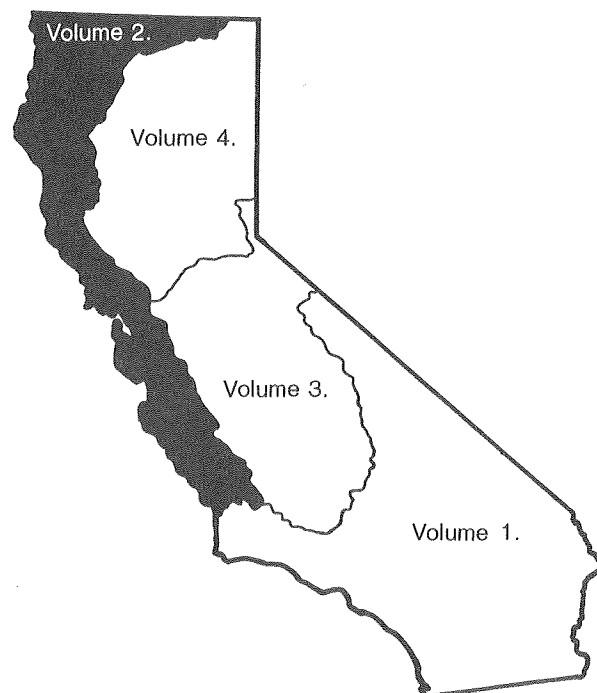


Water Resources Data California Water Year 1986

Volume 2. Pacific Slope Basins from Arroyo Grande
to Oregon State Line except
Central Valley



U.S. GEOLOGICAL SURVEY WATER DATA REPORT CA-86-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

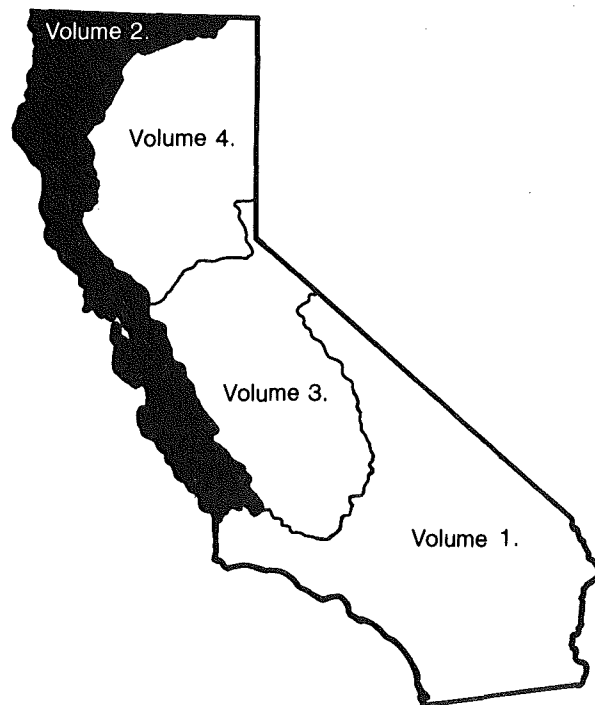
Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



Water Resources Data California Water Year 1986

Volume 2. Pacific Slope Basins from Arroyo Grande
to Oregon State Line except
Central Valley

by S. Anderson, K.L. Markham, W.F. Shelton, L.F. Trujillo, and D.A.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-86-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

DEPARTMENT OF THE INTERIOR
DONALD PAUL HODEL, Secretary
U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

For information on the water program in California write to
District Chief, Water Resources Division
U.S. Geological Survey
Room W-2234, Federal Building
2800 Cottage Way
Sacramento, California 95825

PREFACE

This volume of the annual hydrologic data report of California is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for California are contained in five volumes:

- Volume 1. Southern Gorder to Mono Lake
Basin, and Pacific Slope Basins from Tijuana River to
Santa Maria River
- Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State
Line except Central Valley
- Volume 3. Southern Central Valley Basins and The Great Basin from
Walker River to Truckee River
- Volume 4. Northern Central Valley Basins and The Great Basin from
Honey Lake Basin to Oregon State Line
- Volume 5. Ground-water data for California

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the individuals contributing significantly to the collection, processing, and tabulation of the data are given on page V.

This report was prepared in cooperation with the California Department of Water Resources and with other agencies, under the general supervision of John M. Klein, District Chief, California.

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16. Abstract (Limit: 200 words) Water resources data for the 1986 water year for California consist of records of stage, discharge, and water quality of streams; stage and contents in lakes and reservoirs; and water levels and water quality in wells. Volume 2 contains discharge records for 132 gaging stations; stage and contents for 11 lakes and reservoirs; and water quality for 32 stations. Also included are 4 partial-record stations and 24 water-quality partial-record stations. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in California.			
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CONTENTS

Preface.....	Page III
List of surface-water and water-quality stations, in downstream order, for which records are published.....	VIII
Introduction.....	1
Cooperation.....	2
Summary of hydrologic conditions.....	2
Surface water.....	2
Water quality.....	5
Sediment.....	5
Special networks and programs.....	5
Explanation of the records.....	7
Station identification numbers.....	7
Downstream order system.....	7
Latitude-longitude system.....	7
Records of stage and water discharge.....	8
Data collection and computation.....	8
Data presentation.....	9
Identifying estimated daily discharge.....	10
Accuracy of the records.....	10
Other records available.....	11
Records of surface-water quality.....	11
Classification of records.....	11
Arrangement of records.....	11
Onsite measurements and sample collection.....	11
Water temperature.....	12
Sediment.....	12
Cross-section data.....	12
Laboratory measurements.....	12
Data presentation.....	13
Remark codes.....	13
Access to WATSTORE data.....	14
Definition of terms.....	14
Publications on Techniques of Water-Resources Investigations.....	21
Discontinued gaging stations.....	23
Gaging station and water-quality records.....	43
Discharge at partial-record stations and miscellaneous sites.....	312
Analyses of samples collected at water-quality partial-record stations.....	313
Index.....	369

ILLUSTRATIONS

Figure 1. Map of California showing runoff, in percent of median, for the 1986 water year.....	Page 3
2. Graph showing comparison of discharge during water year 1986 with long-term median discharge at four representative gaging stations.....	4
3. Graph showing comparison of monthly mean dissolved-solids concentration during water year 1986 with long-term dissolved-solids concentration of two selected stations.....	6
4. System for numbering miscellaneous sites (latitude and longitude).....	7
5-21. Maps showing location of discharge and water-quality stations:	
5. Alameda County.....	25
6. Contra Costa County.....	26
7. Del Norte County.....	27
8. Humboldt County.....	28
9. Lake County.....	29
10. Marin County.....	30
11. Mendocino County.....	31
12. Monterey County.....	32
13. Napa County.....	33
14. San Benito County.....	34
15. San Luis Obispo County.....	35
16. San Mateo County.....	36
17. Santa Clara County.....	37
18. Santa Cruz County.....	38
19. Siskiyou County.....	39
20. Sonoma County.....	40
21. Trinity County.....	41
22. Schematic diagram showing diversions and storage in Klamath River and Trinity River basins.....	273

SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station name designate type of data: (d), discharge;
(l), lake contents; (c), chemical; (b), biological; (p), precipitation;
(t), water temperature; and (s), sediment]

	Page
<u>PACIFIC SLOPE BASINS IN CALIFORNIA</u>	
<u>ARROYO GRANDE BASIN</u>	
Arroyo Grande above Phoenix Creek, near Arroyo Grande (d).....	43
Lopez Creek near Arroyo Grande (d).....	44
Arroyo Grande at Arroyo Grande (d).....	45
<u>BIG SUR RIVER BASIN</u>	
Big Sur River near Big Sur (d).....	46
<u>CARMEL RIVER BASIN</u>	
Carmel River at Robles Del Rio (d).....	47
Carmel River near Carmel (d).....	48
<u>SALINAS RIVER BASIN</u>	
Santa Margarita Lake near Pozo (l).....	49
Salinas River below Salinas Dam, near Pozo (d).....	50
Jack Creek:	
Santa Rita Creek near Templeton (d).....	51
Salinas River at Paso Robles (d).....	52
Estrella River near Estrella (d).....	53
Nacimiento River below Sapaque Creek, near Bryson (ds).....	54
Nacimiento River below Nacimiento Dam, near Bradley (d).....	57
San Antonio River near Lockwood (ds).....	58
Salinas River near Bradley (d).....	61
San Lorenzo Creek below Bitterwater Creek, near King City (d).....	62
Salinas River at Soledad (d).....	63
Arroyo Seco near Greenfield (d).....	64
Arroyo Seco near Soledad (d).....	65
Salinas River near Chualar (dcs).....	66
Salinas River near Spreckels (ds).....	70
El Toro Creek near Spreckels (d).....	72
<u>TEMBLADERO SLOUGH BASIN</u>	
Reclamation Ditch:	
Gabilan Creek near Salinas (d).....	73
Reclamation Ditch near Salinas (d).....	74
<u>PAJARO RIVER BASIN</u>	
Pajaro River:	
Carnadero Creek:	
Uvas Creek near Gilroy (d).....	75
San Benito River near Willow Creek School (d).....	76
San Benito River at State Highway 156, near Hollister (d).....	77
Pajaro River at Chittenden (dcs).....	78
Corralitos Creek at Freedom (d).....	81
<u>SOQUEL CREEK BASIN</u>	
Soquel Creek at Soquel (d).....	82
<u>SAN LORENZO RIVER BASIN</u>	
San Lorenzo River near Boulder Creek (d).....	83
Bear Creek at Boulder Creek (d).....	84
Boulder Creek at Boulder Creek (d).....	85
Zayante Creek at Zayante (d).....	86
San Lorenzo River at Big Trees (ds).....	87
Carbonera Creek at Scott's Valley (d).....	90
<u>PESCADERO CREEK BASIN</u>	
Pescadero Creek near Pescadero (ds).....	91
<u>SAN GREGORIO CREEK BASIN</u>	
San Gregorio Creek at San Gregorio (ds).....	95
<u>PILARCITOS CREEK BASIN</u>	
Pilarcitos Creek at Half Moon Bay (d).....	99
<u>COLMA CREEK BASIN</u>	
Colma Creek at South San Francisco (d).....	100
<u>REDWOOD CREEK BASIN</u>	
Redwood Creek at Redwood City (d).....	101
<u>SAN FRANCISQUITO CREEK BASIN</u>	
San Francisquito Creek at Stanford University (dp).....	102
<u>MATADERO CREEK BASIN</u>	
Matadero Creek at Palo Alto (d).....	103
<u>PERMANENTE CREEK BASIN</u>	
Permanente Creek near Monta Vista (dts).....	104
West Fork Permanente Creek near Monta Vista (dts).....	109
<u>GUADALUPE RIVER BASIN</u>	
Reservoirs in Guadalupe River basin (cb).....	114
Guadalupe River at San Jose (dcs).....	133
Saratoga Creek at Saratoga (d).....	137

SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

IX

Page

PACIFIC SLOPE BASINS IN CALIFORNIA

COYOTE CREEK BASIN	
Coyote Creek near Madrone (d).....	138
Upper Penitencia Creek at San Jose (d).....	139
ALAMEDA CREEK BASIN	
Alameda Creek:	
Arroyo de la Laguna:	
Arroyo Mocho near Livermore (d).....	140
Arroyo Mocho at Livermore (d).....	141
Arroyo Las Positas:	
Arroyo Las Positas at Livermore (d).....	142
Arroyo Mocho near Pleasanton (d).....	143
Arroyo Valle below Lang Canyon, near Livermore (d).....	144
Arroyo Valle near Livermore (d).....	145
Arroyo Valle at Pleasanton (d).....	146
Vallecitos Creek at Sunol (c).....	147
Alameda Creek near Niles (dc).....	149
Dry Creek at Union City (d).....	152
Patterson Creek at Union City (d).....	153
SAN LORENZO CREEK BASIN	
San Lorenzo Creek above Don Castro Reservoir, near Castro Valley (dts).....	154
Crow Creek:	
Cull Creek above Cull Creek Reservoir, near Castro Valley (dts).....	159
CASTRO CREEK BASIN	
Castro Creek:	
Castro Valley Creek at Hayward (d).....	164
Wildcat Creek at Vale Road, at Richmond (d).....	165
RHEEM CREEK BASIN	
Rheem Creek at San Pablo (d).....	166
PACHECO CREEK BASIN	
Walnut Creek (head of Pacheco Creek):	
San Ramon Creek at San Ramon (d).....	167
San Ramon Creek at Walnut Creek (d).....	168
Walnut Creek at Concord (d).....	169
Pine Creek:	
Little Pine Creek near Alamo (d).....	170
NAPA RIVER BASIN	
Napa River near St. Helena (d).....	171
Napa River near Napa (dsc).....	172
NOVATO CREEK BASIN	
Novato Creek at Novato (d).....	175
CORTE MADERA CREEK BASIN	
Corte Madera Creek at Ross (d).....	176
ARROYO CORTE MADERA DEL PRESIDIO BASIN	
Arroyo Corte Madera del Presidio at Mill Valley (d).....	177
LAGUNITAS CREEK BASIN	
Lagunitas Creek at Samuel P. Taylor State Park (d).....	178
Lagunitas Creek near Point Reyes Station (d).....	179
WALKER CREEK BASIN	
Walker Creek near Marshall (d).....	180
RUSSIAN RIVER BASIN	
Russian River near Ukiah (d).....	181
East Fork Russian River near Calpella (d).....	182
Lake Mendocino near Ukiah (l).....	183
East Fork Russian River near Ukiah (dt).....	184
Russian River near Hopland (d).....	187
Russian River near Cloverdale (d).....	188
Big Sulphur Creek at Geysers Resort, near Cloverdale (d).....	189
Russian River near Healdsburg (dt).....	190
Lake Sonoma near Geyserville (l).....	193
Dry Creek below Warm Springs Dam, near Geyserville (dt).....	194
Pena Creek near Geyserville (dts).....	197
Dry Creek near Geyserville (dts).....	203
Dry Creek near mouth, near Healdsburg (d).....	210
Santa Rosa Creek:	
Laguna de Santa Rosa near Graton (l).....	211
Russian River near Guerneville (dcts).....	212
NAVARRO RIVER BASIN	
Navarro River near Navarro (d).....	221
NOYO RIVER BASIN	
Noyo River near Fort Bragg (d).....	222
MATTOLE RIVER BASIN	
Mattole River near Petrolia (d).....	223

SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

	Page
<u>PACIFIC SLOPE BASINS IN CALIFORNIA</u> --Continued	
<u>EEL RIVER BASIN</u>	
Lake Pillsbury near Potter Valley (l).....	224
Eel River below Scott Dam, near Potter Valley (d).....	226
Potter Valley powerhouse intake near Potter Valley (d).....	228
Eel River at Van Arsdale Dam, near Potter Valley (d).....	230
Eel River near Dos Rios (d).....	232
Outlet Creek near Longvale (d).....	233
Middle Fork Eel River near Dos Rios (d).....	234
Eel River at Fort Seward (d).....	235
South Fork Eel River:	
Elder Creek near Branscomb (dcps).....	236
South Fork Eel River at Leggett (d).....	239
South Fork Eel River near Miranda (d).....	240
Bull Creek near Weott (d).....	241
Eel River at Scotia (dcs).....	242
Van Duzen River near Bridgeville (d).....	246
<u>MAD RIVER BASIN</u>	
Mad River above Ruth Reservoir, near Forest Glen (d).....	247
Ruth Reservoir near Forest Glen (l).....	248
Mad River below Ruth Reservoir, near Forest Glen (d).....	249
Mad River near Forest Glen (d).....	250
Mad River near Arcata (d).....	251
<u>LITTLE RIVER BASIN</u>	
Little River near Trinidad (d).....	252
<u>REDWOOD CREEK BASIN</u>	
Redwood Creek near Blue Lake (dts).....	253
Lacks Creek near Orick (ds).....	258
Redwood Creek above Panther Creek, near Orick (ds).....	260
Panther Creek near Orick (ds).....	262
Coyote Creek near Orick (ds).....	264
Little Lost Man Creek at Site No. 2, near Orick (ds).....	266
Redwood Creek at Orick (dts).....	268
<u>KLAMATH RIVER BASIN</u>	
Reservoirs in Klamath River basin (l).....	274
Klamath River below Iron Gate Dam (d).....	275
Shasta River near Yreka (d).....	276
Scott River near Fort Jones (d).....	277
Klamath River near Seiad Valley (d).....	278
Indian Creek near Happy Camp (d).....	279
Salmon River at Somes Bar (d).....	280
Klamath River at Orleans (d).....	281
Trinity River above Coffee Creek, near Trinity Center (d).....	282
Clair Engle Lake near Lewiston (l).....	283
Judge Francis Carr powerplant near French Gulch (d).....	284
Trinity River at Lewiston (d).....	285
Grass Valley Creek at Fawn Lodge, near Lewiston (dts).....	286
Trinity River below Limekiln Gulch, near Douglas City (dts).....	294
Trinity River near Burnt Ranch (d).....	300
South Fork Trinity River below Hyampom (d).....	301
Trinity River at Hoopa (d).....	302
Supply Creek at Hoopa (d).....	303
Klamath River near Klamath (dcs).....	304
<u>SMITH RIVER BASIN</u>	
Smith River near Crescent City (dcs).....	308

WATER RESOURCES DATA -- CALIFORNIA, WATER YEAR 1986

VOLUME 2--PACIFIC SLOPE BASINS FROM ARROYO GRANDE

TO OREGON STATE LINE EXCEPT CENTRAL VALLEY

By S. Anderson, K.L. Markham, W.F. Shelton, L.F. Trujillo, and D.A. Grillo

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of California each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled "Water Resources Data - California."

