14   |
|                  | MINIMUM:        | 6    | 3    | 0    | 0    | 3    | 3    | 5    | 7   | 8    | 10   | 9    | 12   |
| 1964-1968        | MAXIMUM:        | 18   | 17   | 15   | 13   | 18   | 18   | 23   | 22  | 22   | 21   | 19   | 19   |
|                  | MEAN:           | 13   | 10   | 7    | 7    | 9    | 10   | 12   | 14  | 15   | 15   | 15   | 14   |
|                  | MINIMUM:        | 6    | 2    | 0    | 0    | 3    | 2    | 3    | 5   | 8    | 10   | 9    | 11   |
|                  | DAYS OF RECORD: | 56   | 145  | 138  | 143  | 123  | 144  | 150  | 155 | 141  | 88   | 66   | 40   |
| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
| 1963-68          | MAXIMUM:        | 16   | 14   | 13   | 10   | 12   | 13   | 14   | 18  | 20   | 21   | 17   | 16   |
|                  | MEAN:           | 14   | 12   | 9    | 8    | 11   | 12   | 13   | 16  | 17   | 16   | 16   | 14   |
|                  | MINIMUM:        | 10   | 8    | 2    | 4    | 9    | 8    | 11   | 14  | 15   | 14   | 14   | 12   |
|                  | DAYS OF RECORD: | 5    | 6    | 10   | 6    | 3    | 6    | 3    | 4   | 6    | 4    | 3    | 3    |

## RUSSIAN RIVER BASIN

USGS: 11-4609.4 RUSSIAN RIVER NEAR REDWOOD VALLEY, CALIF.  
DWR: F-9-1875

LOCATION.--LAT 39 19 10, LONG 123 13 20, NW1/4 SEC. 20, T.17 N, R.12 W,  
ON LEFT BANK 600 FT UPSTREAM FROM ROCKY CREEK AND 3.8 MILES NORTH OF  
TOWN OF REDWOOD VALLEY, MENDOCINO COUNTY.  
ALTITUDE OF GAGE.--800 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--14.1 SQ. MI.  
RECORDS AVAILABLE.--36 PERIODIC OBSERVATIONS FROM AUGUST 1963 THROUGH JUNE 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 24 DEG. C, JUNE 13, 1968  
MINIMUM = 3 DEG. C, JAN. 14, 1964

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1963-68          | MAXIMUM:        | **   | 17   | 10   | 9    | 13   | 15   | 19   | 18  | 24   | 21   | 22   | 21   |
|                  | MEAN:           | **   | 14   | 7    | 7    | 9    | 9    | 14   | 16  | 19   | 19   | 22   | 21   |
|                  | MINIMUM:        | **   | 12   | 4    | 3    | 4    | 6    | 7    | 14  | 15   | 17   | 22   | 21   |
|                  | DAYS OF RECORD: | 0    | 2    | 5    | 3    | 5    | 4    | 4    | 4   | 5    | 2    | 1    | 1    |

USGS: 11-4610. RUSSIAN RIVER NEAR UKIAH, CALIF.  
DWR: F-9-1850

LOCATION.--LAT 39 12 7, LONG 123 11 55, SE1/4NW1/4 SEC.33, T.16 N, R.12 W,  
IN YOKAYO RANCHO GRANT, ON LEFT BANK 200 FT DOWNSTREAM FROM YORK CREEK,  
0.7 MILE UPSTREAM FROM EAST FORK, AND 3.6 MILES NORTH OF UKIAH,  
MENDOCINO COUNTY.  
ALTITUDE OF GAGE.--612 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--99.7 SQ. MI.  
RECORDS AVAILABLE.--229 PERIODIC OBSERVATIONS FROM MAY 1951 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--173 CFS FOR 17 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 31 DEG. C, JULY 12, 1967  
MINIMUM = 3 DEG. C, JAN. 5, 1968  
PERIODIC DATA:  
MAXIMUM = 31 DEG. C, JULY 12, 1954  
MINIMUM = 4 DEG. C, DEC. 27, 1956

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR |          | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965 | MAXIMUM: | **   | 12   | 12   | 10   | 10   | 12   | 15   | 24  | 25   | 27   | 27   | 26   |
|      | MEAN:    | **   | 11   | 10   | 9    | 9    | 11   | 12   | 14  | 22   | 24   | 26   | 25   |
|      | MINIMUM: | **   | 7    | 7    | 7    | 8    | 9    | 11   | 11  | 20   | 22   | 26   | 24   |

# RUSSIAN RIVER BASIN

USGS: 11-4610.--Continued

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR  |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966  | MAXIMUM:        | 24   | 18   | 13   | 9    | 9    | 14   | 17   | 24  | 26   | 26   | 27   | 27   |
|       | MEAN:           | 21   | 12   | 11   | 9    | 8    | 9    | 15   | 21  | 24   | 25   | 26   | 26   |
|       | MINIMUM:        | 19   | 11   | 9    | 9    | 7    | 8    | 12   | 16  | 23   | 21   | 26   | 25   |
| 1967  | MAXIMUM:        | 21   | 19   | 12   | 12   | 13   | 13   | 12   | 26  | 26   | 31   | 29   | 29   |
|       | MEAN:           | 19   | 14   | 10   | 8    | 11   | 10   | 10   | 20  | 21   | 26   | 26   | 26   |
|       | MINIMUM:        | 18   | 9    | 6    | 6    | 8    | 8    | 7    | 15  | 14   | 22   | 18   | 21   |
| 1968  | MAXIMUM:        | 23   | 20   | 12   | 12   | 16   | 16   | 21   | 25  | 15   | 22   | 22   | 29   |
|       | MEAN:           | 21   | 14   | 8    | 8    | 12   | 12   | 15   | 18  | 15   | 22   | 22   | 29   |
|       | MINIMUM:        | 18   | 8    | 4    | 3    | 7    | 8    | 11   | 13  | 15   | 22   | 22   | 29   |
| 1965- | MAXIMUM:        | 24   | 20   | 13   | 12   | 16   | 16   | 21   | 26  | 26   | 31   | 29   | 29   |
| 1968  | MEAN:           | 20   | 13   | 10   | 9    | 10   | 11   | 13   | 18  | 21   | 24   | 25   | 27   |
|       | MINIMUM:        | 18   | 7    | 4    | 3    | 7    | 8    | 7    | 11  | 14   | 21   | 18   | 21   |
|       | DAYS OF RECORD: | 30   | 74   | 91   | 99   | 79   | 88   | 81   | 53  | 32   | 28   | 29   | 27   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-68          | MAXIMUM:        | 23   | 16   | 12   | 17   | 15   | 18   | 21   | 25  | 31   | 31   | 30   | 29   |
|                  | MEAN:           | 19   | 13   | 9    | 9    | 11   | 12   | 15   | 18  | 22   | 23   | 24   | 22   |
|                  | MINIMUM:        | 13   | 10   | 4    | 6    | 6    | 7    | 10   | 13  | 15   | 12   | 17   | 16   |
|                  | DAYS OF RECORD: | 16   | 16   | 20   | 29   | 19   | 17   | 19   | 21  | 20   | 18   | 16   | 18   |

USGS: 11-4615. EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.  
DWR: F-9-4200 RUSSIAN RIVER EAST FORK NEAR CALPELLA.

LOCATION.--LAT 39 14 48, LONG 123 7 45, NW1/4 SEC. 18, T-16 N, R-11 W,  
ON LEFT BANK 0.1 MILE DOWNSTREAM FROM COLD CREEK AND 3.9 MILES EAST OF  
CALPELLA, MENDOCINO COUNTY.

ALTITUDE OF GAGE.--788 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--92.2 SQ. MI.

RECORDS AVAILABLE.--326 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH SEPTEMBER 1968.

CONTINUOUS RECORD FROM OCTOBER 1963 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--334 CFS FOR 26 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN IN 1900.