This report includes records on surface water in the State. Specifically, it contains: (1) Discharge records for 132 streamflow-gaging stations and 4 crest-stage partial-record streamflow stations; (2) stage and contents records for 11 lakes and reservoirs; and (3) water-quality records for 32 streamflow-gaging stations. Records included for stream stages are only a small fraction of those obtained during the water year.

This series of annual reports for California began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format changed to one volume, including data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1985 water year, a separate volume for ground-water levels and quality was published for California.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for California were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 10 and 11." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." These Water-Supply Papers may be consulted in public libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 810, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CA-86-3." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (916) 978-4668.

COOPERATION

The U.S. Geological Survey and organizations of the State of California have had cooperative agreements for the systematic collection of records since 1903. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Alameda County Flood Control and Water Conservation District, Robert Bitten, Director of Public Works.
 Alameda County Flood Control and Water Conservation District, Zone 7, Mun J. Mar, General Manager.
 Alameda County Water District, Roy E. Cloverdale, General Manager.
 California Department of Water Resources, David N. Kennedy, Director.
 Contra Costa County Flood Control and Water Conservation District, Milton Kubicek, Deputy Director.
 Humboldt Bay Municipal Water District, Arthur Bolli, General Manager.
 Marin County Department of Public Works, Thomas F. Campanella, Director.
 Marin Municipal Water District, Richard W. Rogers, General Manager.
 Monterey County Flood Control and Water Conservation District, William Hurst, General Manager-Acting District Engineer.
 San Benito County Water Conservation and Flood Control District, Charles Overflet, President-District Secretary.
 San Francisco Water Department, Eugene Kelleher, General Manager.
 San Luis Obispo County Engineering Department, George Protopapas, County Engineer.
 San Mateo County, Edward Barnes, Senior Civil Engineer.
 Santa Clara Valley Water District, John T. O'Halloran, General Manager.
 Santa Cruz County Flood Control and Water Conservation District, Kris Schenk, Director.
 Scotts Valley Water District, John McGuire, General Manager.
 Sonoma County Planning Department, John Dugan, Director.
 Sonoma County Water Agency, Robert F. Beach, General Manager.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; Bureau of Indian Affairs and National Park Service, U.S. Department of the Interior.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Runoff during the 1986 water year in the area covered by this volume was about 250 percent of the 1951-80 median of mean annual flow (based on ten representative streamflow records), and ranged from 256 percent of median at Arroyo Seco near Soledad, to 103 percent at Salmon River at Somes Bar. Runoff, in percent of median, at selected sites in California is shown in figure 1. In figure 2, the monthly runoff during the 1986 water year at four index stations is compared to the 1951-80 maximum, minimum, and median monthly runoff. Maximum instantaneous discharges at 12 gaging stations exceeded existing peaks of record in the area covered by this volume; peak discharges for those gages are shown below:

Station No.	Station name	Years of record	Previous peak (ft ³ /s)	1986 peak (ft ³ /s)	Unit discharge [(ft ³ /s)/mi ²]
11154200	Uvas Creek near Gilroy	27	9,490	14,200	199
11456000	Napa River near St. Helena	50	12,600	16,200	208
11458000	Napa River near Napa	30	20,900	37,100	170
11467000	Russian River near Guerneville	47	93,400	104,000	78
11472150	Eel River near Dos Rios	20	65,500	70,100	133
11473900	Middle Fork Eel River near Dos Rios	21	90,500	93,100	125
11480390	Mad River above Ruth Reservoir, near Forest Glen	7	11,300	15,000	160
11480410	Mad River below Ruth Reservoir, near Forest Glen		3,600	17,800	147
11482110	Lacks Creek near Orick	6	2,300	3,070	181
11482120	Redwood Creek above Panther Creek, near Orick	6	16,500	19,700	131
11482125	Panther Creek near Orick	7	650	839	138
11530020	Supply Creek at Hoopa	5	2,060	2,110	133

The 1986 water year was relatively mild through January, averaging 90 percent of normal precipitation. An unprecedented amount of precipitation fell in most of northern California during the 10-day period ending February 21. The 10-day storm totals, ranging from 10 to 40 inches, represented over 50 percent of the average annual precipitation at many locations. The 1-day maximum precipitation ranged from 2.0 to 9.5 inches.

High precipitation levels, with consequent high streamflows, produced varying degrees of flooding in many areas and filled storage reservoirs to above normal amounts. Severe flooding occurred in the city of Napa on the lower Napa River, and in the town of Guerneville on the lower Russian River. Agricultural lands, roads, bridges, and urban development in many areas were severely damaged or destroyed. Property losses were estimated to be in the hundreds of millions of dollars.

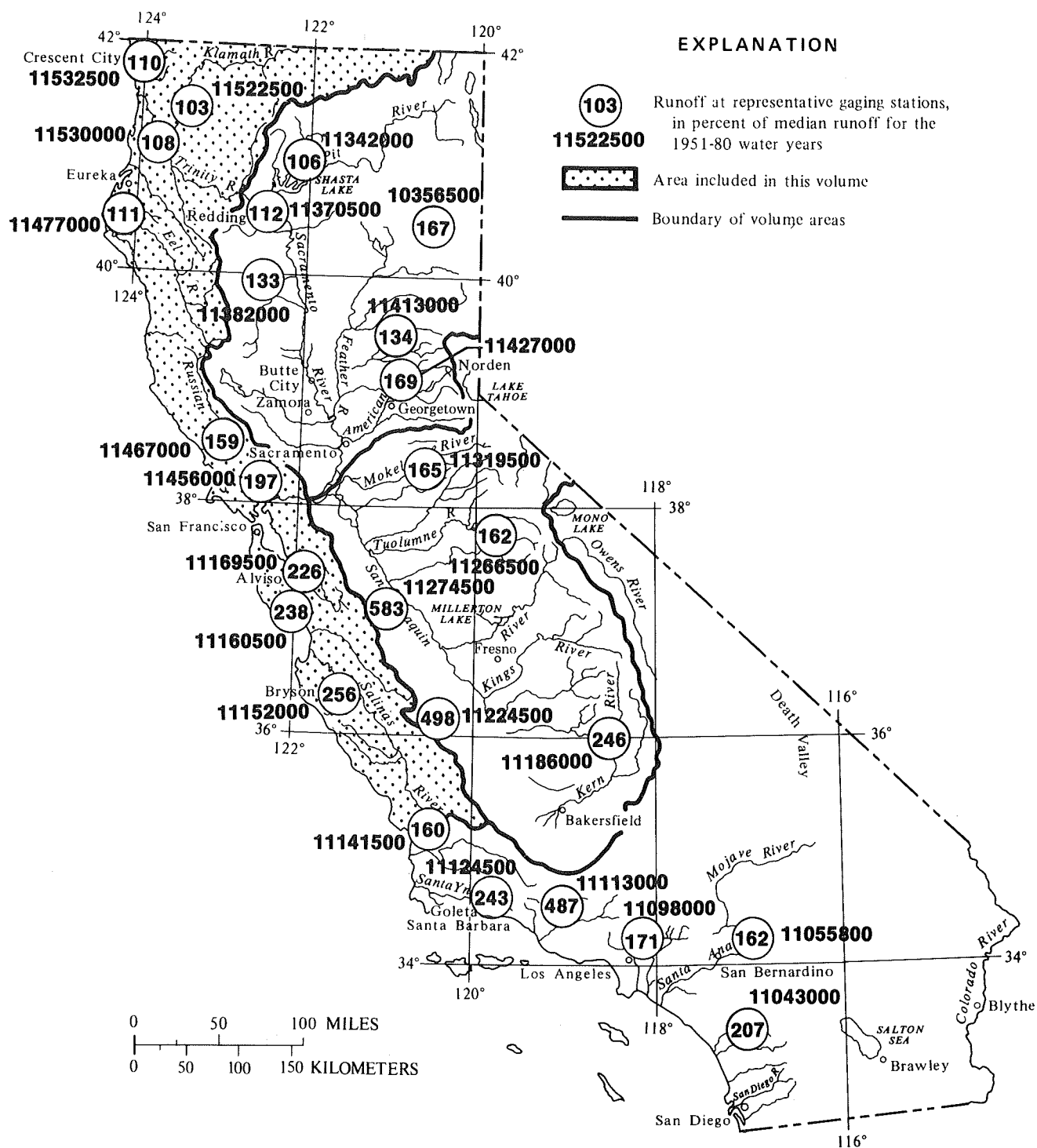


FIGURE 1.—Runoff, in percent of median, for the 1986 water year.

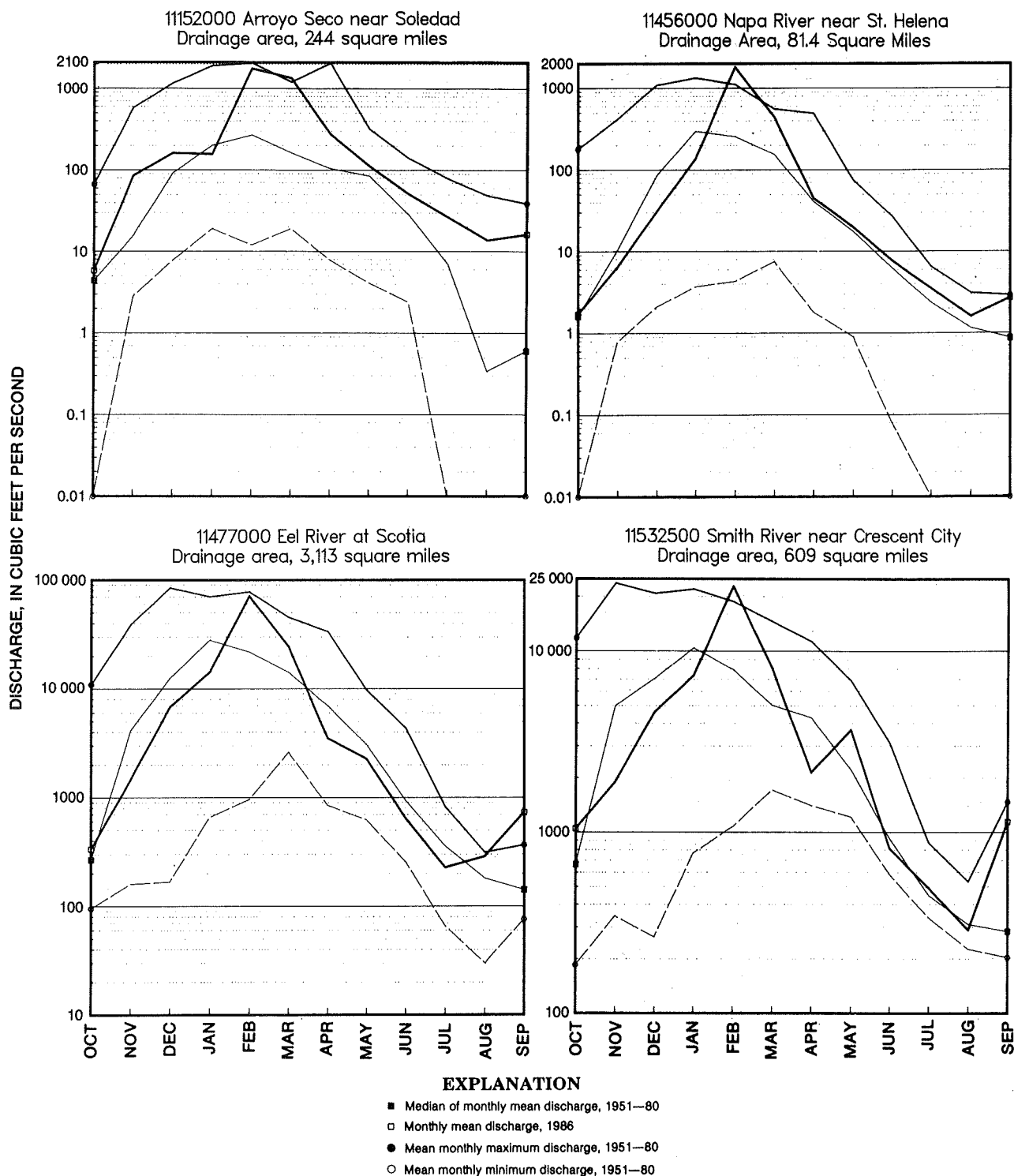


FIGURE 2. — Comparison of discharge during water year 1986 with long-term median discharge at four representative gaging stations.

Water Quality

Water samples collected at seven NASQAN stations and one Hydrologic Benchmark station reported in this volume were analyzed for water-quality constituents during the 1986 water year. Dissolved-solids concentrations varied slightly from the previous year and were largest at Pajaro River near Chittenden, where the median concentration was 749 mg/L. The smallest concentration was in water sampled from the Smith River near Crescent City, where the median concentration was 64 mg/L. The monthly mean dissolved-solids concentrations during water year 1986 is compared with long-term mean dissolved-solids concentration at two selected stations in figure 3.

Concentrations of water-quality constituents were less than maximum levels recommended by the U.S. Environmental Protection Agency (EPA). The largest density of fecal-coliform bacteria was measured in water sampled from the Russian River near Guerneville, 1,700 colonies per 100 milliliter (an increase from a maximum density of 140 colonies per 100 milliliter reported in 1985).

Of the eight water-quality stations sampled as part of the Golden Gate National Recreation Area study, Rodeo Lagoon at Fort Cronkhite had the only water sample that contained a constituent (boron) that exceeded the water-quality criterion recommended by the EPA.

Sediment

Suspended-sediment discharge and concentration were monitored daily at 11 stations and periodically at 27 stations in the area included in this volume. Monthly and annual bedload discharge were estimated for all daily stations. These stations are located as far north as Crescent City and as far south as Bryson. Large variations in precipitation and drainage-basin characteristics result in significant differences in sediment-discharge rates.

Sediment discharge ranged from slightly less than normal in north-coastal areas to significantly more than normal in the San Francisco Bay area. In excess of 70 percent of the annual sediment discharge was transported during storms in February. Mean annual sediment discharge was 83 percent of average for Redwood Creek at Orick (1971-85), 170 percent for Russian River near Guerneville (1970-85), and 130 percent for Cull Creek near Castro Valley (1979-85).

During the 1986 water year, sediment discharge for the 11 daily stations ranged from 1,590 tons per year for West Fork Permanente Creek near Monta Vista (2.98 square miles drainage area) to 2,210,000 tons per year for Russian River near Guerneville (1,338-square miles drainage area). Annual sediment discharge per square mile of drainage area ranged from a minimum of 533 ton/square mile for West Fork Permanente Creek near Monta Vista to a maximum of 13,800 ton/square miles for Permanente Creek near Monta Vista.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide. The data provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting that the data may be used for, (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) to detect changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

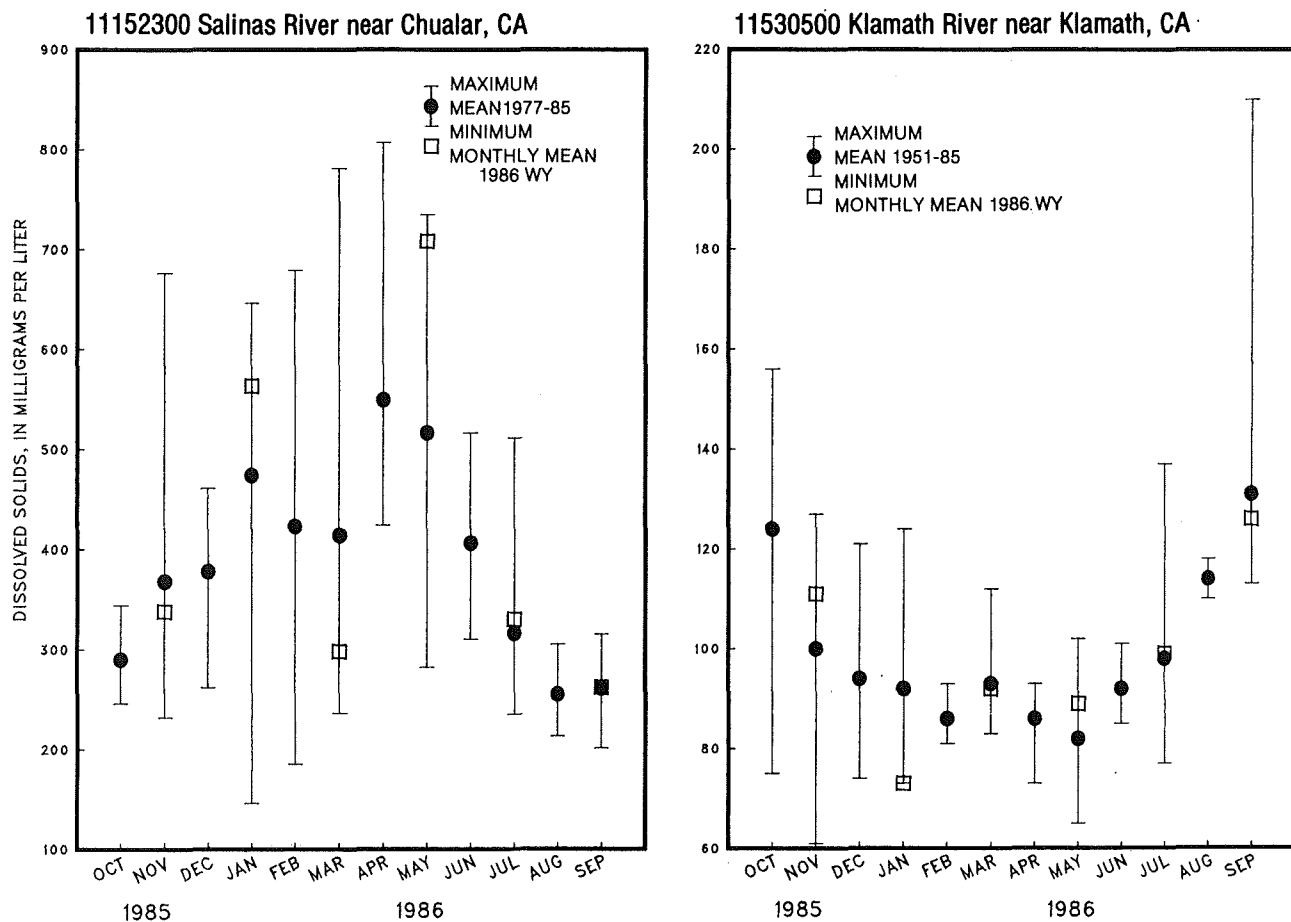


FIGURE 3. — Comparison of monthly mean dissolved-solids concentration during water year 1986 with long-term dissolved-solids concentration of two selected stations.

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 1986 water year that began October 1, 1985, and ended September 30, 1986. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and contents data for lakes and reservoirs, and water-quality data for surface water. The locations of the stations where the data were collected are shown in figures 5 through 25. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each streamsite data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for surface-water stations in California where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 11465350, which appears just to the left of the station name, includes the two-digit part number "11" plus the six-digit downstream-order number "465350." The part number designates the major river basin; for example, part "11" is the Pacific Slope Basins in California.

Latitude-Longitude System

The identification numbers for miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig. 4).

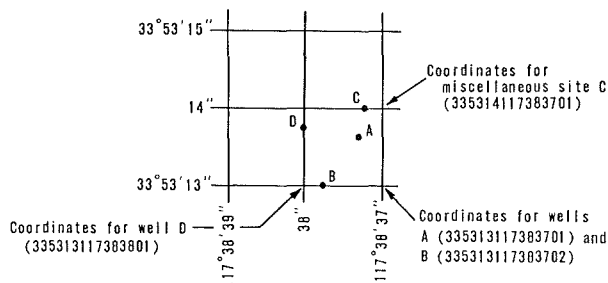


Figure 4.--System for numbering miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake and reservoir contents, similarly, are those for which stage or contents may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown, by county, in figures 5 through 24.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake contents. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in U.S. Geological Survey Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge are prepared for any stage within the range of the measurements. If it is necessary to define extremes of discharge outside the range of current-meter measurements, the curves are extended using (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dam or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes or observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available surveys, curves, or tables defining the relationship of stage and contents. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. When this is done, the contents computed may become increasingly in error as time increases since the last survey. Discharges over lake or reservoir spillways are computed from stage-discharge relationships, in the same manner as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation.

The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see Definition of Terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possible, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were revised after the station was discontinued. If the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton storage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing the table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second (ft^3/s) for values less than $1 \text{ ft}^3/\text{s}$, to the nearest tenth between 1.0 and $10 \text{ ft}^3/\text{s}$, to whole numbers between 10 and $1,000 \text{ ft}^3/\text{s}$, and to three significant figures for more than $1,000 \text{ ft}^3/\text{s}$. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of sites as well as an index of records of discharge collected by other agencies but not published by the U.S. Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge measurement notes, gage-height records, temperature measurements, and rating tables are on file in the California District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 5 through 25.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is the assurance that the data obtained represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, are made onsite when samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures are followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in "Techniques of Water-Resources Investigations," Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4. All these references are listed on p. 22 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the California District office.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative value available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Cross-Section Data

Cross-section surveys of water temperature, pH, specific conductance, dissolved oxygen, and suspended sediment are done at all NASQAN and Hydrologic Bench-mark stations during various seasons and surface-water discharges. Documentation of cross-section variation of water quality is essential in order to determine how many samples in a cross section are necessary to ensure a representative composite sample.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the U.S Geological Survey laboratories in Arvada, Colorado, or Doraville, Georgia. Methods used in analyzing sediment samples and computing sediment records are given in Techniques of Water-Resources Investigations, Book 5, Chapter C1; methods used by the laboratories are given in Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4.

WATER RESOURCES DATA -- CALIFORNIA, WATER YEAR 1986

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and other data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the individual parameters.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions of the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

ACCESS TO WATSTORE DATA

The National WATER Data STORage and RETrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See the table for converting inch-pound units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by a well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease; others perform an essential role in nature in the recycling of materials, for example, decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35 °C. For the membrane filter method these bacteria are defined as the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C ± 0.5 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Fecal-coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. For the membrane filter method they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5 °C ± 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Fecal-streptococcal bacteria are bacteria found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35 °C ± 0.5 °C on KF streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals living in or on the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³) and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism that are counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually in milliliters (mL) or liters (L).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day (cfs.d) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters.

Discharge is the volume of water (or more broadly, total fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate. It is recognized that certain kinds of samples cannot be filtered; to provide for this, procedures that are considered equivalent to filtering through a 0.45-micrometer membrane filter will be identified and announced at a later date.

Dissolved-solids concentration of water is determined either analytically or by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n}{n_i},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the samples are the same; to some positive number, when some or all the organisms in the sample are different.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the Earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water, together with all tributary surface streams and bodies of impounded surface water.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to the National Geodetic Vertical Datum of 1929. This elevation is established by a system of levels from known bench marks or by approximation from topographic maps.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap that is required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_0 e^{-\lambda L},$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This development process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (UG/G, ug/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called Sea Level Datum of 1929 or mean sea level in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting that the data may be used for, (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) to detect changes in trends with time in the pattern occurrence of water-quality characteristics, and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of the habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a five-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024-0.004	Sedimentation
Silt.....	0.004-0.062	Sedimentation
Sand.....	0.062-2.0	Sedimentation or sieve
Gravel.....	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton is the assemblage of micro-organisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, the periphyton also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton are suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton compose the plant part of the plankton. They are usually microscopic, and their movement is subject to water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials into the surrounding water, the phytoplankton have a profound effect on the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are phytoplankton organisms having a blue pigment in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms, chiefly green plants. The rate of primary production is estimated by measuring the amount of carbon assimilated by plants (carbon method) or the amount of oxygen released (oxygen method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment; thus, the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bedload is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bedload is considered to consist of particles in transit within 0.25 ft (0.076 m) of the streambed.

Bedload discharge (tons per day) is the quantity of sediment, as measured by dry weight, that moves past a section as bedload in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Suspended-sediment discharge (tons per day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day by multiplying discharge times milligrams per liter times 0.0027.

Suspended-sediment load (tons per day) is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge or total-sediment load (tons per day) is the sum of suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry mass, that passes a section in a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content in water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic-organism collection and plexiglass strips for periphyton collection.

Surface area of a lake is the area, in square miles or acres, outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter. In localities not covered by topographic maps, the areas are computed from the best maps available. Areas shown are for the lake stage at the time the map was made.

Surficial bed material is the part (upper 0.1 to 0.2 ft or 0.03 to 0.06 m) of the bed material that is sampled by using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment; thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that records water temperature in a digital format on punched paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total load (tons) is the total amount of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the milligrams per liter of the constituent, times the factor 0.0027, times the number of days.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment; thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in the dissolved and suspended phases of the sample. A knowledge of the expected form is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all the constituent in the sample.)

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the Nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90° from the path of incident light source.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1986, is called the "1986 water year."

WDR is used as an abbreviation for "Water-Data Reports" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Building 810, Denver, CO 80225. Prepayment is required. Remittance should be sent by check or money order payable to U.S. Geological Survey, Department of the Interior. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. Water temperature--influential factors, field measurement, and data presentation, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. Application of surface geophysics to ground-water investigations, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. Application of borehole geophysics to water-resources investigations, by W.S. Keys, and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. Measurement of peak discharge by slope-area method, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E.F. Hubbard, F.A. Kilpatrick, L.A. Martens, and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A10. Discharge ratings at gaging stations, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. Measurement of discharge by moving-boat method, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. Use of flumes in measuring discharge, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

- 3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. Computation of fluvial sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. Storage analyses for water supply, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, edited by M.W. Skougstad and others: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for analysis of organic substances in water, by D.F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P.E. Greeson, T.A. Ehlike, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 322 pages.
- 5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman, and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A model for simulation of flow in singular and interconnected channels by R.W. Shaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. Methods of measuring water levels in deep wells, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. Installation and service manual for U.S. Geological Survey manometers, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

DISCONTINUED GAGING STATIONS

The following continuous-record streamflow stations in California have been discontinued as of the 1986 water year. Daily streamflow or stage records were collected and published for the period of record shown for each station.

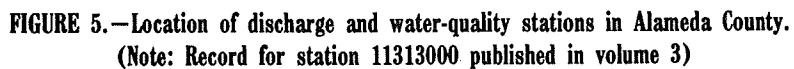
Station No.	Station name	Drainage area (mi ²)	Period of record
11141500	Arroyo Grande at Arroyo Grande	102	1940-86
11144500	Santa Margarita Lake near Pozo	112	1942-86
11144600	Salinas River below Salinas Dam, near Pozo	112	1974-86
11152650	Reclamation Ditch near Salinas	53.2	1971-86
11176090	Arroyo Mocho at Livermore	50.8	1984-86
11176145	Arroyo Las Positas at Livermore	53.3	1981-85
11176200	Arroyo Mocho near Pleasanton	142	1963-85
11176600	Arroyo Valle at Pleasanton	171	1958-85
11460100	Arroyo Corte Madera Del Presidio at Mill Valley	4.69	1965-73 1976-86
11476600	Bull Creek near Weott	28.1	1961-86

DISCONTINUED WATER-QUALITY STATIONS

The following water-quality stations in California have been discontinued as of the 1986 water year. Continuous daily records of water temperature and/or sediment were collected and published for the period of record shown for each station.

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record
11152500	Salinas River near Spreckels	4,156	S	1950-51, 1967-79, 1985
11160500	San Lorenzo River at Big Trees	106	S	1973-82, 1985
11162500	Pescadero Creek near Pescadero	45.9	S	1986
11162570	San Gregorio Creek at San Gregorio	50.9	S	1986
11177200	Vallecitos Creek at Sunol	7.48	S	1975-86

Type of record: S (sediment).



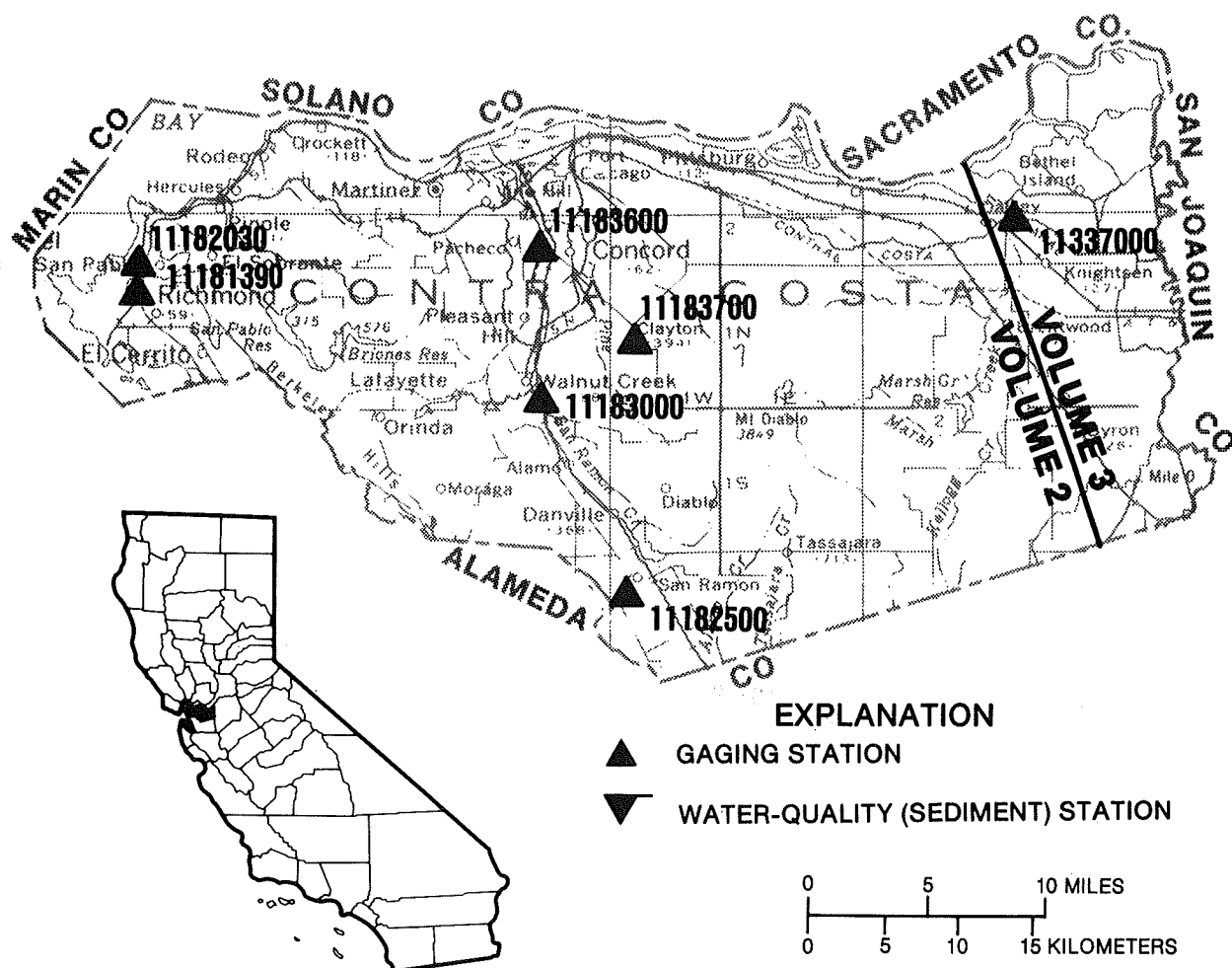


FIGURE 6.—Location of discharge stations in Contra Costa County.
(Note: Record for station 11337000 published in volume 3)

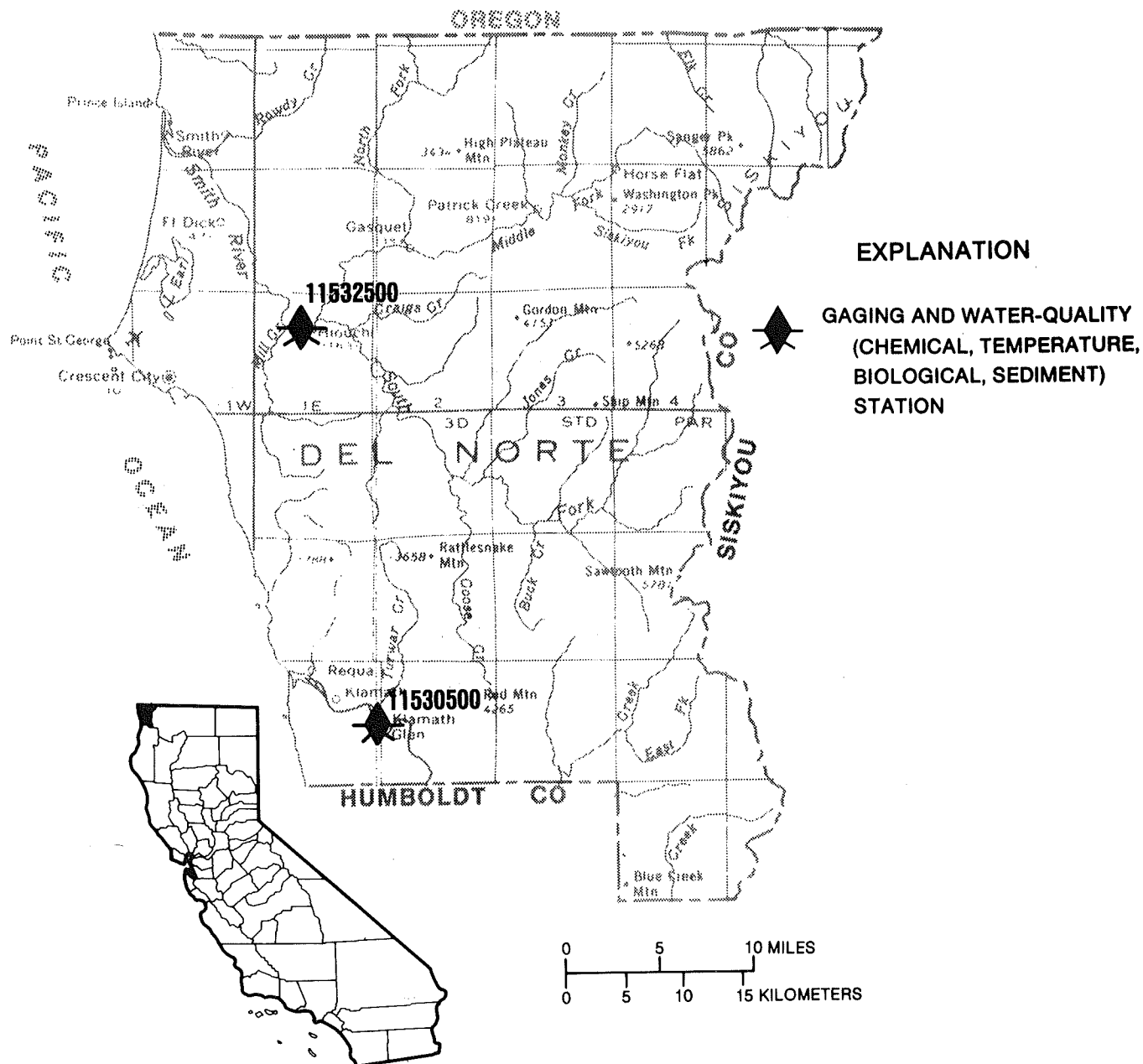


FIGURE 7.—Location of discharge and water-quality stations in Del Norte County.