PRIOR TO APRIL 6, 1966, AT SITE 0.4 MILE DOWNSTREAM.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 26 DEG. C, JUNE 19, 1968

MINIMUM = 4 DEG. C, DEC. 16, 1965, DEC. 17, 1965, DEC. 18, 1965, DEC. 19, 1965, DEC. 20, 1965

PERIODIC DATA:

MAXIMUM = 25 DEG. C, AUG. 4, 1952, SEP. 14, 1953, JULY 12, 1954

MINIMUM = 3 DEG. C, JAN. 13, 1950

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR  |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964  | MAXIMUM:        | **   | **   | **   | **   | **   | 13   | 17   | 19  | 23   | 24   | 23   | 23   |
|       | MEAN:           | **   | **   | **   | **   | **   | 11   | 14   | 16  | 19   | 21   | 21   | 19   |
|       | MINIMUM:        | **   | **   | **   | **   | **   | 7    | 9    | 14  | 14   | 19   | 17   | 16   |
| 1965  | MAXIMUM:        | 21   | 16   | 12   | 7    | 15   | 15   | 16   | 19  | 22   | 24   | 22   | **   |
|       | MEAN:           | 18   | 11   | 9    | 7    | 11   | 13   | 12   | 16  | 19   | 21   | 20   | **   |
|       | MINIMUM:        | 14   | 8    | 6    | 7    | 6    | 9    | 9    | 13  | 15   | 16   | 18   | **   |
| 1967  | MAXIMUM:        | **   | **   | **   | 11   | **   | **   | **   | 18  | 13   | **   | 23   | 22   |
|       | MEAN:           | **   | **   | **   | 8    | **   | **   | **   | 14  | 12   | **   | 22   | 22   |
|       | MINIMUM:        | **   | **   | **   | 6    | **   | **   | **   | 11  | 11   | **   | 20   | 21   |
| 1968  | MAXIMUM:        | 17   | 17   | 9    | 9    | 14   | 13   | 17   | **  | **   | **   | **   | **   |
|       | MEAN:           | 16   | 13   | 7    | 7    | 11   | 11   | 13   | **  | **   | **   | **   | **   |
|       | MINIMUM:        | 14   | 9    | 4    | 4    | 7    | 9    | 11   | **  | **   | **   | **   | **   |
| 1964- | MAXIMUM:        | 21   | 17   | 12   | 11   | 15   | 15   | 17   | 19  | 23   | 24   | 23   | 23   |
| 1968  | MEAN:           | 17   | 12   | 8    | 7    | 11   | 12   | 13   | 15  | 17   | 21   | 21   | 21   |
|       | MINIMUM:        | 14   | 8    | 4    | 4    | 6    | 7    | 9    | 11  | 11   | 16   | 17   | 16   |
|       | DAYS OF RECORD: | 15   | 33   | 36   | 40   | 45   | 78   | 49   | 51  | 42   | 42   | 28   | 29   |



# RUSSIAN RIVER BASIN

USGS: 11-4615.--Continued

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | 22   | 22   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | 20   | 19   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | 18   | 16   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1966      | MAXIMUM:        | 19   | 14   | 10   | 11   | 11   | 14   | 14   | 21  | 24   | 23   | 23   | 23   |
|           | MEAN:           | 16   | 11   | 7    | 7    | 8    | 10   | 13   | 16  | 18   | 19   | 20   | 20   |
|           | MINIMUM:        | 13   | 7    | 4    | 4    | 6    | 7    | 10   | 13  | 13   | 14   | 16   | 18   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967      | MAXIMUM:        | 20   | 15   | 10   | 9    | 10   | 9    | 9    | 11  | 15   | 18   | 18   | **   |
|           | MEAN:           | 17   | 10   | 8    | 9    | 9    | 8    | 8    | 10  | 14   | 17   | 18   | **   |
|           | MINIMUM:        | 14   | 5    | 6    | 9    | 9    | 6    | 6    | 9   | 14   | 14   | 17   | **   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1968      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | 19   | 23  | 26   | 24   | 25   | 23   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | 17   | 17  | 20   | 19   | 19   | 21   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | 15   | 13  | 16   | 16   | 15   | 17   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1965-1968 | MAXIMUM:        | 20   | 15   | 10   | 11   | 11   | 14   | 19   | 23  | 26   | 24   | 25   | 23   |
|           | MEAN:           | 17   | 11   | 8    | 8    | 9    | 9    | 13   | 14  | 17   | 18   | 19   | 20   |
|           | MINIMUM:        | 13   | 5    | 4    | 4    | 6    | 6    | 6    | 9   | 13   | 14   | 15   | 16   |
|           | DAYS OF RECORD: | 60   | 55   | 59   | 32   | 56   | 62   | 62   | 71  | 84   | 93   | 85   | 90   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68          | MAXIMUM:        | 21   | 16   | 12   | 13   | 13   | 13   | 17   | 18  | 22   | 25   | 25   | 25   |
|                  | MEAN:           | 17   | 12   | 7    | 7    | 8    | 9    | 12   | 14  | 18   | 21   | 20   | 21   |
|                  | MINIMUM:        | 12   | 8    | 4    | 3    | 4    | 4    | 7    | 10  | 13   | 15   | 17   | 16   |
|                  | DAYS OF RECORD: | 24   | 28   | 40   | 35   | 31   | 24   | 31   | 25  | 22   | 19   | 22   | 25   |

USGS: 11-4620. EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.  
DWR: F-9-4100 RUSSIAN RIVER EAST FORK NEAR UKIAH.

LOCATION.--LAT 39 11 45, LONG 123 11 30, NE1/4SE1/4 SEC.33, T.16 N, R.12 W,  
IN YOKAYO RANCHO GRANT, ON RIGHT BANK OF OUTLET CHANNEL, 500 FT  
DOWNSTREAM FROM COYOTE DAM, 1,300 FT UPSTREAM FROM MOUTH, AND 3.2 MILES  
NORTHEAST OF UKIAH, MENDOCINO COUNTY.  
ALTITUDE OF GAGE.--614 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--105 SQ. MI.  
RECORDS AVAILABLE.--178 PERIODIC OBSERVATIONS FROM SEPTEMBER 1951 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1952 THROUGH SEPTEMBER 1967.  
AVERAGE DISCHARGE.--332 CFS FOR 16 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN NOVEMBER 1958.

### EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 24 DEG. C, AUG. 9, 1953, SEP. 3, 1953, SEP. 10, 1953  
MINIMUM = 3 DEG. C, JAN. 3, 1955

### PERIODIC DATA:

MAXIMUM = 24 DEG. C, AUG. 2, 1954  
MINIMUM = 4 DEG. C, MAR. 25, 1964

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1953      | MAXIMUM:        | **   | **   | 53   | 57   | 55   | 51   | 56   | 62  | 61   | 65   | 75   | 75   |
|           | MEAN:           | **   | **   | 48   | 50   | 49   | 48   | 52   | 55  | 59   | 62   | 66   | 68   |
|           | MINIMUM:        | **   | **   | 45   | 42   | 44   | 44   | 45   | 48  | 52   | 59   | 60   | 63   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1954      | MAXIMUM:        | 65   | 55   | 55   | 50   | 55   | 52   | 62   | 61  | 68   | 68   | 68   | 65   |
|           | MEAN:           | 59   | 52   | 45   | 45   | 47   | 48   | 54   | 56  | 60   | 64   | 63   | 61   |
|           | MINIMUM:        | 53   | 48   | 40   | 40   | 42   | 45   | 46   | 54  | 54   | 62   | 61   | 58   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1955      | MAXIMUM:        | 60   | 58   | 50   | 45   | 46   | 55   | **   | **  | **   | **   | **   | **   |
|           | MEAN:           | 59   | 50   | 45   | 41   | 41   | 46   | **   | **  | **   | **   | **   | **   |
|           | MINIMUM:        | 52   | 44   | 39   | 37   | 38   | 39   | **   | **  | **   | **   | **   | **   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1953-1955 | MAXIMUM:        | 65   | 58   | 55   | 57   | 55   | 55   | 62   | 62  | 68   | 68   | 75   | 75   |
|           | MEAN:           | 59   | 51   | 46   | 45   | 46   | 47   | 53   | 56  | 60   | 63   | 65   | 65   |
|           | MINIMUM:        | 52   | 44   | 39   | 37   | 38   | 39   | 45   | 48  | 52   | 59   | 60   | 58   |
|           | DAYS OF RECORD: | 23   | 41   | 83   | 93   | 84   | 93   | 55   | 62  | 60   | 29   | 21   | 18   |

RUSSIAN RIVER BASIN

USGS: 11-4620.--Continued

WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1965      | MAXIMUM:        | 19   | 16   | 12   | 10   | 10   | 9    | 11   | 13  | 14   | 16   | 16   | 18   |
|           | MEAN:           | 17   | 12   | 10   | 9    | 9    | 9    | 9    | 11  | 13   | 14   | 14   | 15   |
|           | MINIMUM:        | 15   | 11   | 9    | 9    | 8    | 8    | 8    | 10  | 11   | 13   | 14   | 14   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1966      | MAXIMUM:        | 18   | 17   | 14   | 10   | 9    | 9    | 10   | 11  | 12   | 13   | 18   | 21   |
|           | MEAN:           | 17   | 15   | 11   | 9    | 8    | 8    | 9    | 10  | 11   | 13   | 16   | 18   |
|           | MINIMUM:        | 14   | 12   | 7    | 8    | 6    | 8    | 8    | 9   | 10   | 11   | 13   | 17   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967      | MAXIMUM:        | 20   | 19   | 13   | 13   | 10   | 11   | 9    | 14  | 13   | 14   | 19   | 21   |
|           | MEAN:           | 18   | 14   | 11   | 9    | 9    | 9    | 9    | 12  | 12   | 13   | 17   | 18   |
|           | MINIMUM:        | 16   | 12   | 10   | 7    | 4    | 9    | 8    | 9   | 11   | 12   | 14   | 17   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1968      | MAXIMUM:        | 19   | 19   | 13   | 9    | 10   | 11   | 12   | 13  | 12   | 12   | 16   | 19   |
|           | MEAN:           | 18   | 16   | 10   | 8    | 8    | 9    | 12   | 11  | 12   | 12   | 16   | 19   |
|           | MINIMUM:        | 16   | 13   | 6    | 6    | 7    | 8    | 10   | 9   | 11   | 12   | 16   | 19   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1960-1968 | MAXIMUM:        | 20   | 19   | 14   | 13   | 10   | 11   | 12   | 14  | 14   | 16   | 19   | 21   |
|           | MEAN:           | 18   | 14   | 11   | 9    | 9    | 9    | 10   | 11  | 12   | 13   | 16   | 18   |
|           | MINIMUM:        | 14   | 11   | 6    | 6    | 4    | 8    | 8    | 9   | 10   | 11   | 13   | 14   |
|           | DAYS OF RECORD: | 48   | 81   | 91   | 96   | 84   | 93   | 82   | 60  | 36   | 29   | 31   | 29   |

WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967 | MAXIMUM:        | 20   | 15   | 10   | 9    | 10   | 9    | 9    | 11  | 15   | 18   | 18   | **   |
|      | MEAN:           | 17   | 10   | 8    | 9    | 9    | 8    | 8    | 10  | 14   | 17   | 18   | **   |
|      | MINIMUM:        | 14   | 5    | 6    | 9    | 9    | 6    | 6    | 9   | 14   | 14   | 17   | **   |
|      |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967 | MAXIMUM:        | 20   | 15   | 10   | 9    | 10   | 9    | 9    | 11  | 15   | 18   | 18   | **   |
|      | MEAN:           | 17   | 10   | 8    | 9    | 9    | 8    | 8    | 10  | 14   | 17   | 18   | **   |
|      | MINIMUM:        | 14   | 5    | 6    | 9    | 9    | 6    | 6    | 9   | 14   | 14   | 17   | **   |
|      | DAYS OF RECORD: | 31   | 30   | 28   | 1    | 28   | 31   | 30   | 9   | 24   | 31   | 8    | 0    |

WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-59          | MAXIMUM:        | 21   | 13   | 10   | 16   | 10   | 12   | 14   | 20  | 19   | 21   | 24   | 22   |
|                  | MEAN:           | 16   | 11   | 9    | 9    | 9    | 9    | 12   | 14  | 17   | 19   | 21   | 19   |
|                  | MINIMUM:        | 13   | 10   | 6    | 6    | 7    | 7    | 9    | 9   | 11   | 14   | 18   | 17   |
|                  | DAYS OF RECORD: | 8    | 3    | 6    | 14   | 5    | 5    | 7    | 6   | 6    | 5    | 3    | 5    |
| 1960-68          | MAXIMUM:        | 20   | 19   | 12   | 9    | 9    | 10   | 12   | 14  | 13   | 16   | 19   | 20   |
|                  | MEAN:           | 17   | 16   | 10   | 8    | 8    | 8    | 10   | 11  | 12   | 13   | 16   | 18   |
|                  | MINIMUM:        | 15   | 10   | 7    | 6    | 7    | 4    | 9    | 9   | 10   | 11   | 13   | 16   |
|                  | DAYS OF RECORD: | 6    | 6    | 16   | 12   | 11   | 7    | 7    | 9   | 9    | 7    | 8    | 7    |

# RUSSIAN RIVER BASIN

USGS: 11-4625. RUSSIAN RIVER NEAR HOPLAND, CALIF.  
DWR: F-9-1765

LOCATION.--LAT 39 1 35, LONG 123 7 45, NE1/4SW1/4 SEC.36, T.14 N, R.12 W,  
IN RANCHO DE SANEL GRANT, ON RIGHT BANK AT ABANDONED HIGHWAY BRIDGE,  
0.2 MILE DOWNSTREAM FROM MCNAB CREEK, 4 MILES NORTH OF HOPLAND,  
AND 17 MILES UPSTREAM FROM SULPHUR CREEK, MENDOCINO COUNTY.

ALTITUDE OF GAGE.--498 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--362 SQ. MI.

RECORDS AVAILABLE.--319 PERIODIC OBSERVATIONS FROM FEBRUARY 1950 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--712 CFS FOR 28 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN NOVEMBER 1958.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 26 DEG. C, SEP. 17, 1968  
MINIMUM = 6 DEG. C, FEB. 8, 1966, FEB. 9, 1966

PERIODIC DATA:

MAXIMUM = 29 DEG. C, JULY 12, 1954  
MINIMUM = 4 DEG. C, MAR. 24, 1964

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965      | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | 20   |
|           | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | 17   |
|           | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | 13   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1966      | MAXIMUM:        | 21   | 18   | 12   | 9    | 9    | 10   | 12   | 12  | 22   | 21   | 22   | 22   |
|           | MEAN:           | 17   | 14   | 9    | 8    | 8    | 8    | 11   | 12  | 17   | 17   | 19   | 19   |
|           | MINIMUM:        | 14   | 11   | 7    | 7    | 6    | 7    | 9    | 11  | 13   | 14   | 16   | 16   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967      | MAXIMUM:        | 21   | 17   | 13   | 11   | 14   | 15   | 12   | 18  | 17   | 20   | **   | 21   |
|           | MEAN:           | 17   | 14   | 12   | 9    | 11   | 11   | 9    | 14  | 15   | 19   | **   | 19   |
|           | MINIMUM:        | 11   | 11   | 10   | 8    | 8    | 8    | 7    | 10  | 12   | 17   | **   | 17   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1968      | MAXIMUM:        | 21   | 18   | 12   | 11   | 14   | 13   | 12   | **  | **   | **   | **   | 26   |
|           | MEAN:           | 18   | 16   | 10   | 9    | 12   | 10   | 12   | **  | **   | **   | **   | 20   |
|           | MINIMUM:        | 16   | 12   | 8    | 7    | 9    | 8    | 11   | **  | **   | **   | **   | 17   |
|           |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1965-1968 | MAXIMUM:        | 21   | 18   | 13   | 11   | 14   | 15   | 12   | 18  | 22   | 21   | 22   | 26   |
|           | MEAN:           | 17   | 15   | 10   | 9    | 10   | 10   | 11   | 13  | 16   | 18   | 19   | 19   |
|           | MINIMUM:        | 11   | 11   | 7    | 7    | 6    | 7    | 7    | 10  | 12   | 14   | 16   | 13   |
|           | DAYS OF RECORD: | 85   | 90   | 93   | 93   | 78   | 89   | 65   | 24  | 37   | 43   | 25   | 96   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-59          | MAXIMUM:        | 23   | 25   | 13   | 14   | 14   | 12   | 18   | 22  | 24   | 29   | 25   | 27   |
|                  | MEAN:           | 18   | 14   | 10   | 9    | 9    | 10   | 14   | 17  | 19   | 23   | 23   | 21   |
|                  | MINIMUM:        | 14   | 11   | 7    | 7    | 7    | 8    | 11   | 13  | 16   | 18   | 17   | 17   |
|                  | DAYS OF RECORD: | 16   | 8    | 12   | 14   | 11   | 13   | 13   | 15  | 13   | 15   | 12   | 14   |
| 1960-68          | MAXIMUM:        | 21   | 18   | 13   | 11   | 13   | 12   | 17   | 21  | 22   | 22   | 22   | 22   |
|                  | MEAN:           | 18   | 14   | 10   | 9    | 10   | 10   | 13   | 16  | 18   | 18   | 18   | 19   |
|                  | MINIMUM:        | 15   | 10   | 8    | 6    | 6    | 4    | 9    | 11  | 15   | 14   | 14   | 17   |
|                  | DAYS OF RECORD: | 12   | 15   | 11   | 13   | 15   | 14   | 12   | 19  | 13   | 14   | 13   | 12   |