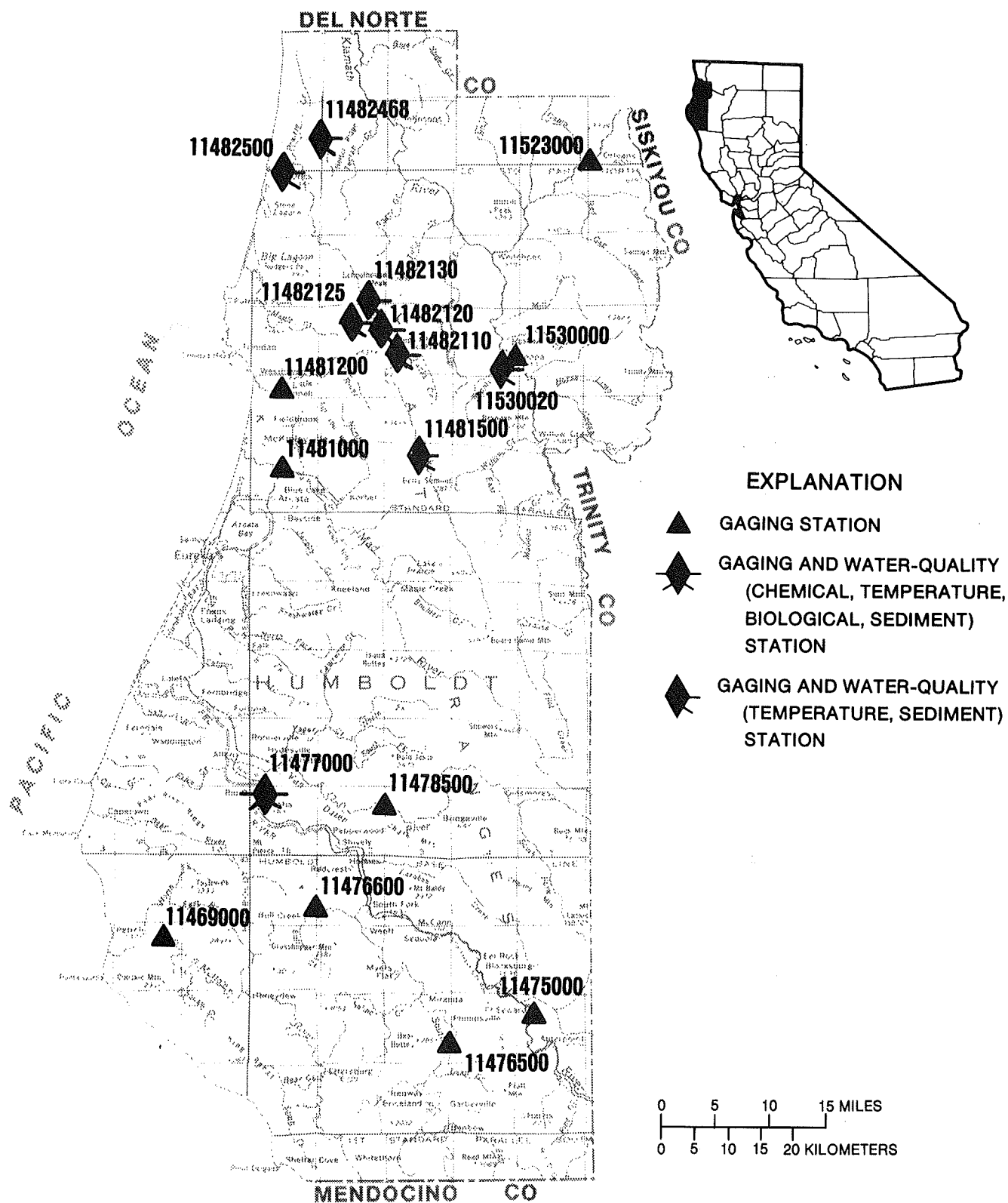
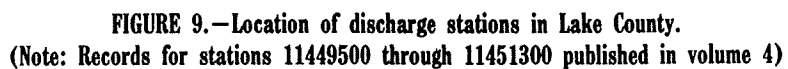


FIGURE 8.—Location of discharge and water-quality stations in Humboldt County.



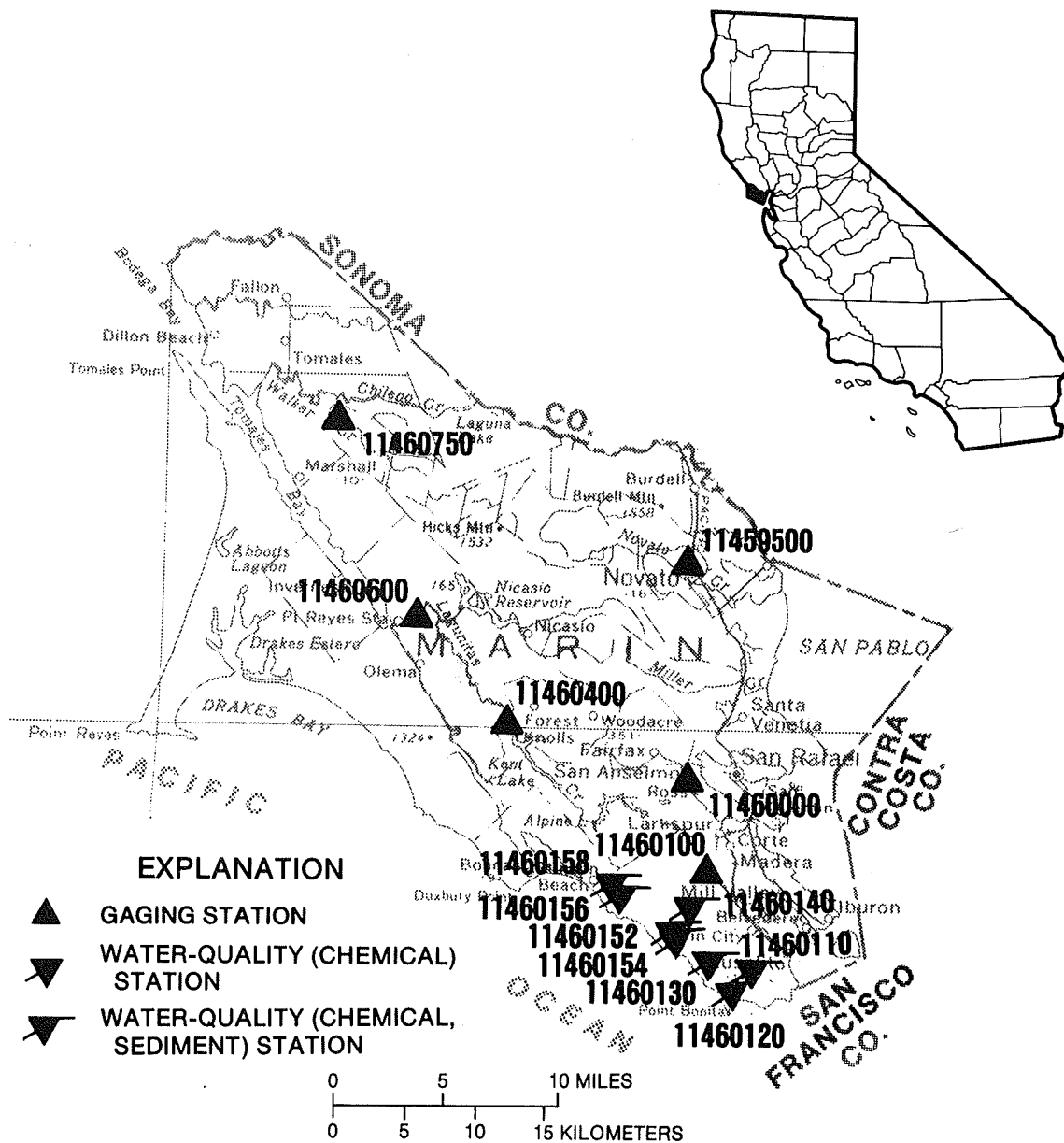


FIGURE 10.—Location of discharge and water-quality stations in Marin County.

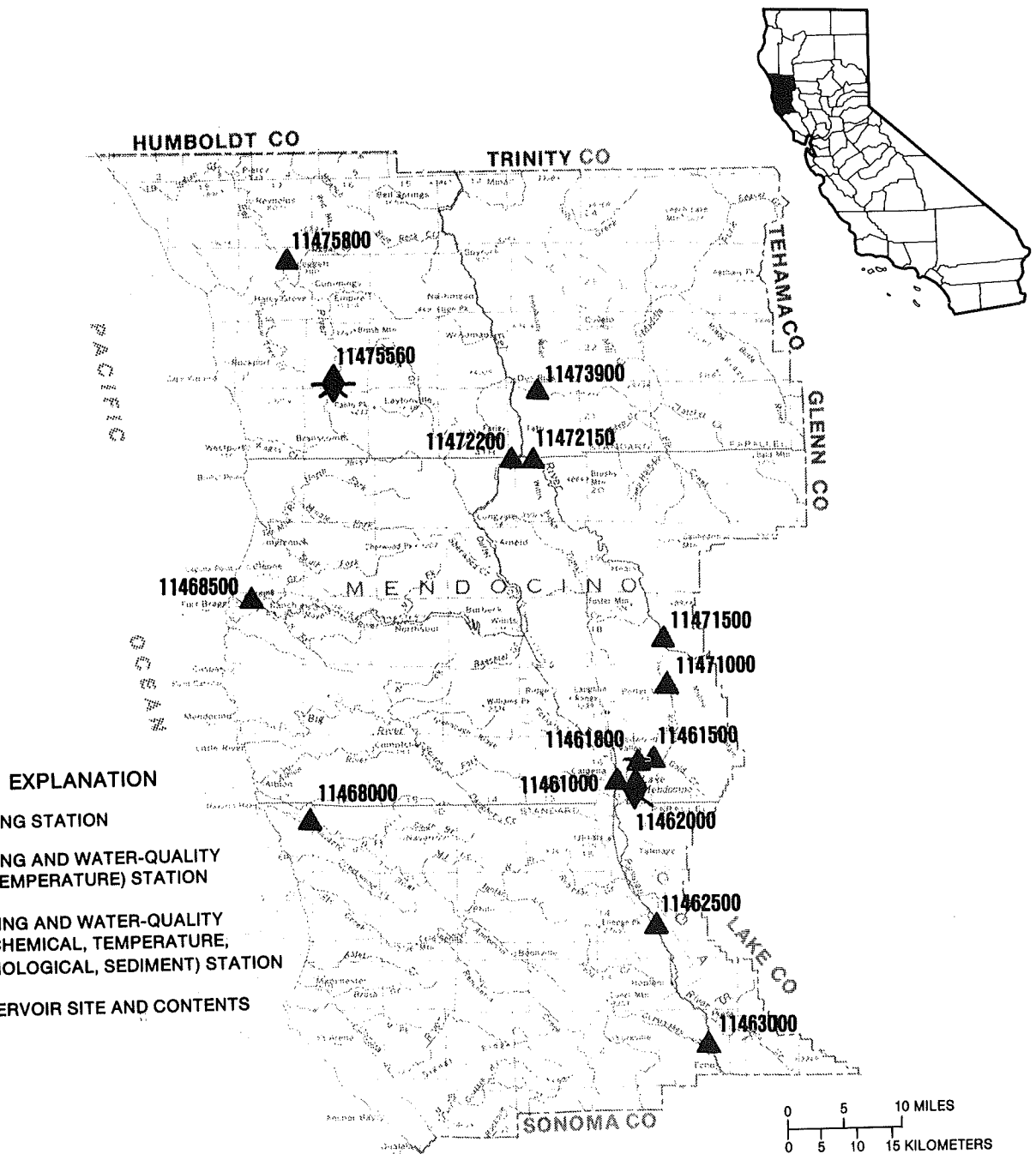


FIGURE 11.—Location of discharge and water-quality stations in Mendocino County.

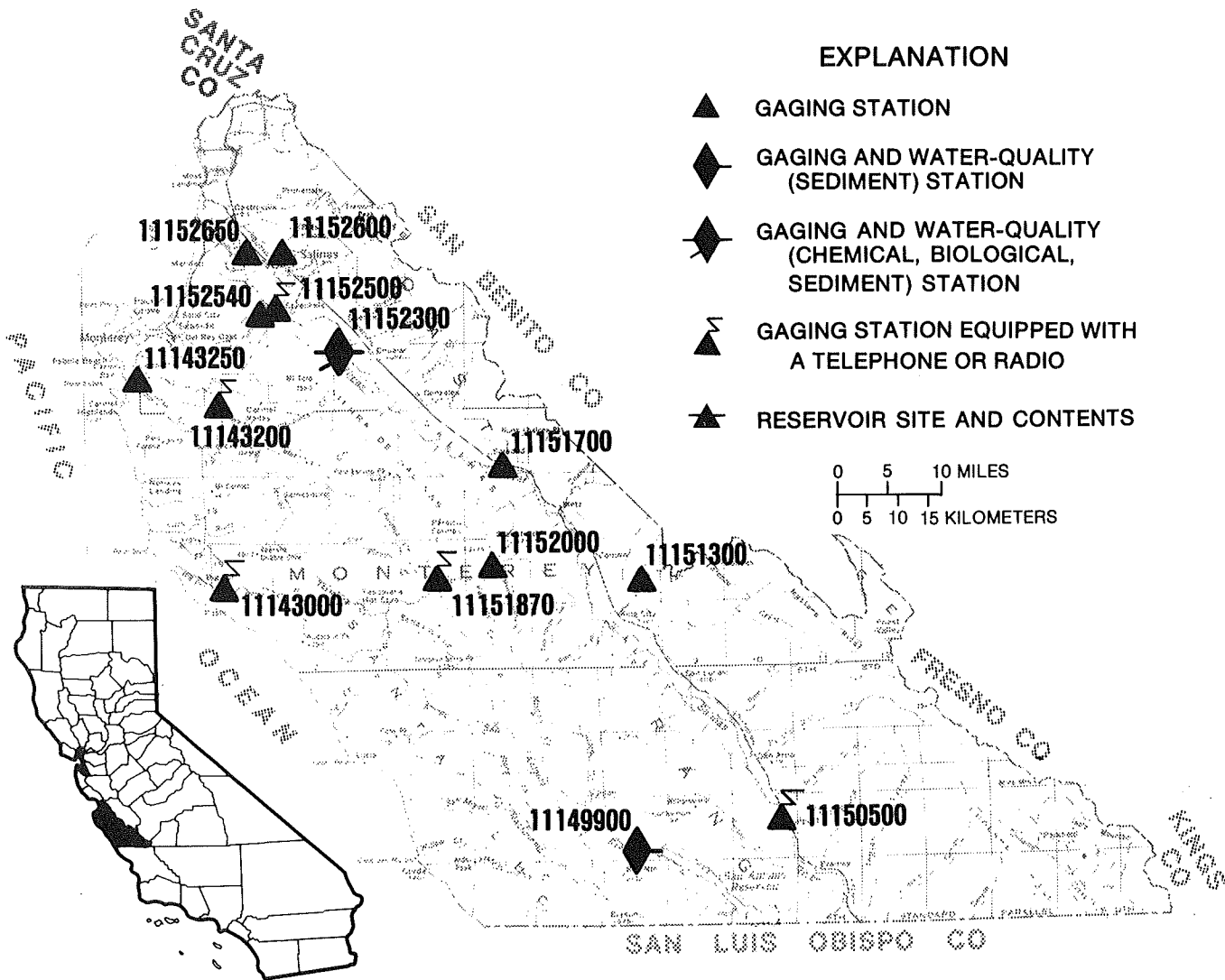


FIGURE 12.—Location of discharge and water-quality stations in Monterey County.

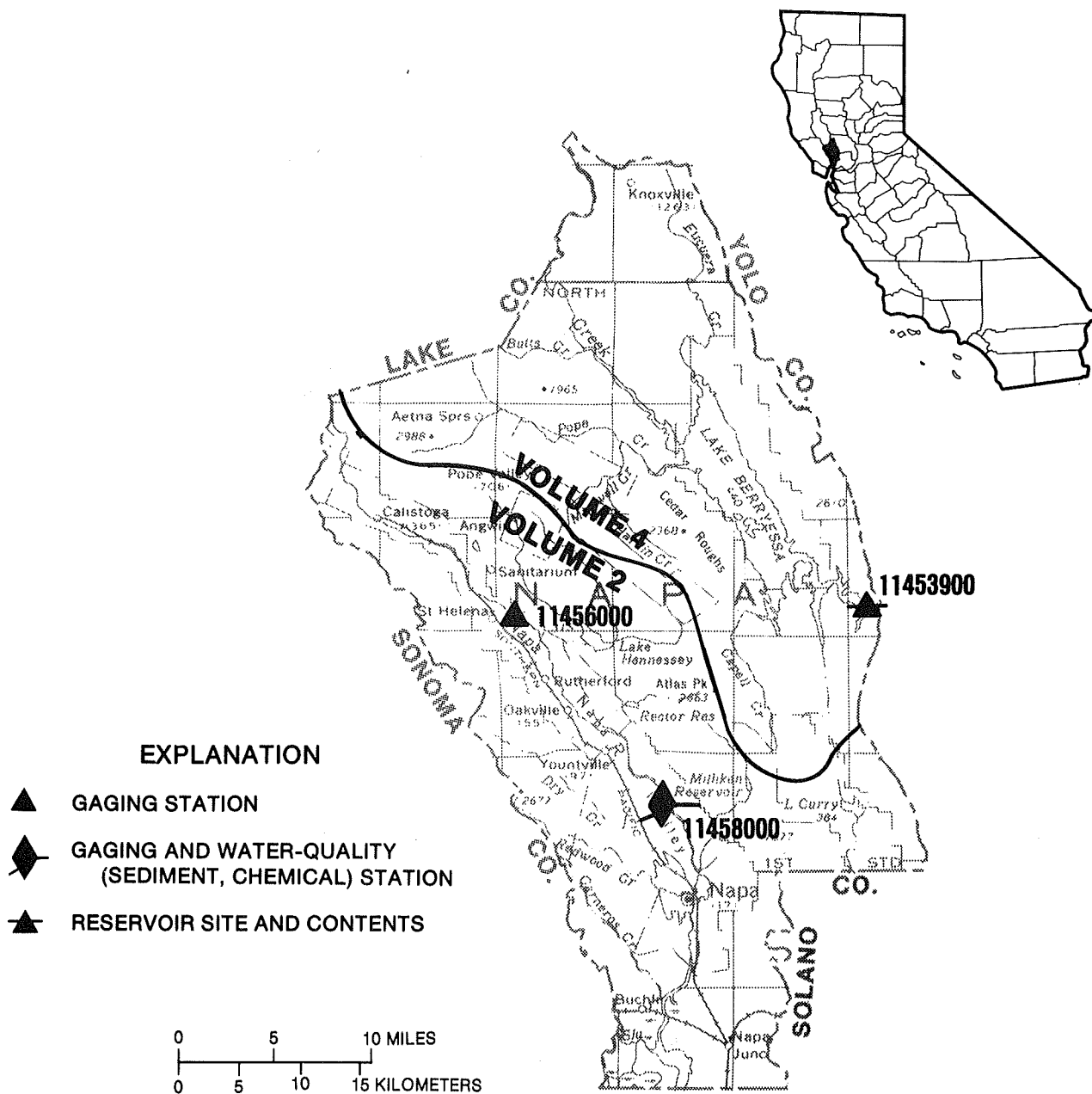


FIGURE 13.—Location of discharge and water-quality stations in Napa County.
(Note: Record for station 11453900 published in volume 4)

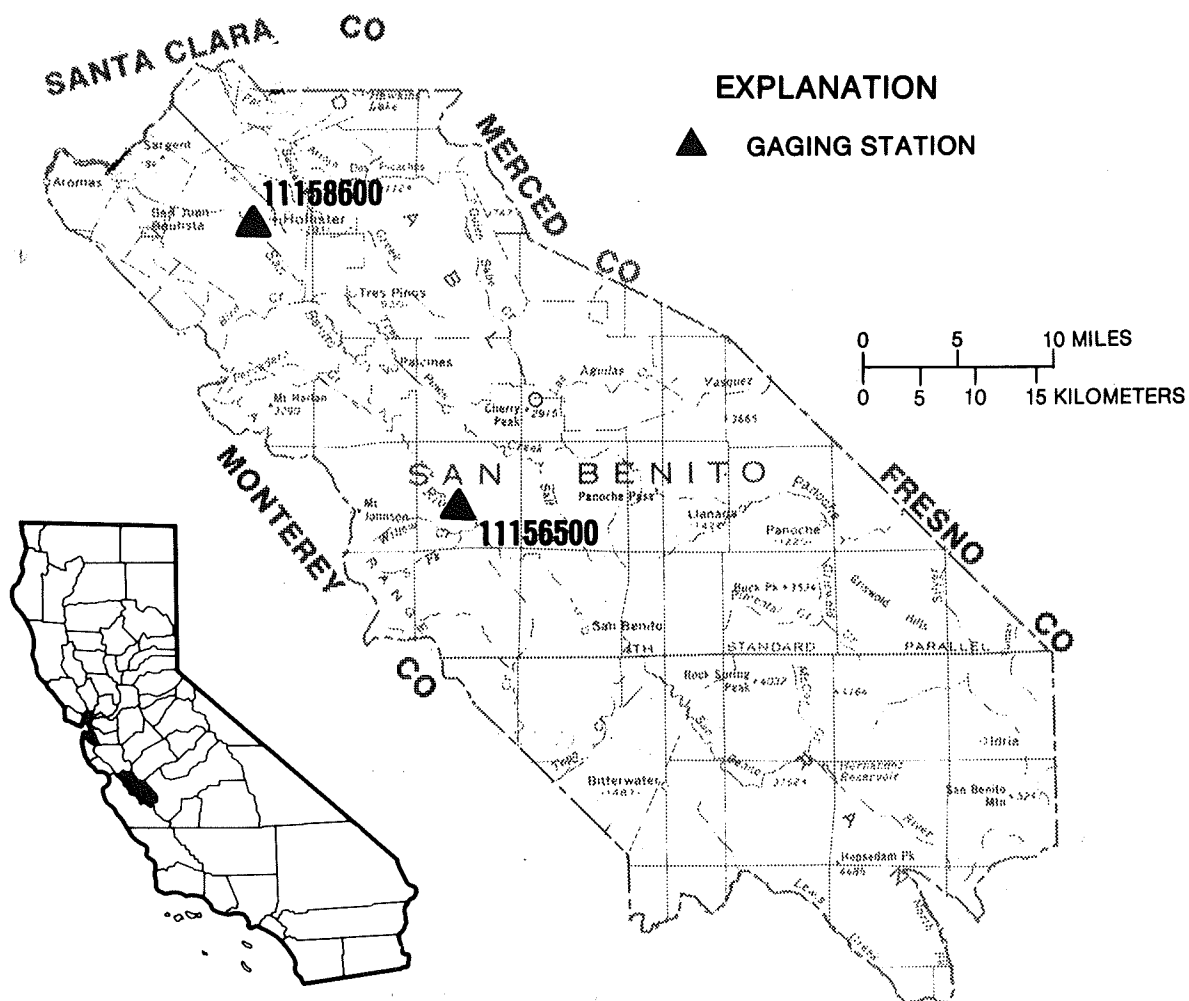


FIGURE 14.—Location of discharge quality stations in San Benito County.

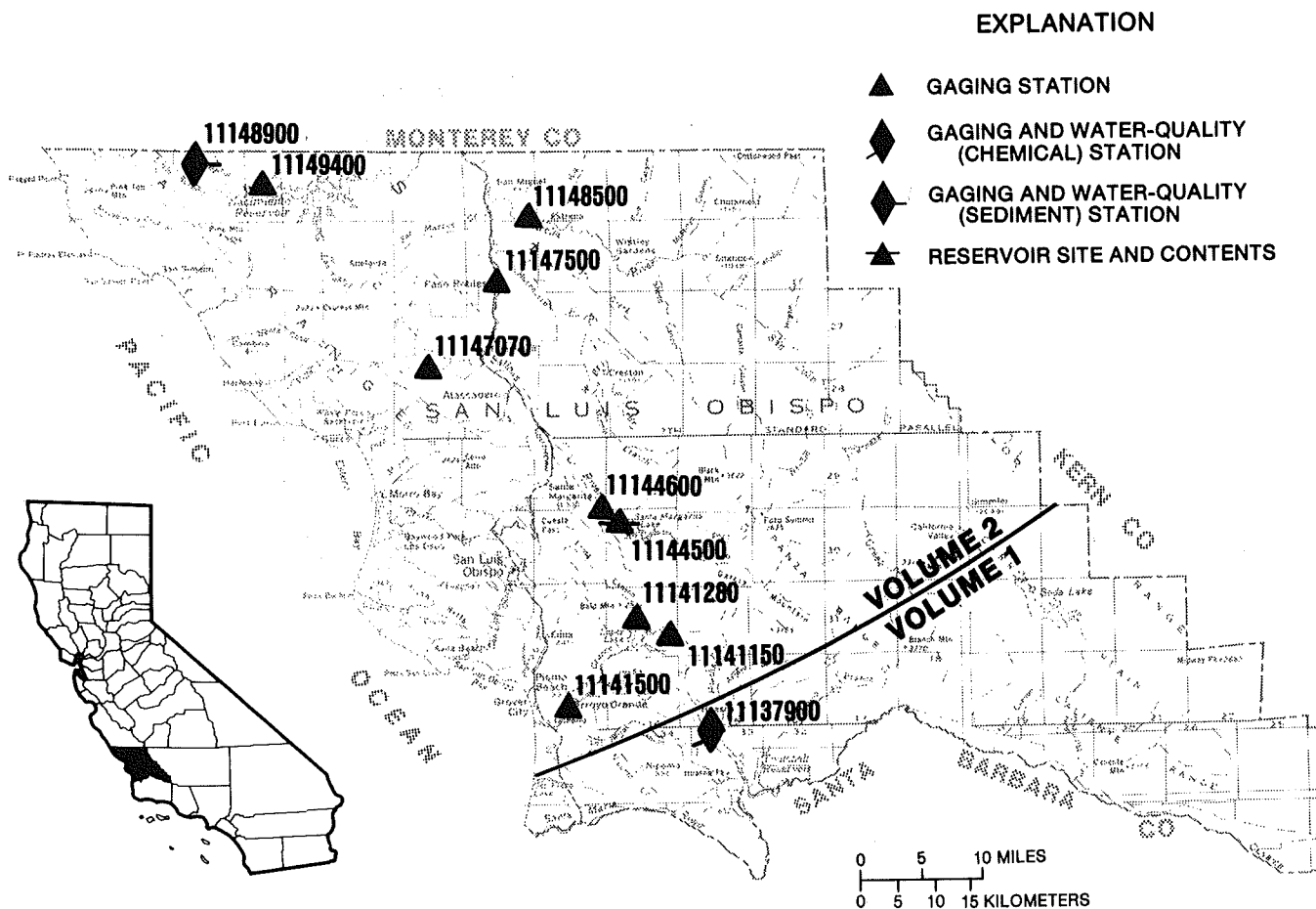


FIGURE 15.—Location of discharge and water-quality stations in San Luis Obispo County.
 (Note: Record for station 11137900 published in volume 1)

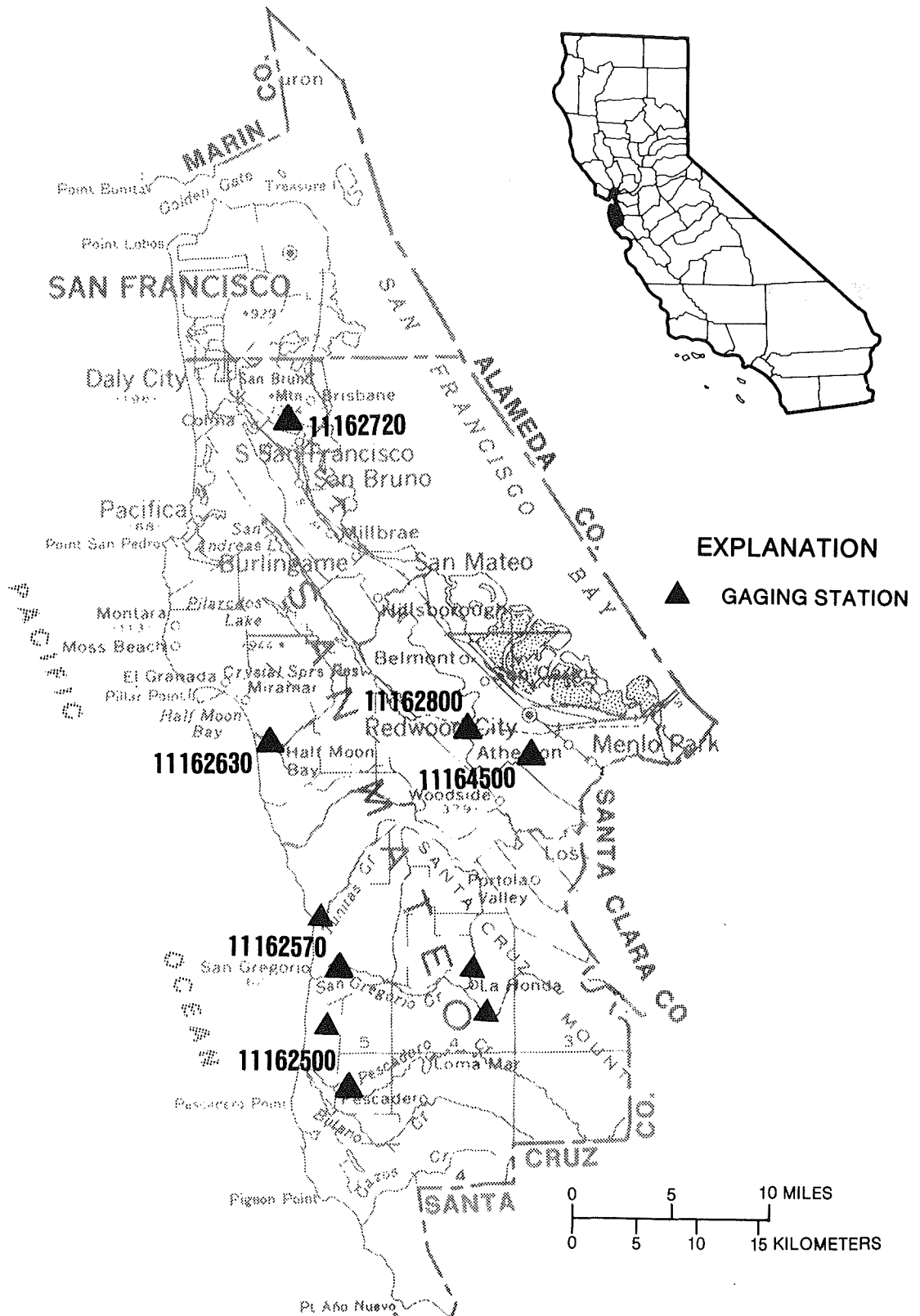


FIGURE 16.—Location of discharge and water-quality stations in San Mateo County.



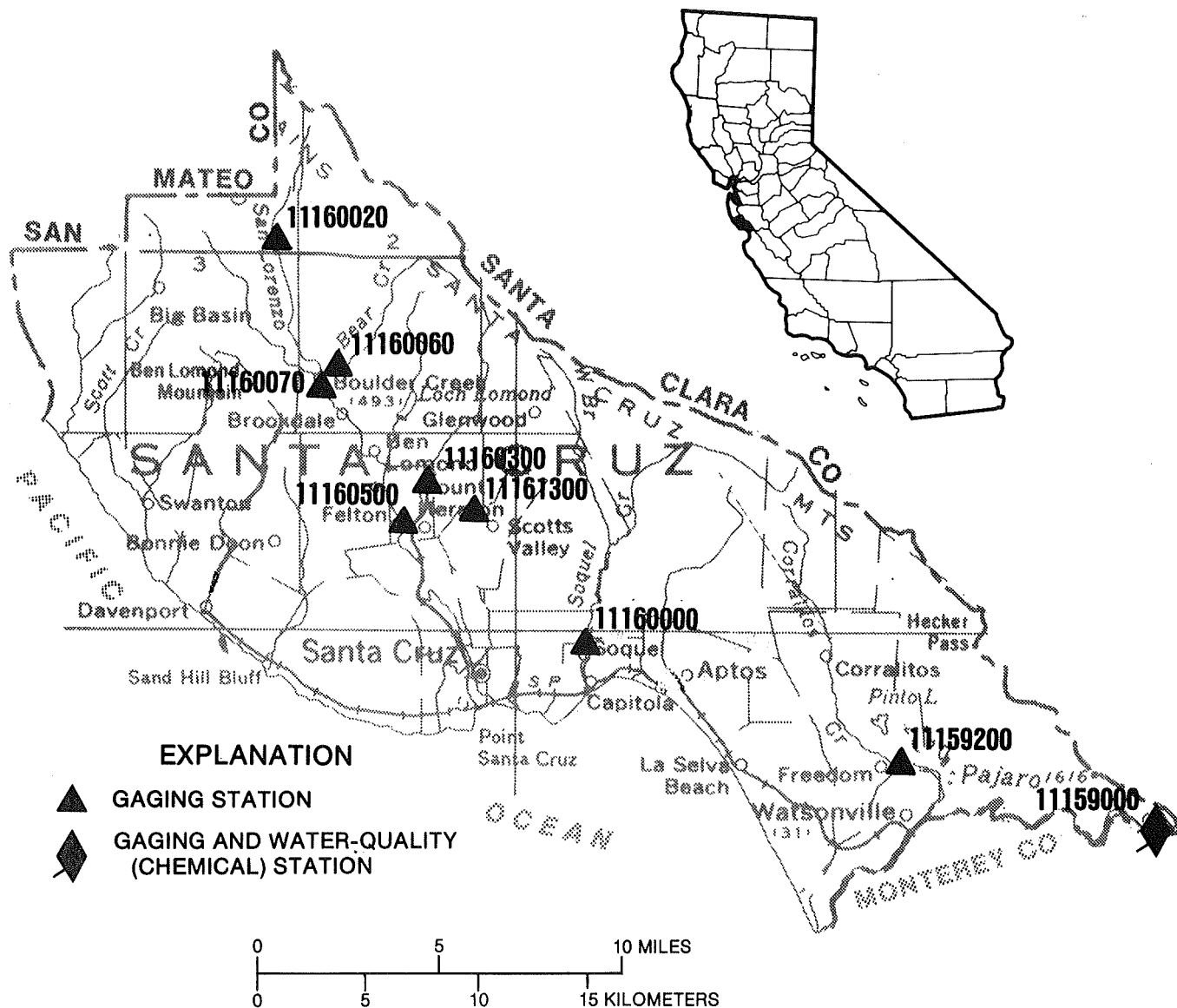


FIGURE 18.—Location of discharge and water-quality stations in Santa Cruz County.