USGS: 11-4627. FELIZ CREEK NEAR HOPLAND, CALIF.  
DWR: F-9-1730

LOCATION.--LAT 38 58 20, LONG 123 8 30, SE1/4NE1/4 SEC.23, T.13 N, R.12 W,  
IN RANCHO DE SANEL GRANT, ON LEFT BANK JUST UPSTREAM FROM COUNTY ROAD  
BRIDGE, 0.1 MILE UPSTREAM FROM JOHNSON CREEK, AND 1.4 MILES WEST OF  
HOPLAND, MENDOCINO COUNTY.

ALTITUDE OF GAGE.--507 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--31.1 SQ. MI.

RECORDS AVAILABLE.--54 PERIODIC OBSERVATIONS FROM DECEMBER 1958 THROUGH JUNE 1966.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--46.5 CFS FOR 8 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

STATION DISCONTINUED SEPT. 1966.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 28 DEG. C, JULY 6, 1960, JUNE 21, 1962, JULY 28, 1965  
MINIMUM = 2 DEG. C, DEC. 18, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-66          | MAXIMUM:        | 18   | 13   | 12   | 10   | 12   | 11   | 20   | 21  | 28   | 28   | 25   | **   |
|                  | MEAN:           | 18   | 11   | 8    | 8    | 9    | 9    | 16   | 17  | 24   | 24   | 24   | **   |
|                  | MINIMUM:        | 18   | 9    | 2    | 7    | 7    | 8    | 12   | 12  | 18   | 18   | 24   | **   |
|                  | DAYS OF RECORD: | 1    | 5    | 7    | 7    | 8    | 6    | 2    | 7   | 5    | 4    | 2    | 0    |

# RUSSIAN RIVER BASIN

USGS: 11-4630. RUSSIAN RIVER NEAR CLOVERDALE, CALIF.  
DWR: F-9-1680

LOCATION.--LAT 38 52 55, LONG 123 3 15, SW1/4 SEC. 14, T.12 N, R.11 W,  
ON LEFT BANK AT LAMBERT RANCH, 400 FT DOWNSTREAM FROM CUMMISKY CREEK  
AND 5 MILES NORTHWEST OF CLOVERDALE, MENDOCINO COUNTY.  
ALTITUDE OF GAGE.--374 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--502 SQ. MI.  
RECORDS AVAILABLE.--176 PERIODIC OBSERVATIONS FROM SEPTEMBER 1951 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1963 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--984 CFS FOR 16 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN NOVEMBER 1958.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 26 DEG. C, MAY 28, 1968, JULY 24, 1964, AUG. 24, 1964  
MINIMUM = 4 DEG. C, JAN. 12, 1968  
PERIODIC DATA:  
MAXIMUM = 25 DEG. C, JULY 18, 1956  
MINIMUM = 6 DEG. C, JAN. 12, 1955, DEC. 31, 1956, MAR. 13, 1967

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964          | MAXIMUM:        | **   | 13   | 8    | 7    | 8    | 15   | 20   | 24  | 25   | 26   | 26   | 23   |
|               | MEAN:           | **   | 13   | 8    | 7    | 8    | 12   | 16   | 19  | 21   | 24   | 23   | 22   |
|               | MINIMUM:        | **   | 13   | 8    | 7    | 8    | 7    | 11   | 16  | 16   | 22   | 22   | 19   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1966          | MAXIMUM:        | 20   | 17   | 12   | 13   | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MEAN:           | 18   | 14   | 9    | 9    | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MINIMUM:        | 17   | 11   | 7    | 6    | **   | **   | **   | **  | **   | **   | **   | **   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967          | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | 21  | 15   | **   | **   | **   |
|               | MEAN:           | **   | **   | **   | **   | **   | **   | **   | 19  | 14   | **   | **   | **   |
|               | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | 15  | 12   | **   | **   | **   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1968          | MAXIMUM:        | **   | 9    | 11   | 10   | 14   | 14   | 16   | **  | **   | **   | **   | **   |
|               | MEAN:           | **   | 9    | 9    | 7    | 10   | 11   | 13   | **  | **   | **   | **   | **   |
|               | MINIMUM:        | **   | 9    | 8    | 4    | 6    | 8    | 11   | **  | **   | **   | **   | **   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1964-<br>1968 | MAXIMUM:        | 20   | 17   | 12   | 13   | 14   | 15   | 20   | 24  | 25   | 26   | 26   | 23   |
|               | MEAN:           | 18   | 12   | 9    | 8    | 9    | 12   | 15   | 19  | 18   | 24   | 23   | 22   |
|               | MINIMUM:        | 17   | 9    | 7    | 4    | 6    | 7    | 11   | 15  | 12   | 22   | 22   | 19   |
|               | DAYS OF RECORD: | 9    | 19   | 27   | 41   | 20   | 33   | 22   | 20  | 15   | 14   | 12   | 14   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965          | MAXIMUM:        | **   | 12   | 13   | 13   | 11   | 14   | 18   | 21  | 23   | 24   | 22   | 20   |
|               | MEAN:           | **   | 10   | 10   | 11   | 9    | 11   | 12   | 16  | 19   | 21   | 19   | 18   |
|               | MINIMUM:        | **   | 8    | 7    | 8    | 7    | 8    | 7    | 11  | 14   | 18   | 16   | 16   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1966          | MAXIMUM:        | 20   | **   | 8    | 10   | 12   | 17   | 19   | 19  | 22   | 18   | 20   | 22   |
|               | MEAN:           | 19   | **   | 8    | 8    | 10   | 12   | 16   | 16  | 18   | 17   | 18   | 19   |
|               | MINIMUM:        | 17   | **   | 7    | 7    | 7    | 9    | 14   | 13  | 14   | 14   | 15   | 17   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1967          | MAXIMUM:        | 20   | 17   | 13   | 11   | 12   | 13   | 11   | 16  | 22   | 23   | 21   | 21   |
|               | MEAN:           | 17   | 14   | 11   | 9    | 9    | 10   | 9    | 12  | 18   | 20   | 19   | 19   |
|               | MINIMUM:        | 14   | 11   | 7    | 7    | 7    | 7    | 7    | 8   | 12   | 17   | 17   | 16   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1968          | MAXIMUM:        | 21   | 18   | 10   | 9    | **   | **   | 21   | 26  | 24   | 23   | 23   | 23   |
|               | MEAN:           | 18   | 15   | 8    | 8    | **   | **   | 16   | 20  | 21   | 21   | 20   | 20   |
|               | MINIMUM:        | 17   | 11   | 6    | 6    | **   | **   | 12   | 15  | 17   | 18   | 17   | 16   |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |
| 1965-<br>1968 | MAXIMUM:        | 21   | 18   | 13   | 13   | 12   | 17   | 21   | 26  | 24   | 24   | 23   | 23   |
|               | MEAN:           | 18   | 13   | 9    | 9    | 9    | 11   | 13   | 16  | 19   | 20   | 19   | 19   |
|               | MINIMUM:        | 14   | 8    | 6    | 6    | 7    | 7    | 7    | 8   | 12   | 14   | 15   | 16   |
|               | DAYS OF RECORD: | 60   | 71   | 80   | 74   | 84   | 89   | 107  | 88  | 109  | 91   | 116  | 120  |
|               |                 |      |      |      |      |      |      |      |     |      |      |      |      |