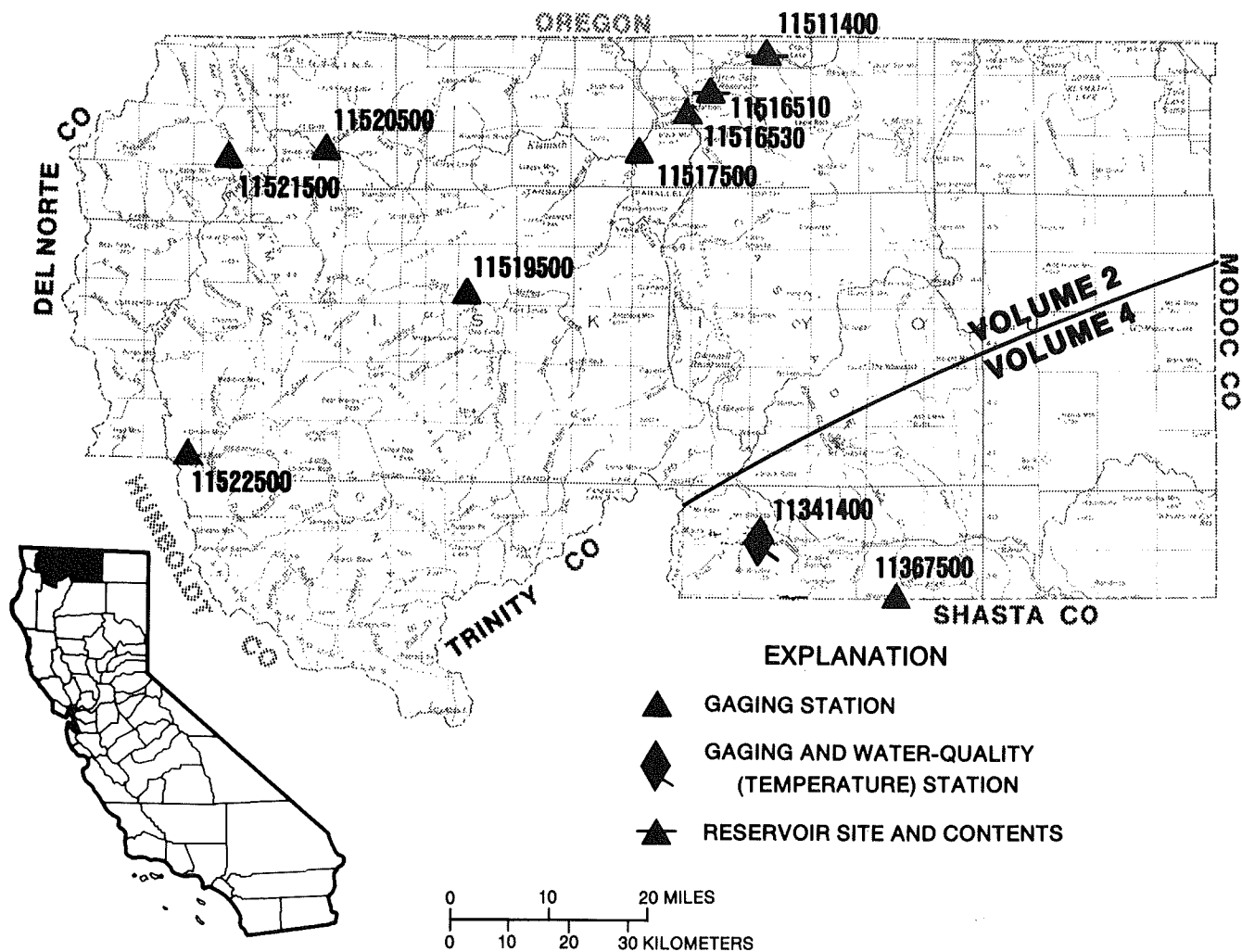


FIGURE 19.—Location of discharge and water-quality station in Siskiyou County.
 (Note: Records for stations 11341400 and 11367500 published in volume 4)

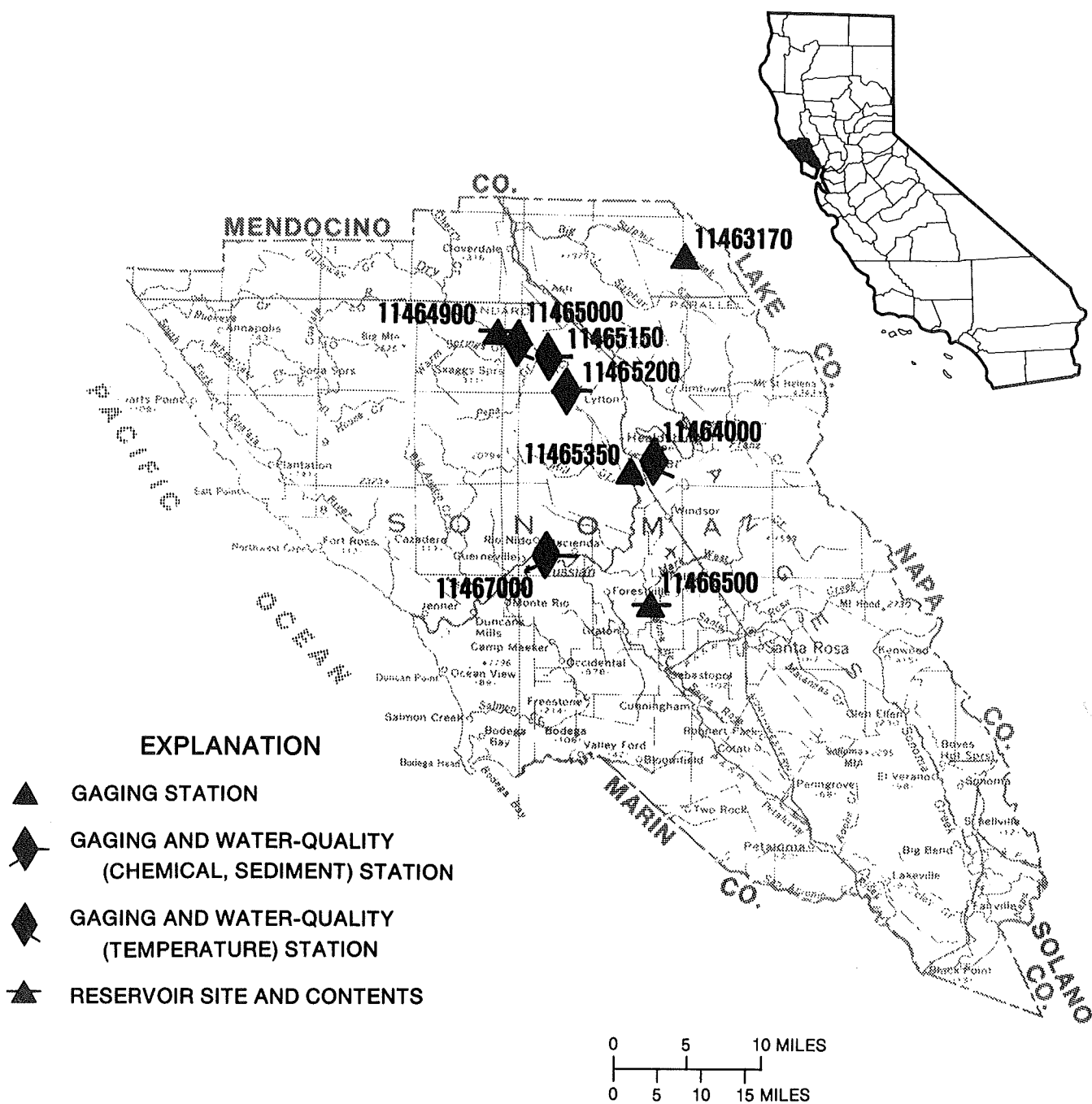


FIGURE 20.—Location of discharge and water-quality stations in Sonoma County.

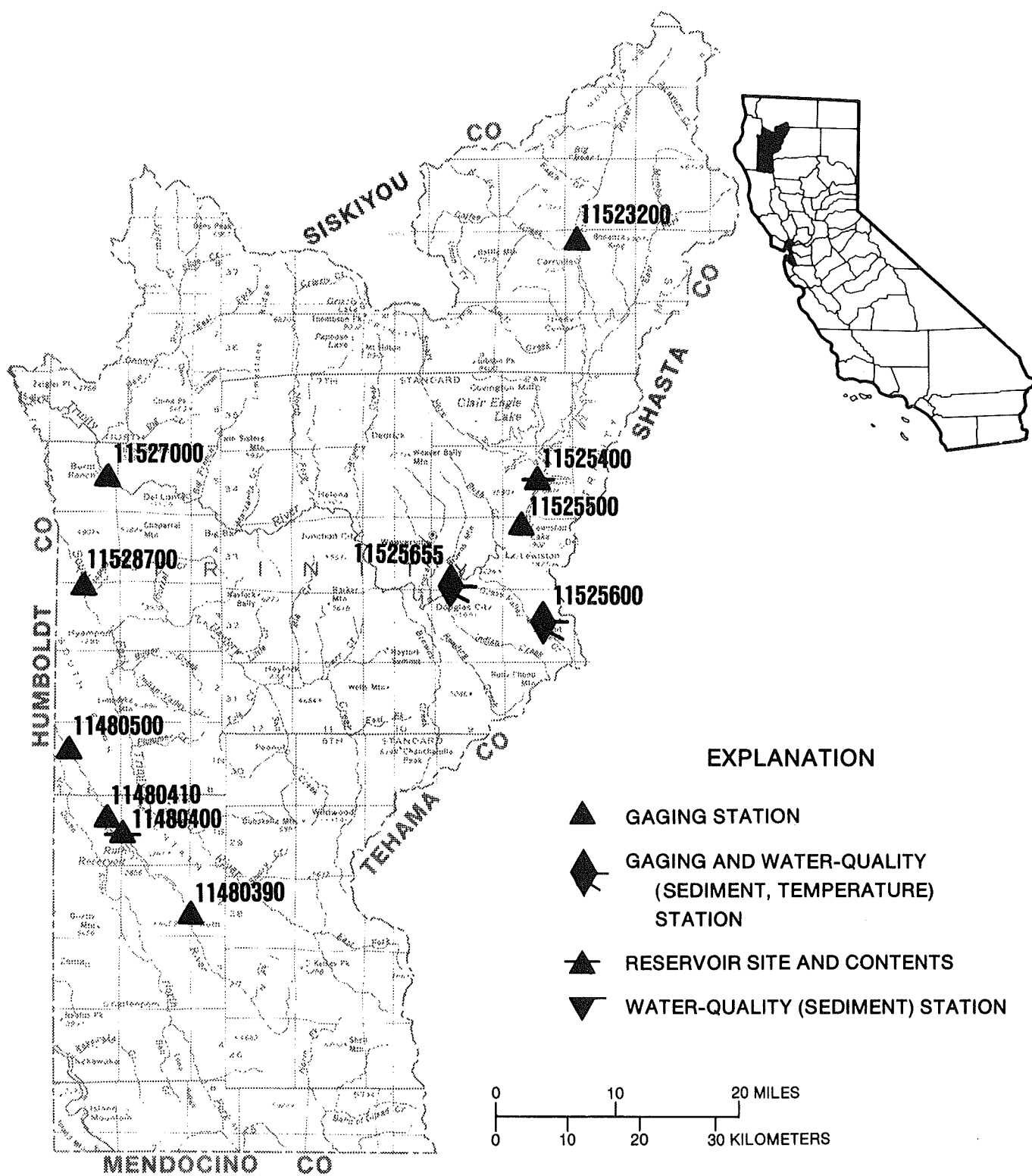


FIGURE 21.—Location of discharge and water-quality stations in Trinity County.

ARROYO GRANDE BASIN

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CA

LOCATION (REVISED).--Lat 35°11'19", long 120°26'03", in Arroyo Grande Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank 0.4 mi upstream from county road bridge, 0.45 mi upstream from Phoenix Creek, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--13.4 mi².

PERIOD OF RECORD.--June 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 24, 1984, at site 0.4 mi down.

REMARKS.--Estimated daily discharges: Oct. 9-19, Feb. 24 to Mar. 7, and Mar. 15. Records fair except above 10 ft³/s and estimated daily discharges, which are poor. No regulation or diversion upstream from station except for small stock ponds.

AVERAGE DISCHARGE.--19 years, 3.19 ft³/s, 2,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s, Jan. 25, 1969, gage height, 6.83 ft, in gage well, 6.57 ft, from floodmarks, from rating curve extended above 350 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 8.29 ft, Apr. 4, 1978, site and datum then in use; minimum daily discharge, 0.12 ft³/s, Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*), from rating curve extended above 12 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1930	345	6.94	Mar. 8	1030	*749	*8.10
Feb. 19	0515	494	7.40	Mar. 15	1500	256	6.62

Minimum daily, 0.57 ft³/s, Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.79	1.3	1.2	1.2	6.1	4.4	2.7	1.7	.81	.89	1.0
2	.66	.80	2.0	1.2	1.3	5.6	4.1	2.7	1.7	.79	.87	1.1
3	.60	.81	1.5	1.2	1.2	5.2	4.0	2.7	1.7	.79	.83	1.1
4	.57	.85	1.4	1.4	1.1	4.9	3.9	2.7	1.7	.80	.82	1.1
5	.61	.81	1.4	1.5	1.1	4.6	3.9	2.6	1.7	.85	.82	1.1
6	.72	.78	1.4	1.2	1.1	4.4	4.0	2.6	1.7	.88	.82	1.2
7	.85	.81	1.4	1.1	1.2	4.2	3.9	2.5	1.8	.85	.82	1.2
8	.81	.82	1.4	1.1	1.2	132	3.6	2.6	1.8	.85	.84	1.2
9	.81	.82	1.4	1.1	1.2	8.2	3.3	2.5	1.7	.85	.85	1.3
10	.84	1.0	1.4	1.1	1.2	20	3.3	2.5	1.7	.85	.83	1.2
11	.90	1.3	1.4	1.1	1.2	10	3.2	2.3	1.8	.83	.81	1.4
12	.84	.96	1.4	1.0	50	16	3.1	2.3	1.8	.84	.82	1.5
13	.82	.93	1.3	1.1	128	25	3.0	2.3	1.8	.86	.84	1.6
14	.81	.93	1.4	1.1	133	31	3.1	2.3	1.8	.85	.83	1.6
15	.80	.94	1.4	1.1	92	170	3.1	2.2	1.8	.82	.85	1.4
16	.90	.99	1.4	1.1	63	215	3.1	2.1	1.7	.84	.84	1.5
17	.86	.98	1.3	1.1	56	100	3.1	1.8	1.6	.85	.82	1.5
18	.84	.95	1.3	1.1	82	63	3.0	1.8	1.5	.87	.81	1.4
19	.80	.96	1.3	1.1	125	45	2.9	1.9	1.4	.87	.80	1.5
20	.76	.96	1.3	1.1	46	32	2.9	1.9	1.3	.86	.82	1.5
21	.99	.94	1.3	1.1	22	21	2.8	1.9	1.2	.80	.85	1.5
22	.83	.97	1.3	1.1	15	16	3.0	1.8	1.2	.89	.89	1.6
23	.79	.97	1.3	1.1	12	11	3.1	1.7	1.2	.91	.92	1.7
24	.78	1.0	1.2	1.1	10	8.5	3.1	1.7	1.2	.88	.90	5.5
25	.76	1.1	1.3	1.1	8.9	7.2	3.1	1.6	1.1	.92	.88	1.7
26	.77	1.0	1.3	1.1	8.0	6.3	2.9	1.6	1.1	.94	.89	1.4
27	.80	1.1	1.3	1.1	7.2	5.5	2.8	1.6	1.0	.97	.92	1.5
28	.82	1.3	1.3	1.1	6.5	5.4	2.8	1.6	.95	.99	.93	1.4
29	.86	2.0	1.3	1.1	---	5.1	2.8	1.5	.91	.96	.87	1.2
30	.85	1.3	1.3	1.3	---	4.8	2.8	1.5	.83	.94	.91	1.1
31	.82	---	1.3	1.3	---	4.6	---	1.6	---	.92	.94	---
TOTAL	24.71	29.87	42.3	35.5	877.6	997.6	98.1	65.1	44.39	26.93	26.53	45.0
MEAN	.80	1.00	1.36	1.15	31.3	32.2	3.27	2.10	1.48	.87	.86	1.50
MAX	.99	2.0	2.0	1.5	133	215	4.4	2.7	1.8	.99	.94	5.5
MIN	.57	.78	1.2	1.0	1.1	4.2	2.8	1.5	.83	.79	.80	1.0
AC-FT	49	59	84	70	1740	1980	195	129	88	53	53	89

CAI YR 1985 TOTAL 386.98 MEAN 1.06 MAX 12 MIN 30 AC-FT 768

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°14'08", long 120°28'17", in SE 1/4 sec. 19, T.31 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060006, on right bank 3.4 mi north of Lopez Lake spillway, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--20.9 mi².