# RUSSIAN RIVER BASIN

USGS: 11-4630.--Continued

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1951-59             | MAXIMUM:        | 17   | 15   | 12   | 12   | 9    | 12   | 17   | 18  | 24   | 25   | 22   | 22   |
|                     | MEAN:           | 14   | 14   | 9    | 9    | 9    | 10   | 13   | 15  | 21   | 22   | 21   | 21   |
|                     | MINIMUM:        | 12   | 13   | 6    | 6    | 9    | 7    | 11   | 13  | 18   | 20   | 20   | 19   |
|                     | DAYS OF RECORD: | 6    | 3    | 5    | 7    | 1    | 3    | 5    | 5   | 5    | 6    | 5    | 5    |
| 1960-68             | MAXIMUM:        | 19   | 16   | 12   | 12   | 10   | 14   | 16   | 18  | 22   | 23   | 23   | 23   |
|                     | MEAN:           | 17   | 13   | 9    | 9    | 9    | 11   | 12   | 15  | 18   | 19   | 19   | 19   |
|                     | MINIMUM:        | 15   | 11   | 7    | 7    | 8    | 6    | 9    | 11  | 13   | 17   | 18   | 16   |
|                     | DAYS OF RECORD: | 7    | 11   | 14   | 18   | 10   | 12   | 11   | 8   | 8    | 8    | 7    | 6    |

USGS: 11-4632. BIG SULPHUR CREEK NEAR CLOVERDALE, CALIF.  
DWR: F-9-1600

LOCATION.--LAT 38 49 21, LONG 122 59 7, SW1/4SW1/4 SEC.4, T.11 N, R.10 W,  
ON RIGHT BANK 0.5 MILE DOWNSTREAM FROM UNNAMED TRIBUTARY, 1.9 MILES  
UPSTREAM FROM MOUTH, AND 2.0 MILES NORTHEAST OF CLOVERDALE,  
SONOMA COUNTY.

ALTITUDE OF GAGE.--393 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--82.3 SQ. MI.

RECORDS AVAILABLE.--132 PERIODIC OBSERVATIONS FROM JULY 1957 THROUGH SEPTEMBER 1968.

CONTINUOUS RECORD FROM OCTOBER 1966 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--190 CFS FOR 10 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 27 DEG. C, JULY 12, 1967

MINIMUM = 3 DEG. C, DEC. 15, 1968, DEC. 20, 1968, JAN. 3, 1968

PERIODIC DATA:

MAXIMUM = 27 DEG. C, AUG. 3, 1961

MINIMUM = 4 DEG. C, DEC. 13, 1967

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1967          | MAXIMUM:        | 21   | 16   | 12   | 12   | 12   | 13   | 12   | 24  | 27   | 27   | 27   | 24   |
|               | MEAN:           | 17   | 12   | 10   | 8    | 9    | 10   | 9    | 18  | 19   | 23   | 23   | 22   |
|               | MINIMUM:        | 14   | 8    | 4    | 4    | 8    | 6    | 8    | 10  | 11   | 17   | 18   | 18   |
| 1968          | MAXIMUM:        | 18   | 17   | 11   | 11   | 13   | 17   | 20   | 15  | 24   | 21   | 24   | 23   |
|               | MEAN:           | 16   | 12   | 7    | 7    | 11   | 11   | 13   | 15  | 24   | 21   | 24   | 23   |
|               | MINIMUM:        | 13   | 7    | 3    | 3    | 7    | 8    | 9    | 15  | 24   | 21   | 24   | 23   |
| 1967-<br>1968 | MAXIMUM:        | 21   | 17   | 12   | 12   | 13   | 17   | 20   | 24  | 27   | 27   | 27   | 24   |
|               | MEAN:           | 17   | 12   | 9    | 8    | 10   | 11   | 11   | 17  | 22   | 22   | 24   | 23   |
|               | MINIMUM:        | 13   | 7    | 3    | 3    | 7    | 6    | 8    | 10  | 11   | 17   | 18   | 18   |
|               | DAYS OF RECORD: | 18   | 34   | 45   | 41   | 29   | 24   | 21   | 15  | 8    | 6    | 7    | 6    |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1957-68             | MAXIMUM:        | 21   | 17   | 12   | 27   | 17   | 16   | 17   | 22  | 24   | 26   | 27   | 25   |
|                     | MEAN:           | 17   | 12   | 8    | 9    | 11   | 11   | 13   | 18  | 19   | 23   | 24   | 22   |
|                     | MINIMUM:        | 14   | 8    | 4    | 4    | 4    | 4    | 9    | 14  | 11   | 18   | 19   | 19   |
|                     | DAYS OF RECORD: | 9    | 8    | 12   | 17   | 10   | 12   | 8    | 12  | 9    | 11   | 12   | 12   |

USGS: 11-4639. MAACAMA CREEK NEAR KELLOGG, CALIF.  
DWR: F-9-1520

LOCATION.--LAT 38 38 25, LONG 122 45 45, SW1/4 SEC. 9, T.9 N, R.8 W,  
ON RIGHT BANK 0.5 MILE DOWNSTREAM FROM REDWOOD CREEK AND 4.4 MILES WEST  
OF KELLOGG, SONOMA COUNTY.

ALTITUDE OF GAGE.--189 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--43.4 SQ. MI.

RECORDS AVAILABLE.--108 PERIODIC OBSERVATIONS FROM DECEMBER 1960 THROUGH AUGUST 1968.

NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--85.9 CFS FOR 6 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 22 DEG. C, JULY 21, 1964, AUG. 17, 1967

MINIMUM = 3 DEG. C, DEC. 14, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1961-68             | MAXIMUM:        | 17   | 17   | 14   | 13   | 14   | 17   | 19   | 21  | 21   | 22   | 22   | 18   |
|                     | MEAN:           | 15   | 13   | 9    | 8    | 9    | 11   | 13   | 16  | 18   | 20   | 20   | 16   |
|                     | MINIMUM:        | 13   | 11   | 3    | 5    | 6    | 9    | 9    | 12  | 15   | 18   | 18   | 13   |
|                     | DAYS OF RECORD: | 9    | 11   | 12   | 10   | 9    | 12   | 7    | 8   | 11   | 8    | 7    | 4    |

## RUSSIAN RIVER BASIN

USGS: 11-4639.4 FRANZ CREEK NEAR KELLOGG, CALIF.

DWR: F-9-1510

LOCATION.--LAT 38 36 30, LONG 122 41 35, SE1/4 SEC. 24, T.9 N, R.8 W,  
IN MALLACOMES GRANT, ON LEFT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE,  
100 FT DOWNSTREAM FROM BIDWELL CREEK, AND 2 MILES SOUTH OF KELLOGG,  
SONOMA COUNTY.

ALTITUDE OF GAGE.--344 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--15.7 SQ. MI.

RECORDS AVAILABLE.--36 PERIODIC OBSERVATIONS FROM NOVEMBER 1964 THROUGH AUGUST 1968.  
NO CONTINUOUS RECORDS.

AVERAGE DISCHARGE.--

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--PERIODIC DATA:

MAXIMUM = 21 DEG. C, AUG. 1, 1967, JULY 26, 1968, AUG. 30, 1968

MINIMUM = 4 DEG. C, DEC. 12, 1967

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965-68             | MAXIMUM:        | 17   | 14   | 11   | 8    | 10   | 17   | 19   | 20  | 18   | 21   | 21   | 16   |
|                     | MEAN:           | 15   | 13   | 8    | 7    | 8    | 12   | 14   | 17  | 17   | 20   | 21   | 16   |
|                     | MINIMUM:        | 14   | 12   | 4    | 5    | 7    | 9    | 10   | 14  | 16   | 19   | 21   | 16   |
|                     | DAYS OF RECORD: | 3    | 4    | 4    | 2    | 4    | 4    | 2    | 4   | 3    | 3    | 2    | 1    |

USGS: 11-4640. RUSSIAN RIVER NEAR HEALDSBURG, CALIF.

DWR: F-9-1500

LOCATION.--LAT 38 36 48, LONG 122 50 7, SE1/4NE1/4 SEC.22, T.9 N, R.9 W,  
IN SOTOYOME GRANT, ON LEFT BANK 3.5 MILES UPSTREAM FROM DRY CREEK AND  
2 MILES EAST OF HEALDSBURG, SONOMA COUNTY.

ALTITUDE OF GAGE.--77 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--793 SQ. MI.

RECORDS AVAILABLE.--352 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH AUGUST 1968.  
CONTINUOUS RECORD FROM OCTOBER 1965 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--1,405 CFS FOR 28 YEARS OF RECORD.

REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN NOVEMBER 1958.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 26 DEG. C, JUNE 14, 1966, JUNE 15, 1966, JUNE 19, 1966, AUG. 6, 1966, AUG. 7, 1966  
JULY 19, 1968

MINIMUM = 6 DEG. C, DEC. 21, 1965, DEC. 22, 1965, DEC. 23, 1965, JAN. 26, 1966

PERIODIC DATA:

MAXIMUM = 27 DEG. C, JULY 12, 1954

MINIMUM = 5 DEG. C, JAN. 11, 1950

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR      |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1966      | MAXIMUM:        | 22   | 17   | 12   | 13   | 11   | 17   | 22   | 23  | 26   | 26   | 26   | 23   |
|           | MEAN:           | 20   | 13   | 9    | 9    | 9    | 12   | 17   | 19  | 22   | 23   | 23   | 21   |
|           | MINIMUM:        | 18   | 9    | 6    | 6    | 8    | 7    | 12   | 16  | 17   | 21   | 19   | 17   |
| 1967      | MAXIMUM:        | 23   | 17   | 14   | 12   | 13   | 13   | 12   | 22  | 23   | 24   | 22   | 22   |
|           | MEAN:           | 17   | 13   | 11   | 9    | 11   | 11   | 10   | 16  | 19   | 22   | 21   | 20   |
|           | MINIMUM:        | 12   | 11   | 7    | 7    | 9    | 8    | 8    | 11  | 14   | 20   | 19   | 17   |
| 1968      | MAXIMUM:        | 19   | 17   | 12   | 12   | 16   | 17   | 21   | 24  | 25   | 26   | 26   | 24   |
|           | MEAN:           | 16   | 14   | 9    | 9    | 12   | 13   | 16   | 18  | 23   | 23   | 23   | 21   |
|           | MINIMUM:        | 13   | 9    | 7    | 7    | 8    | 11   | 12   | 13  | 20   | 22   | 19   | 15   |
| 1966-1968 | MAXIMUM:        | 23   | 17   | 14   | 13   | 16   | 17   | 22   | 24  | 26   | 26   | 26   | 24   |
|           | MEAN:           | 18   | 13   | 10   | 9    | 11   | 12   | 14   | 18  | 21   | 23   | 22   | 21   |
|           | MINIMUM:        | 12   | 9    | 6    | 6    | 8    | 7    | 8    | 11  | 14   | 20   | 19   | 15   |
|           | DAYS OF RECORD: | 63   | 85   | 93   | 93   | 85   | 93   | 72   | 93  | 90   | 93   | 93   | 91   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-59             | MAXIMUM:        | 21   | 16   | 13   | 14   | 17   | 14   | 18   | 25  | 24   | 27   | 26   | 26   |
|                     | MEAN:           | 18   | 14   | 10   | 10   | 11   | 12   | 14   | 18  | 21   | 23   | 23   | 21   |
|                     | MINIMUM:        | 15   | 10   | 7    | 5    | 7    | 7    | 11   | 14  | 16   | 20   | 19   | 18   |
|                     | DAYS OF RECORD: | 17   | 12   | 16   | 15   | 13   | 12   | 17   | 15  | 17   | 15   | 12   | 17   |
| 1960-68             | MAXIMUM:        | 22   | 18   | 13   | 14   | 16   | 15   | 21   | 22  | 25   | 26   | 24   | 26   |
|                     | MEAN:           | 18   | 14   | 11   | 9    | 11   | 12   | 15   | 18  | 21   | 23   | 22   | 22   |
|                     | MINIMUM:        | 16   | 12   | 7    | 7    | 7    | 9    | 12   | 14  | 16   | 20   | 20   | 18   |
|                     | DAYS OF RECORD: | 14   | 13   | 15   | 14   | 12   | 17   | 14   | 16  | 18   | 16   | 11   | 14   |

# RUSSIAN RIVER BASIN

USGS: 11-4640.5 DRY CREEK TRIBUTARY NEAR HOPLAND, CALIF.  
DWR: F-9-1640

LOCATION.--LAT 38 53 10, LONG 123 9 15, SEC. 13, T.12 N, R.12 W,  
ON RIGHT BANK AT CULVERT ON STATE HIGHWAY NO. 128, 6.5 MILES SOUTHWEST  
OF HOPLAND, MENDOCINO COUNTY.  
ALTITUDE OF GAGE.--800 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--1.27 SQ. MI.  
RECORDS AVAILABLE.-- 8 PERIODIC OBSERVATIONS FROM JANUARY 1962 THROUGH MAY 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 15 DEG. C, MAY 6, 1968  
MINIMUM = 7 DEG. C, JAN. 15, 1962

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1962-68             | MAXIMUM:        | **   | **   | 9    | 12   | 12   | 13   | **   | 15  | **   | **   | **   | **   |
|                     | MEAN:           | **   | **   | 9    | 9    | 12   | 13   | **   | 15  | **   | **   | **   | **   |
|                     | MINIMUM:        | **   | **   | 9    | 7    | 12   | 13   | **   | 15  | **   | **   | **   | **   |
|                     | DAYS OF RECORD: | 0    | 0    | 1    | 4    | 1    | 1    | 0    | 1   | 0    | 0    | 0    | 0    |

USGS: 11-4645. DRY CREEK NEAR CLOVERDALE, CALIF.  
DWR: F-9-1490

LOCATION.--LAT 38 44 59, LONG 123 5 28, NE1/4NE1/4 SEC.5, T.10 N, R.11 W,  
ON LEFT BANK 500 FT DOWNSTREAM FROM SMITH CREEK AND 5 MILES SOUTHWEST  
OF CLOVERDALE, SONOMA COUNTY.  
ALTITUDE OF GAGE.--304 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--87.8 SQ. MI.  
RECORDS AVAILABLE.--164 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1964 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--156 CFS FOR 26 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 33 DEG. C, AUG. 6, 1966, AUG. 7, 1966  
MINIMUM = 3 DEG. C, DEC. 17, 1965, DEC. 15, 1967  
PERIODIC DATA:  
MAXIMUM = 29 DEG. C, JULY 13, 1956  
MINIMUM = 3 DEG. C, DEC. 15, 1967

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR          |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965          | MAXIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MEAN:           | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|               | MINIMUM:        | **   | **   | **   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
| 1966          | MAXIMUM:        | 22   | 18   | 9    | 13   | 13   | 21   | 24   | 26  | 31   | 32   | 33   | 31   |
|               | MEAN:           | 18   | 14   | 7    | 9    | 9    | 12   | 17   | 20  | 22   | 23   | 24   | 21   |
|               | MINIMUM:        | 15   | 12   | 3    | 5    | 7    | 6    | 12   | 14  | 14   | 17   | 15   | 13   |
| 1967          | MAXIMUM:        | 23   | 17   | 14   | 12   | 13   | 16   | 16   | 27  | 29   | 32   | 30   | **   |
|               | MEAN:           | 16   | 14   | 11   | 9    | 11   | 11   | 11   | 18  | 21   | 24   | 24   | **   |
|               | MINIMUM:        | 9    | 9    | 6    | 5    | 7    | 7    | 7    | 9   | 13   | 18   | 20   | **   |
| 1968          | MAXIMUM:        | 26   | 18   | 12   | 11   | 17   | 19   | 23   | 26  | 29   | 28   | 28   | 28   |
|               | MEAN:           | 18   | 13   | 8    | 8    | 12   | 13   | 16   | 18  | 21   | 23   | 22   | 21   |
|               | MINIMUM:        | 13   | 8    | 3    | 3    | 8    | 9    | 10   | 12  | 14   | 17   | 18   | 14   |
| 1965-<br>1968 | MAXIMUM:        | 26   | 18   | 14   | 13   | 17   | 21   | 24   | 27  | 31   | 32   | 33   | 31   |
|               | MEAN:           | 17   | 14   | 9    | 9    | 11   | 12   | 15   | 19  | 21   | 23   | 23   | 21   |
|               | MINIMUM:        | 9    | 8    | 3    | 3    | 7    | 6    | 7    | 9   | 13   | 17   | 15   | 13   |
|               | DAYS OF RECORD: | 68   | 74   | 62   | 93   | 85   | 93   | 89   | 120 | 120  | 124  | 99   | 63   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-68             | MAXIMUM:        | 23   | 18   | 14   | 13   | 16   | 16   | 21   | 21  | 26   | 29   | 27   | 24   |
|                     | MEAN:           | 18   | 13   | 9    | 8    | 11   | 12   | 15   | 17  | 19   | 24   | 23   | 21   |
|                     | MINIMUM:        | 12   | 11   | 3    | 4    | 6    | 7    | 10   | 13  | 15   | 20   | 17   | 18   |
|                     | DAYS OF RECORD: | 11   | 11   | 16   | 18   | 16   | 16   | 12   | 13  | 14   | 15   | 12   | 10   |