PERIOD OF RECORD.--July 1967 to current year.

REVISED RECORDS.--CA-85-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 31, 1984, at site 0.4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-2. Records good except for daily discharges greater than 10 ft³/s and estimated daily discharges, which are poor. Small diversions above station for domestic use.

AVERAGE DISCHARGE.--19 years, 11.8 ft³/s, 8,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s, Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, site and datum then in use, from rating curve extended above 300 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 9.62 ft, site and datum then in use, Mar. 1, 1983; minimum daily discharge, 0.30 ft³/s, Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 16 ft³/s on basis of flow-over-road measurement at gage height 6.52 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1900	*1,500	*7.81	Mar. 8	0945	834	6.85
Feb. 19	0400	777	6.75	Mar. 15	1400	653	6.52

Minimum daily, 2.1 ft³/s, Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.7	6.1	2.3	13	17	23	9.5	6.6	4.3	3.8	3.5
2	2.4	2.7	56	2.3	11	16	22	9.4	6.7	4.2	3.8	3.5
3	2.5	2.6	15	2.4	8.9	15	21	8.9	6.6	4.1	4.1	3.6
4	3.1	2.5	6.6	5.3	7.4	14	20	8.9	6.4	4.2	4.1	3.5
5	2.4	2.7	4.5	28	6.6	14	20	8.9	6.4	4.3	4.1	3.5
6	2.4	2.7	3.9	11	6.0	13	22	8.7	6.1	4.3	3.7	3.5
7	2.5	2.7	3.5	6.5	5.4	13	20	8.4	6.3	4.1	3.7	3.5
8	2.3	2.9	3.0	5.1	5.3	146	18	8.0	6.3	4.1	4.0	3.5
9	2.3	2.9	2.9	4.5	5.0	60	16	7.8	6.3	4.1	3.7	3.5
10	2.3	6.8	2.9	4.1	4.8	171	15	7.7	6.4	4.2	3.7	3.5
11	2.2	11	2.6	3.8	4.3	94	15	7.8	6.3	4.0	3.6	3.4
12	2.3	5.7	2.7	3.6	124	99	14	7.8	6.1	4.0	3.6	3.4
13	2.3	4.5	2.7	3.4	262	82	14	7.6	6.0	4.2	3.6	3.6
14	2.3	3.9	2.7	3.4	260	76	14	7.2	6.1	4.1	3.6	3.7
15	2.3	3.6	2.5	3.4	91	104	13	7.2	6.0	4.1	3.6	3.7
16	2.2	3.6	2.5	3.1	30	175	13	7.3	5.8	4.1	3.7	3.6
17	2.1	3.6	2.5	2.9	60	87	13	7.8	5.8	4.0	3.6	3.5
18	2.2	3.4	2.5	2.9	201	62	12	7.9	5.9	4.3	3.5	3.5
19	2.3	3.4	2.5	2.9	169	51	12	7.2	5.3	4.0	3.6	3.5
20	2.3	3.4	2.7	2.9	66	51	12	7.3	4.8	4.0	3.6	3.5
21	3.8	3.4	2.7	2.9	51	50	12	7.7	4.8	4.3	3.5	3.5
22	2.9	3.4	2.5	2.9	43	52	12	7.2	4.7	4.5	3.4	3.5
23	2.9	3.4	2.3	2.9	32	38	12	7.2	4.7	4.2	3.5	3.6
24	2.8	3.6	2.3	2.9	27	34	11	7.1	4.7	4.0	3.4	6.0
25	2.7	4.5	2.3	2.9	24	32	11	6.8	4.8	3.9	3.5	4.6
26	2.7	3.9	2.3	2.9	22	31	11	6.9	4.9	3.9	3.3	4.1
27	2.7	3.6	2.2	2.9	20	28	11	6.5	4.9	4.0	3.3	4.0
28	2.7	3.6	2.2	2.9	19	26	10	6.7	4.7	4.0	3.3	3.9
29	2.7	34	2.2	2.7	---	26	10	6.7	4.3	3.9	3.3	4.1
30	2.7	12	2.3	13	---	25	9.5	6.7	4.4	3.8	3.3	3.6
31	2.7	---	2.3	26	---	24	---	6.9	---	3.9	3.4	---
TOTAL	78.5	152.7	155.9	168.7	1578.7	1726	438.5	237.7	169.1	127.1	111.9	111.4
MEAN	2.53	5.09	5.03	5.44	56.4	55.7	14.6	7.67	5.64	4.10	3.61	3.71
MAX	3.8	34	56	28	262	175	23	9.5	6.7	4.5	4.1	6.0
MIN	2.1	2.5	2.2	2.3	4.3	13	9.5	6.5	4.3	3.8	3.3	3.4
AC-FT	156	303	309	335	3130	3420	870	471	335	252	222	221

CAL. YR. 1985 TOTAL 1951.9 MEAN 5.07 MAX 182 MIN 2.1 AC-FT 2670

ARROYO GRANDE BASIN

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

LOCATION.--Lat 35°07'28", long 120°34'05", in Pismo Grant, San Luis Obispo County, Hydrologic Unit 18060006, on left bank at Arroyo Grande, and 0.7 mi upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--October 1939 to September 1986 (discontinued). Records for water year 1940 incomplete, yearly estimate published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1940. WSP 1011: 1941, 1942(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft above National Geodetic Vertical Datum of 1929. Prior to July 10, 1947, at datum 0.50 ft higher.

REMARKS.--No estimated daily discharges. Records good except for Apr. 8 to May 16, which are fair. Flow regulated by Lopez Dam 7.8 mi upstream since 1968, usable capacity, 47,800 acre-ft. Many small and intermittent diversions for irrigation of about 4,000 acres upstream from station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft³/s, 14,060 acre-ft/yr; 18 years (water years 1969-86), 19.6 ft³/s, 14,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s, Dec. 6, 1966, gage height, 12.88 ft; no flow for several days in some years. Maximum discharge since construction of Lopez Dam in 1968, 4,620 ft³/s, Mar. 1, 1983, gage height, 10.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 959 ft³/s, Mar. 15, gage height, 4.99 ft; minimum daily, 0.49 ft³/s, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	2.9	4.6	2.6	3.6	4.1	41	8.3	4.8	2.3	1.9	1.7
2	3.2	2.2	7.5	3.3	4.1	3.8	38	7.7	3.9	1.6	1.5	1.5
3	3.1	2.6	5.1	2.7	3.9	3.6	37	7.4	4.6	2.2	3.6	1.1
4	2.5	2.9	4.7	4.0	3.6	3.2	35	7.2	4.4	3.1	2.9	1.2
5	1.8	3.8	4.6	4.3	3.3	3.5	34	7.2	3.7	3.3	2.7	.94
6	3.2	3.3	4.4	3.8	3.4	3.6	36	6.8	4.6	3.7	1.6	.49
7	4.3	3.0	4.2	3.9	3.6	3.5	38	6.2	4.3	4.0	1.8	1.6
8	4.5	2.7	4.1	3.5	3.6	90	36	5.7	3.6	2.9	1.9	1.8
9	4.3	2.8	4.5	3.0	3.5	20	37	5.3	4.3	2.7	1.6	1.1
10	3.3	5.6	4.6	2.8	3.4	59	35	5.0	4.0	2.3	2.9	.84
11	1.8	6.9	4.2	2.7	3.1	38	31	4.9	2.7	2.5	2.2	.93
12	2.9	4.6	4.0	1.8	8.0	31	30	4.9	1.5	2.1	1.2	1.6
13	3.3	4.3	4.1	2.2	33	59	29	4.9	1.3	2.9	1.6	2.0
14	2.4	4.6	4.1	2.0	90	40	29	4.8	.73	3.2	1.7	3.2
15	2.1	6.6	4.1	2.2	32	145	24	4.7	1.2	2.4	1.8	2.8
16	1.8	6.4	3.9	1.8	9.7	375	20	4.2	2.0	2.1	2.0	2.4
17	2.4	5.5	3.4	1.9	6.9	363	18	4.0	1.3	2.6	2.3	1.7
18	3.3	4.0	3.2	2.6	13	284	18	3.8	1.0	1.9	1.6	2.1
19	4.3	3.5	2.9	2.8	20	206	17	3.7	.95	1.2	1.6	1.2
20	4.0	4.0	2.1	2.6	8.0	159	16	4.0	.97	2.2	1.2	1.0
21	5.6	5.7	2.6	1.9	5.9	130	15	3.5	1.1	2.4	1.2	1.4
22	4.9	5.8	2.4	2.0	5.1	116	13	4.1	.83	.76	1.3	1.2
23	5.3	6.2	2.6	1.8	4.6	105	12	4.3	1.5	1.0	1.3	1.7
24	4.5	5.7	2.4	2.5	4.4	91	12	3.8	2.0	.73	2.0	5.8
25	5.1	4.5	2.9	2.7	4.3	85	12	3.0	1.8	.63	2.0	9.0
26	4.0	4.3	3.1	2.5	4.0	61	12	3.9	1.4	.80	1.5	5.1
27	4.2	5.0	2.5	2.2	4.2	56	11	3.1	.89	2.8	1.1	5.7
28	4.6	5.9	2.7	2.1	3.8	50	11	3.1	1.1	2.4	.70	5.1
29	4.2	8.7	2.8	1.8	---	44	10	2.5	1.3	2.2	.77	4.9
30	4.0	5.2	3.4	2.7	---	42	9.4	4.2	2.6	1.9	.72	4.4
31	3.5	---	3.0	3.9	---	40	---	4.2	---	2.4	.67	---
TOTAL	112.7	139.2	114.7	82.6	296.0	2714.3	716.4	150.4	70.37	69.22	52.86	75.50
MEAN	3.64	4.64	3.70	2.66	10.6	87.6	23.9	4.85	2.35	2.23	1.71	2.52
MAX	5.6	8.7	7.5	4.3	90	375	41	8.3	4.8	4.0	3.6	9.0
MIN	1.8	2.2	2.1	1.8	3.1	3.2	9.4	2.5	.73	.63	.67	.49
AC-FT	224	276	228	164	587	5380	1420	298	140	137	105	150

CAL YR 1985 TOTAL 1260.13 MEAN 3.45 MAX 18 MIN .43 AC-FT 2500
WTR YR 1986 TOTAL 4594.25 MEAN 12.6 MAX 375 MIN .49 AC-FT 9110

BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CA

LOCATION.--Lat 36°14'45", long 121°46'20", in SW 1/4 SW 1/4 sec.29, T.19 S., R.2 E., Monterey County, Hydrologic Unit 18060006, on right bank at downstream side of bridge, 0.4 mi upstream from Post Creek, and 2.6 mi southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi².

PERIOD OF RECORD.--March 1950 to current year. Prior to October 1959, published as Sur River at Big Sur.

REVISED RECORDS.--WSP 1445: 1952(P), 1953(M). WSP 1715: 1951, drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 240 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good except for Aug. 13 to Sept. 30, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--36 years, 106 ft³/s, 76,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s, Jan. 5, 1978, gage height, 14.30 ft, from rating curve extended above 6,800 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 2.6 ft³/s, Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	1515	1,570	7.07	Mar. 8	0945	1,910	7.46
Feb. 17	2230	*4,280	*9.80	Mar. 15	1130	1,680	7.19

Minimum daily, 10 ft³/s, Oct. 4-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	89	37	252	372	247	86	49	32	20	19
2	12	17	590	36	257	339	228	85	49	31	20	19
3	11	18	302	36	227	312	213	89	48	31	20	19
4	10	18	155	367	196	288	201	88	48	31	20	19
5	10	18	112	382	171	269	202	84	48	31	20	18
6	11	18	88	213	154	251	193	82	47	32	20	17
7	12	19	75	157	139	270	182	79	46	34	20	18
8	12	19	66	127	128	1180	172	78	44	32	20	18
9	12	19	61	109	118	736	164	76	41	31	19	19
10	12	68	56	96	109	1060	158	74	41	31	19	19
11	13	52	52	87	103	991	152	72	41	29	19	19
12	14	25	49	80	613	984	147	71	41	28	20	20
13	13	20	47	75	1590	880	142	70	40	28	20	21
14	13	18	45	76	1700	761	136	68	40	28	20	19
15	13	17	43	74	1770	1190	136	66	39	27	21	20
16	13	16	41	68	1450	1330	134	64	37	27	21	21
17	13	16	40	66	1830	1180	128	63	38	26	20	22
18	14	16	38	63	2740	994	122	62	38	28	20	19
19	14	15	38	61	2230	848	118	61	37	27	21	18
20	14	16	37	58	1590	731	114	60	35	26	20	19
21	34	18	36	56	1190	640	111	58	35	25	20	19
22	21	16	35	54	933	571	109	58	35	25	19	18
23	18	17	34	54	760	516	107	58	36	28	19	19
24	17	111	34	52	645	472	105	56	37	27	20	35
25	17	207	33	51	560	429	102	55	38	26	20	30
26	16	75	33	50	496	391	98	54	37	27	20	26
27	16	44	32	49	449	358	95	52	36	26	20	30
28	17	56	32	47	407	329	93	51	35	24	19	29
29	17	192	36	55	---	306	91	51	33	24	18	24
30	17	139	46	170	---	285	89	50	33	23	18	23
31	17	---	41	313	---	265	---	49	---	21	18	---
TOTAL	455	1317	2416	3219	22807	19528	4289	2070	1202	866	611	636
MEAN	14.7	43.9	77.9	104	815	630	143	66.8	40.1	27.9	19.7	21.2
MAX	34	207	590	382	2740	1330	247	89	49	34	21	35
MIN	10	15	32	36	103	251	89	49	33	21	18	17
AC-FT	902	2610	4790	6380	45240	38730	8510	4110	2380	1720	1210	1260

CAL YR 1985	TOTAL	16314	MEAN	44.7	MAX	813	MIN	10	AC-FT	32360
WTR YR 1986	TOTAL	59416	MEAN	163	MAX	2740	MIN	10	AC-FT	117900

CARMEL RIVER BASIN

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'40" (revised), in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on right bank 10 ft downstream from county road bridge at Robles Del Rio, 0.2 mi downstream from Hitchcock Canyon and 11 mi southeast of town of Carmel.

DRAINAGE AREA.--193 mi².

PERIOD OF RECORD.--August 1957 to current year.