## RUSSIAN RIVER BASIN

USGS: 11-4652. DRY CREEK NEAR GEYSERVILLE, CALIF.  
DWR: F-9-1440

LOCATION.--LAT 38 41 55, LONG 122 57 25, NE1/4SW1/4 SEC.22, T.10 N, R.10 W,  
IN TARBACH GRANT, ON LEFT BANK PIER OF BRIDGE, 0.3 MILE DOWNSTREAM FROM  
PENA CREEK AND 3 MILES WEST OF GEYSERVILLE, SONOMA COUNTY.

ALTITUDE OF GAGE.--159 FT ABOVE MEAN SEA LEVEL.

DRAINAGE AREA.--162 SQ. MI.

RECORDS AVAILABLE.--121 PERIODIC OBSERVATIONS FROM DECEMBER 1959 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1963 THROUGH SEPTEMBER 1968.

AVERAGE DISCHARGE.--293 CFS FOR 8 YEARS OF RECORD.

REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.

EXTREMES.--CONTINUOUS DATA:

MAXIMUM = 25 DEG. C, SEP. 15, 1965, SEP. 30, 1965, OCT. 6, 1965

MINIMUM = 3 DEG. C, NOV. 26, 1967

PERIODIC DATA:

MAXIMUM = 24 DEG. C, JULY 14, 1966

MINIMUM = 6 DEG. C, JAN. 15, 1963

## WATER TEMPERATURES FROM ONCE DAILY DATA, DEGREES CELSIUS

| YEAR            |          | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------------|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964            | MAXIMUM: | **   | **   | **   | **   | **   | 16   | 21   | 23  | 24   | 21   | **   | **   |
|                 | MEAN:    | **   | **   | **   | **   | **   | 11   | 13   | 14  | 21   | 21   | **   | **   |
|                 | MINIMUM: | **   | **   | **   | **   | **   | 7    | 9    | 10  | 16   | 21   | **   | **   |
| 1967            | MAXIMUM: | **   | 15   | 14   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|                 | MEAN:    | **   | 12   | 13   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
|                 | MINIMUM: | **   | 3    | 12   | **   | **   | **   | **   | **  | **   | **   | **   | **   |
| 1968            | MAXIMUM: | **   | **   | **   | **   | **   | **   | **   | 22  | **   | **   | **   | **   |
|                 | MEAN:    | **   | **   | **   | **   | **   | **   | **   | 22  | **   | **   | **   | **   |
|                 | MINIMUM: | **   | **   | **   | **   | **   | **   | **   | 21  | **   | **   | **   | **   |
| 1964-1968       | MAXIMUM: | **   | 15   | 14   | **   | **   | 16   | 21   | 23  | 24   | 21   | **   | **   |
|                 | MEAN:    | **   | 12   | 13   | **   | **   | 11   | 13   | 18  | 21   | 21   | **   | **   |
|                 | MINIMUM: | **   | 3    | 12   | **   | **   | 7    | 9    | 10  | 16   | 21   | **   | **   |
| DAYS OF RECORD: |          | 0    | 12   | 7    | 0    | 0    | 28   | 21   | 17  | 8    | 1    | 0    | 0    |

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR            |          | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------------|----------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1965            | MAXIMUM: | **   | 13   | 13   | 13   | 13   | 17   | 20   | 22  | 23   | 24   | 24   | 25   |
|                 | MEAN:    | **   | 11   | 11   | 9    | 10   | 13   | 13   | 17  | 18   | 20   | 21   | 19   |
|                 | MINIMUM: | **   | 8    | 7    | 6    | 7    | 8    | 8    | 11  | 14   | 16   | 16   | 14   |
| 1966            | MAXIMUM: | 25   | 19   | 11   | 13   | 13   | 17   | 21   | 21  | 24   | 24   | 23   | 22   |
|                 | MEAN:    | 18   | 14   | 8    | 11   | 10   | 12   | 17   | 18  | 20   | 21   | 21   | 19   |
|                 | MINIMUM: | 13   | 9    | 6    | 8    | 7    | 7    | 12   | 14  | 16   | 17   | 18   | 18   |
| 1967            | MAXIMUM: | **   | **   | 13   | 12   | 13   | 14   | 16   | 24  | 23   | 23   | 22   | 21   |
|                 | MEAN:    | **   | **   | 10   | 9    | 11   | 11   | 11   | 17  | 18   | 19   | 19   | 18   |
|                 | MINIMUM: | **   | **   | 6    | 7    | 8    | 7    | 8    | 9   | 13   | 14   | 16   | 16   |
| 1968            | MAXIMUM: | 21   | 18   | 12   | 12   | 17   | 18   | 22   | 22  | 23   | 22   | 22   | 22   |
|                 | MEAN:    | 18   | 16   | 9    | 9    | 13   | 12   | 16   | 17  | 19   | 20   | 20   | 19   |
|                 | MINIMUM: | 15   | 9    | 6    | 6    | 10   | 8    | 11   | 13  | 15   | 17   | 18   | 17   |
| 1965-1968       | MAXIMUM: | 25   | 19   | 13   | 13   | 17   | 18   | 22   | 24  | 24   | 24   | 24   | 25   |
|                 | MEAN:    | 18   | 14   | 10   | 10   | 11   | 12   | 14   | 17  | 19   | 20   | 20   | 19   |
|                 | MINIMUM: | 13   | 8    | 6    | 6    | 7    | 7    | 8    | 9   | 13   | 14   | 16   | 14   |
| DAYS OF RECORD: |          | 62   | 62   | 106  | 123  | 112  | 120  | 108  | 118 | 120  | 84   | 88   | 93   |

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1960-68          | MAXIMUM:        | 21   | 17   | 13   | 14   | 13   | 17   | 20   | 21  | 21   | 24   | 23   | 21   |
|                  | MEAN:           | 19   | 13   | 11   | 10   | 11   | 12   | 17   | 17  | 18   | 19   | 19   | 19   |
|                  | MINIMUM:        | 18   | 9    | 8    | 6    | 8    | 8    | 11   | 13  | 15   | 17   | 18   | 17   |
|                  | DAYS OF RECORD: | 4    | 15   | 18   | 21   | 14   | 11   | 5    | 8   | 7    | 8    | 6    | 4    |



# RUSSIAN RIVER BASIN

USGS: 11-4658. SANTA ROSA CREEK NEAR SANTA ROSA, CALIF.  
DWR: F-9-1205

LOCATION.--LAT 38 27 25, LONG 122 37 50, NE1/4NE1/4 SEC.16, T.7 N, R.7 W,  
IN LOS GUILICOS GRANT, ON LEFT BANK 500 FT DOWNSTREAM FROM HIGHWAY  
BRIDGE, 1,500 FT UPSTREAM FROM UNNAMED TRIBUTARY, AND 4.6 MILES EAST OF  
SANTA ROSA, SONOMA COUNTY.  
ALTITUDE OF GAGE.--319 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--12.5 SQ. MI.  
RECORDS AVAILABLE.--89 PERIODIC OBSERVATIONS FROM AUGUST 1959 THROUGH SEPTEMBER 1968.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--16.9 CFS FOR 8 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 23 DEG. C, AUG. 30, 1966  
MINIMUM = 3 DEG. C, DEC. 30, 1960, JAN. 14, 1963

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-68             |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:            | 19   | 16   | 13   | 14   | 13   | 15   | 16   | 16  | 19   | 20   | 23   | 19   |
| MEAN:               | 14   | 12   | 7    | 8    | 11   | 12   | 12   | 13  | 16   | 17   | 19   | 16   |
| MINIMUM:            | 10   | 9    | 3    | 3    | 8    | 8    | 8    | 11  | 13   | 16   | 17   | 13   |
| DAYS OF RECORD:     | 9    | 9    | 11   | 13   | 6    | 8    | 5    | 4   | 9    | 5    | 5    | 5    |

USGS: 11-4670. RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.  
DWR: F-9-1100

LOCATION.--LAT 38 30 0, LONG 122 56 5, NE1/4 SEC. 35, T.8 N, R.10 W,  
ON LEFT BANK 0.6 MILE DOWNSTREAM FROM HOBSON CREEK AND 3.4 MILES EAST  
OF GUERNEVILLE, SONOMA COUNTY.  
ALTITUDE OF GAGE.--17 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--1,340 SQ. MI.  
RECORDS AVAILABLE.--398 PERIODIC OBSERVATIONS FROM JANUARY 1950 THROUGH SEPTEMBER 1968.  
CONTINUOUS RECORD FROM OCTOBER 1963 THROUGH SEPTEMBER 1968.  
AVERAGE DISCHARGE.--2,243 CFS FOR 28 YEARS OF RECORD.  
REMARKS.--SIGNIFICANT REGULATION OF FLOW BEGAN NOVEMBER 1958.  
EXTREMES.--CONTINUOUS DATA:  
MAXIMUM = 28 DEG. C, JUNE 24, 1964, JUNE 23, 1968  
MINIMUM = 4 DEG. C, DEC. 15, 1967, JAN. 12, 1968  
PERIODIC DATA:  
MAXIMUM = 27 DEG. C, SEP. 9, 1953  
MINIMUM = 4 DEG. C, JAN. 15, 1950, DEC. 15, 1967

## WATER TEMPERATURES FROM THERMOGRAPH DATA, DEGREES CELSIUS

| YEAR            | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1964            |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | **   | **   | **   | 10   | 11   | 13   | 19   | 23  | 28   | 28   | 27   | 23   |
| MEAN:           | **   | **   | **   | 8    | 10   | 11   | 15   | 18  | 22   | 24   | 23   | 20   |
| MINIMUM:        | **   | **   | **   | 8    | 9    | 9    | 10   | 13  | 17   | 22   | 20   | 17   |
| 1965            |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | 21   | 16   | 13   | **   | 12   | 16   | 19   | 22  | 24   | 26   | 26   | 24   |
| MEAN:           | 18   | 13   | 12   | **   | 12   | 14   | 14   | 17  | 20   | 23   | 24   | 20   |
| MINIMUM:        | 16   | 11   | 11   | **   | 11   | 12   | 11   | 13  | 17   | 21   | 22   | 17   |
| 1966            |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | 21   | 17   | 8    | 10   | 12   | 17   | 19   | 22  | 26   | 27   | 26   | 23   |
| MEAN:           | 18   | 13   | 7    | 9    | 9    | 12   | 17   | 18  | 22   | 23   | 23   | 21   |
| MINIMUM:        | 16   | 8    | 6    | 6    | 8    | 8    | 14   | 16  | 17   | 20   | 19   | 18   |
| 1967            |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | 21   | 17   | 13   | 12   | 14   | 14   | 13   | 22  | 26   | 27   | 26   | 23   |
| MEAN:           | 17   | 14   | 12   | 10   | 12   | 12   | 11   | 17  | 20   | 24   | 24   | 22   |
| MINIMUM:        | 14   | 12   | 9    | 8    | 11   | 9    | 10   | 12  | 16   | 22   | 22   | 19   |
| 1968            |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | 21   | 17   | 10   | 11   | 15   | 17   | 21   | 27  | 28   | 28   | 27   | 26   |
| MEAN:           | 18   | 14   | 8    | 8    | 12   | 13   | 17   | 21  | 24   | 24   | 23   | 22   |
| MINIMUM:        | 16   | 11   | 4    | 4    | 8    | 10   | 13   | 17  | 20   | 22   | 20   | 17   |
| 1964-1968       |      |      |      |      |      |      |      |     |      |      |      |      |
| MAXIMUM:        | 21   | 17   | 13   | 12   | 15   | 17   | 21   | 27  | 28   | 28   | 27   | 26   |
| MEAN:           | 18   | 14   | 10   | 9    | 11   | 12   | 15   | 18  | 22   | 24   | 23   | 21   |
| MINIMUM:        | 14   | 8    | 4    | 4    | 8    | 8    | 10   | 12  | 16   | 20   | 19   | 17   |
| DAYS OF RECORD: | 119  | 120  | 113  | 115  | 116  | 155  | 150  | 155 | 150  | 155  | 155  | 146  |

# RUSSIAN RIVER BASIN

USGS: 11-4670.--Continued

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1950-59             | MAXIMUM:        | 23   | 17   | 12   | 14   | 16   | 15   | 17   | 23  | 25   | 26   | 26   | 27   |
|                     | MEAN:           | 18   | 14   | 10   | 9    | 10   | 12   | 15   | 18  | 21   | 24   | 23   | 22   |
|                     | MINIMUM:        | 14   | 10   | 8    | 4    | 7    | 9    | 13   | 13  | 10   | 21   | 14   | 16   |
|                     | DAYS OF RECORD: | 17   | 13   | 9    | 12   | 13   | 11   | 12   | 15  | 14   | 15   | 16   | 18   |
| 1960-68             | MAXIMUM:        | 21   | 18   | 13   | 12   | 16   | 16   | 19   | 24  | 26   | 25   | 24   | 23   |
|                     | MEAN:           | 18   | 13   | 10   | 9    | 11   | 12   | 16   | 19  | 22   | 23   | 22   | 21   |
|                     | MINIMUM:        | 14   | 9    | 4    | 6    | 6    | 9    | 11   | 14  | 18   | 21   | 20   | 19   |
|                     | DAYS OF RECORD: | 17   | 25   | 17   | 20   | 13   | 30   | 15   | 29  | 28   | 18   | 9    | 12   |

USGS: 11-4672. AUSTIN CREEK NEAR CAZADERO, CALIF.  
DWR: F-9-1010

LOCATION.--LAT 38 30 5, LONG 123 4 5, SW1/4 SEC. 27, T.8 N, R.11 W,  
ON LEFT BANK 0.6 MILE DOWNSTREAM FROM CONFLUENCE OF BIG AUSTIN AND EAST  
AUSTIN CREEKS, 2.3 MILES SOUTHEAST OF CAZADERO, AND 3.4 MILES UPSTREAM  
FROM MOUTH, SONOMA COUNTY.  
ALTITUDE OF GAGE.--38 FT ABOVE MEAN SEA LEVEL.  
DRAINAGE AREA.--63.1 SQ. MI.  
RECORDS AVAILABLE.--67 PERIODIC OBSERVATIONS FROM MAY 1959 THROUGH JULY 1966.  
NO CONTINUOUS RECORDS.  
AVERAGE DISCHARGE.--169 CFS FOR 7 YEARS OF RECORD.  
REMARKS.--REGULATION OF FLOW NOT SIGNIFICANT.  
EXTREMES.--PERIODIC DATA:  
MAXIMUM = 21 DEG. C, AUG. 8, 1961, SEP. 4, 1963  
MINIMUM = 4 DEG. C, JAN. 14, 1963, DEC. 17, 1965

## WATER TEMPERATURES FROM PERIODIC DATA, DEGREES CELSIUS

| PERIOD<br>OF RECORD |                 | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. |
|---------------------|-----------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1959-66             | MAXIMUM:        | 18   | 15   | 13   | 12   | 12   | 12   | 19   | 16  | 19   | 20   | 21   | 21   |
|                     | MEAN:           | 17   | 13   | 9    | 9    | 11   | 10   | 15   | 15  | 18   | 19   | 20   | 20   |
|                     | MINIMUM:        | 14   | 9    | 4    | 4    | 11   | 8    | 11   | 13  | 17   | 18   | 19   | 18   |
|                     | DAYS OF RECORD: | 5    | 9    | 10   | 10   | 2    | 7    | 5    | 5   | 5    | 4    | 2    | 3    |

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