REVISED RECORDS.--WSP 1715; Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 270 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 1981 at site 150 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 4-7, Oct. 11-16, and Feb. 25 to Mar. 13. Records good except for estimated record periods, which are fair. Low flow regulated by Los Padres Reservoir 11 mi upstream, capacity, 2,180 acre-ft and San Clemente reservoir 4 mi upstream, capacity, 800 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 6,940 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--29 years, 97.9 ft³/s, 70,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,380 ft³/s, Feb. 28, 1983, from rating curve extended above 4,900 ft³/s, gage height, 11.49 ft; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 11.7 ft from floodmarks, discharge, 6,930 ft³/s by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*), from rating curve extended above 1,100 ft³/s, on basis of slope-area measurement at gage height 9.97 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1830	*6,680	*10.56	Mar. 15	1515	3,240	8.94

Minimum daily, 0.14 ft³/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	3.0	9.0	280	360	247	94	18	7.1	6.6	5.3
2	.95	1.4	43	7.8	206	330	235	82	18	8.0	6.7	5.7
3	.54	1.4	101	8.0	186	300	221	84	15	7.9	6.9	8.1
4	.23	1.3	189	78	164	280	210	84	14	7.5	7.2	8.4
5	.17	1.4	121	275	131	260	214	81	13	7.4	7.2	6.9
6	.18	1.5	75	140	111	240	232	81	12	7.6	6.9	6.9
7	.28	1.8	54	90	93	230	236	78	12	7.8	6.8	7.0
8	.79	1.8	42	67	78	900	203	75	12	7.8	6.7	6.6
9	.63	1.7	36	53	69	710	180	72	13	7.7	6.5	7.7
10	.42	3.1	30	44	59	1100	170	69	12	7.6	6.2	8.1
11	.22	3.2	25	39	51	1400	162	67	11	7.4	6.5	7.3
12	.22	2.3	22	33	267	1200	155	66	9.5	7.1	6.3	7.1
13	.31	2.2	20	29	1600	1050	149	63	9.3	7.1	6.3	6.9
14	.20	2.2	18	27	2900	849	144	61	8.9	7.3	6.2	6.7
15	.14	2.2	16	26	4130	1640	138	58	8.7	8.8	6.1	6.6
16	.19	2.1	15	23	2370	1910	136	57	8.7	8.5	6.0	6.6
17	.60	2.1	14	20	1850	1640	133	53	13	8.2	6.0	7.5
18	.71	1.9	12	17	3400	1250	127	50	17	8.1	5.7	7.4
19	.73	1.8	11	16	3570	1020	121	50	16	8.2	5.7	7.0
20	1.0	2.0	11	15	2220	822	115	47	15	8.1	5.8	6.8
21	2.4	2.2	10	14	1480	684	106	48	15	7.7	5.8	6.7
22	1.6	2.1	9.3	12	1080	587	117	47	14	6.9	5.7	6.7
23	1.5	1.7	8.5	12	837	525	120	46	13	7.0	5.8	6.6
24	1.9	3.0	8.1	12	679	474	119	45	13	7.0	5.8	7.0
25	2.0	4.7	8.0	11	590	425	117	45	17	6.8	6.0	6.6
26	1.8	2.7	7.5	9.8	510	393	110	44	15	6.8	5.9	5.8
27	1.7	2.5	11	9.3	450	360	97	34	12	6.6	5.8	7.4
28	1.7	2.9	7.0	8.9	400	324	105	25	9.9	6.7	5.9	6.4
29	1.7	5.8	6.9	10	---	297	103	26	7.8	6.7	5.8	6.0
30	1.8	3.5	9.2	53	---	280	100	20	7.3	6.7	5.7	5.8
31	1.6	---	11	215	---	262	---	18	---	6.6	5.4	---
TOTAL	29.41	70.0	954.5	1383.8	29761	22102	4622	1770	380.1	230.7	191.9	205.6
MEAN	.95	2.33	30.8	44.6	1063	713	154	57.1	12.7	7.44	6.19	6.85
MAX	2.4	5.8	189	275	4130	1910	247	94	18	8.8	7.2	8.4
MIN	.14	1.3	3.0	7.8	51	230	97	18	7.3	6.6	5.4	5.3
AC-FT	58	139	1890	2740	59030	43840	9170	3510	754	458	381	408

CAL YR 1985	TOTAL	9079.05	MEAN	24.9	MAX	354	MIN	.14	AC-FT	18010
WTR YR 1986	TOTAL	61701.01	MEAN	169	MAX	4130	MIN	.14	AC-FT	122400

CARMEL RIVER BASIN

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on right bank 0.3 mi downstream from Potrero Canyon, and 3 mi east of Carmel.

DRAINAGE AREA.--246 mi².

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 45 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: June 26 to July 16. Records good except for discharges less than 1.0 ft³/s and estimated daily discharges, which are poor. Low flow regulated by Los Padres Reservoir, capacity, 2,180 acre-ft, and San Clemente Reservoir, capacity, 800 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 6,940 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--24 years, 120 ft³/s, 86,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,590 ft³/s, Feb. 28, 1983, gage height, 18.22 ft in gage well, 18.22 ft from floodmarks, from rating curve extended above 2,800 ft³/s on basis of slope-area measurement at gage height 17.35 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*), from rating curve extended above 3,100 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	2100	*6,730	*14.76	Mar. 15	1645	2,840	10.47

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	187	340	303	104	17	1.5		
2				0	157	315	283	91	18	1.2		
3				0	155	293	268	89	16	.90		
4				0	144	280	257	91	14	.60		
5				58	126	257	260	89	12	.30		
6				59	115	253	269	86	10	.20		
7				44	106	240	288	82	9.6	.13		
8				33	99	868	253	78	10	.11		
9				26	92	697	231	73	9.1	.10		
10				21	86	1130	219	69	7.0	.09		
11				19	80	1400	207	66	5.0	.08		
12				16	92	1160	197	63	4.5	.07		
13				15	1390	1050	192	59	2.5	.06		
14				14	2580	879	183	56	2.0	.05		
15				14	4010	1540	178	53	1.9	.04		
16				14	1920	1810	174	51	1.2	.02		
17				13	1330	1510	169	47	.81	0		
18				13	3010	1110	162	46	1.0	0		
19				13	3010	943	154	44	5.1	0		
20				12	1560	811	145	43	6.2	0		
21				11	975	710	135	40	8.0	0		
22				11	784	632	135	40	8.1	0		
23				10	653	571	138	38	6.3	0		
24				10	572	518	139	37	3.8	0		
25				10	504	475	132	36	3.2	0		
26				9.9	450	441	126	36	3.0	0		
27				9.0	411	405	110	35	2.7	0		
28				9.0	373	373	113	25	2.4	0		
29				11	---	349	111	24	2.1	0		
30				24	---	331	107	21	1.8	0		
31		---		104	---	315	---	19	---	0		---
TOTAL	0	0	0	602.9	24971	22006	5638	1731	194.31	5.45	0	0
MEAN	0	0	0	19.4	892	710	188	55.8	6.48	.18	0	0
MAX	0	0	0	104	4010	1810	303	104	18	1.5	0	0
MIN	0	0	0	0	80	240	107	19	.81	0	0	0
AC-FT	0	0	0	1200	49530	43650	11180	3430	385	11	0	0
CAL YR 1985	TOTAL	7622.72	MEAN	20.9	MAX	317	MIN	0	AC-FT	15120		
WTR YR 1986	TOTAL	55148.66	MEAN	151	MAX	4010	MIN	0	AC-FT	109400		

SALINAS RIVER BASIN

11144500 SANTA MARGARITA LAKE NEAR POZO, CA

LOCATION.--Lat 35°20'14", long 120°30'08", in NW 1/4 NW 1/4 sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005 at left end of dam on Salinas River, 2 mi upstream from Pilitas Creek, and 7.5 mi northwest of Pozo.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--December 1941 to September 1986 (discontinued). Prior to October 1967, published as Salinas Reservoir near Pozo.

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 23,000 acre-ft between elevations 1,220.3 ft, bottom of outlet pipe and 1,300.7 ft spillway crest, NGVD. Additional storage of 400 acre-ft is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

COOPERATION.--Elevations provided by County of San Luis Obispo.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,000 acre-ft, Jan. 25, 1969, elevation, 1,313.30 ft; minimum, 1,730 acre-ft, elevation, 1,242.5 ft, Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum usable contents, 24,700 acre-ft, Mar. 17, elevation, 1,302.92 ft; minimum, 7,610 acre-ft, Feb. 12, elevation, 1,269.72 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on 1975 survey)

1,220.3	0	1,245	2,000	1,270	7,700	1,295	19,300
1,225	198	1,250	2,800	1,275	9,500	1,300	22,400
1,230	470	1,255	3,800	1,280	11,500	1,310	30,700
1,235	840	1,260	4,900	1,285	13,800	1,320	41,000
1,240	1,350	1,265	6,200	1,290	16,400		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9900	9150	8820	8250	7870	23300	23200	23000	22100	20900	19800	18900
2	9900	9130	8850	8240	7870	23300	23200	22900	22000	20900	19800	18800
3	9900	9110	8940	8220	7860	23200	23200	22900	22000	20800	19800	18800
4	9800	9090	8850	8230	7840	23200	23200	22900	21900	20800	19700	18800
5	9800	9050	8730	8260	7810	23200	23200	22900	21900	20700	19700	18700
6	9800	9030	8700	8270	7790	23200	23200	22800	21900	20700	19700	18700
7	9800	9010	8680	8260	7760	23200	23200	22800	21800	20700	19600	18700
8	9700	8990	8640	8250	7730	23200	23200	22800	21800	20600	19600	18700
9	9700	8960	8620	8220	7700	23800	23200	22800	21700	20600	19600	18600
10	9700	8940	8590	8200	7670	23900	23200	22700	21700	20600	19600	18600
11	9700	9010	8560	8170	7640	24500	23200	22700	21700	20500	19500	18600
12	9600	9020	8540	8140	7610	24100	23200	22700	21600	20500	19500	18500
13	9600	9000	8520	8110	9510	23900	23100	22700	21600	20400	19500	18500
14	9560	8980	8520	8080	11700	23900	23100	22700	21600	20400	19400	18400
15	9540	8960	8510	8060	14400	23700	23100	22600	21500	20400	19400	18400
16	9520	8940	8490	8040	16200	24600	23100	22600	21500	20300	19400	18400
17	9490	8920	8480	8010	16900	24700	23100	22600	21400	20300	19300	18400
18	9460	8900	8460	7980	18100	24100	23100	22600	21400	20200	19300	18300
19	9440	8880	8460	7970	20400	23700	23100	22500	21400	20200	19300	18300
20	9410	8850	8440	7960	22800	23400	23100	22500	21300	20200	19300	18300
21	9390	8840	8420	7940	23400	23200	23000	22500	21300	20100	19200	18200
22	9390	8820	8410	7920	23500	23100	23000	22400	21300	20100	19200	18200
23	9370	8790	8400	7900	23400	23200	23000	22400	21200	20100	19200	18200
24	9350	8770	8380	7870	23400	23200	23000	22300	21200	20100	19100	18100
25	9320	8790	8370	7850	23400	23300	23000	22300	21100	20000	19100	18100
26	9300	8780	8350	7840	23300	23300	23000	22300	21100	20000	19100	18100
27	9280	8780	8330	7820	23300	23300	23000	22300	21100	20000	19000	18100
28	9250	8760	8310	7800	23300	23200	23000	22200	21000	19900	19000	18100
29	9230	8750	8300	7780	---	23200	23000	22200	21000	19900	19000	18000
30	9200	8820	8290	7780	---	23200	23000	22200	20900	19900	18900	18000
31	9180	---	8280	7810	---	23200	---	22100	---	19900	18900	---
MAX	9900	9150	8940	8270	23500	24700	23200	23000	22100	20900	19800	18900
MIN	9180	8750	8280	7780	7610	23100	23000	22100	20900	19900	18900	18000
a	1274.15	1273.19	1271.66	1270.32	1301.08	1300.96	1300.64	1299.43	1297.61	1295.90	1294.34	1292.83
b	-760	-360	-540	-470	+15490	-100	-200	-900	-1200	-1000	-1000	-900
c	643	552	501	503	286	354	450	716	740	565	455	546

CAL YR 1985 b -6920 c 7170

WTR YR 1986 b 8100 c 6310

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

SALINAS RIVER BASIN

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CA

LOCATION.--Lat 35°20'07", long 120°30'10", in NW 1/4 NW 1/4 sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 900 ft downstream from Salinas Dam, 2 mi upstream from Pilitas Creek, and 7.5 mi northwest of Pozo.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--October 1973 to April 1986 (discontinued).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 1,180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Santa Margarita Lake (station 11144500) 900 ft upstream, and water diverted to Camp San Luis Obispo and city of San Luis Obispo.

AVERAGE DISCHARGE.--12 years (water years 1974-85), 29.6 ft³/s, 21,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft³/s, Feb. 10, 1978, gage height, 10.24 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1985 to April 1986, 1,560 ft³/s, Mar. 16, gage height, 6.00 ft; minimum daily, 0.18 ft³/s, Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	.90	4.3	3.2	6.6	32	21					
2	.95	.91	8.8	3.2	7.1	35	18					
3	.77	.94	31	3.4	7.2	33	15					
4	.79	.93	64	3.7	7.1	26	13					
5	.79	1.0	50	3.3	7.0	19	13					
6	.82	.85	8.0	3.1	8.7	16	15					
7	.82	.74	8.1	4.8	9.6	13	18					
8	.81	.68	8.2	6.9	9.5	165	20					
9	.81	.67	6.1	7.0	9.3	378	22					
10	.79	.82	4.6	7.0	9.3	767	---					
11	.79	.75	3.5	7.1	9.5	926	---					
12	.79	.77	1.1	7.1	9.8	593	---					
13	.80	1.1	1.0	7.2	4.8	439	---					
14	.79	1.2	1.0	7.2	1.0	419	---					
15	.83	1.2	1.0	7.1	.45	460	---					
16	.88	1.6	1.0	7.0	.21	1320	---					
17	.85	1.9	1.0	7.1	.18	1080	---					
18	.80	1.9	1.1	4.4	.22	635	---					
19	.80	1.8	1.0	2.5	.30	429	---					
20	.84	1.9	1.0	2.9	17	265	---					
21	.88	1.9	.96	3.0	126	194	---					
22	.60	1.8	.94	2.9	145	56	---					
23	.52	1.8	1.5	2.9	123	27	---					
24	1.0	1.8	3.4	2.9	98	43	---					
25	.89	1.8	3.4	3.0	70	47	---					
26	.90	1.6	3.3	3.1	57	45	---					
27	.93	2.6	3.2	3.0	46	41	---					
28	.94	4.4	3.2	3.3	39	32	---					
29	.93	4.5	3.2	3.3	---	27	---					
30	1.0	4.4	3.3	3.7	---	25	---					
31	.90	---	3.3	4.8	---	24	---					
TOTAL	25.79	49.16	235.50	141.1	828.86	8611	---					
MEAN	.83	1.64	7.60	4.55	29.6	278	---					
MAX	1.0	4.5	64	7.2	145	1320	---					
MIN	.52	.67	.94	2.5	.18	13	---					
AC-FT	51	98	467	280	1640	17080	---					

CAL YR 1985 TOTAL 903.64 MEAN 2.48 MAX 64 MIN .04 AC-FT 1790

SALINAS RIVER BASIN

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.6 mi upstream from mouth, and 4 mi west of Templeton.

DRAINAGE AREA.--18.2 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 8 to Nov. 6, Mar. 31 to Apr. 2, and June 19 to July 30. Records fair except for estimated discharges, which are poor. Some regulation and pumping upstream from station.

AVERAGE DISCHARGE.--25 years, 15.3 ft³/s, 11,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft³/s, Jan. 19, 1969, gage height, 11.12 ft in gage well, 11.75 ft from floodmarks, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*), from rating curve extended above 720 ft³/s, on basis of slope-area measurement at gage height 11.12 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 13	0200	*2,750	*8.78	Mar. 8	0845	1,180	7.02
Feb. 19	0430	1,290	7.18	Mar. 15	1430	820	6.39

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1.8	.87	17	16	10	2.8	.89	.07		
2	0	0	43	.80	15	14	9.0	2.6	.91	.07		
3	0	0	33	.79	14	13	7.9	2.7	.95	.06		
4	0	0	7.3	59	12	12	7.5	2.7	.95	.06		
5	0	0	3.6	163	9.4	11	7.6	2.6	1.0	.05		
6	0	0	2.2	40	8.1	10	7.5	2.8	1.0	.05		
7	0	0	1.6	17	6.8	9.7	6.9	2.7	.86	.05		
8	0	0	1.3	10	6.1	498	6.5	2.5	.65	.04		
9	0	0	1.1	7.2	5.4	166	6.1	2.4	.45	.04		
10	0	.19	.91	5.5	4.8	419	5.8	2.4	.45	.03		
11	0	2.8	.87	4.5	4.6	198	5.4	2.2	.53	.03		
12	0	1.2	.72	3.9	327	322	5.0	2.2	.53	.03		
13	0	.64	.72	3.4	891	220	4.3	1.9	.59	.03		
14	0	.42	.61	4.5	542	172	3.9	1.8	.64	.02		
15	0	.34	.60	7.7	267	293	3.8	1.7	.45	.02		
16	0	.34	.60	4.3	132	331	3.6	1.7	.44	.02		
17	0	.32	.60	3.5	281	211	3.6	1.5	.45	.02		
18	0	.29	.60	3.3	721	123	4.6	1.4	.45	.01		
19	0	.24	.60	3.1	482	80	4.5	1.2	.38	.01		
20	0	.27	.60	2.8	180	56	4.2	1.0	.30	.01		
21	.20	.35	.57	2.4	93	44	4.1	.94	.27	.01		
22	.05	.33	.49	2.3	59	37	3.8	.86	.22	.01		
23	0	.39	.58	2.2	44	31	3.8	.81	.19	.01		
24	0	1.0	.58	2.2	35	27	3.7	.88	.17	.01		
25	0	2.3	.52	1.9	29	23	3.8	.76	.15	0		
26	0	1.6	.49	1.9	24	21	3.7	.88	.13	0		
27	0	1.1	.49	1.9	21	18	3.3	.89	.12	0		
28	0	.92	.48	1.8	18	17	3.3	.89	.10	0		
29	0	4.8	.61	1.8	---	15	3.1	.97	.09	0		
30	0	4.2	.87	6.8	---	14	2.9	.88	.08	0		
31	0	---	1.0	29	---	12	---	.89	---	0		---
TOTAL	.25	24.04	109.01	399.36	4249.2	3433.7	153.2	52.45	14.39	.76	0	0
MEAN	.008	.80	3.52	12.9	152	111	5.11	1.69	.48	.025	0	0
MAX	.20	4.8	43	163	891	498	10	2.8	1.0	.07	0	0
MIN	0	0	.48	.79	4.6	9.7	2.9	.76	.08	0	0	0
AC-FT	.5	48	216	792	8430	6810	304	104	29	1.5	0	0

CAL YR 1985 TOTAL 1562.08 MEAN 4.28 MAX 387 MIN 0 AC-FT 3100
WTR YR 1986 TOTAL 8436.36 MEAN 23.1 MAX 891 MIN 0 AC-FT 16730

SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CA

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank at upstream side of 13th Street Bridge in Paso Robles, and 3.5 mi upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi².

PERIOD OF RECORD.--October 1939 to September 1965, October 1969 to current year.

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 670.61 ft above National Geodetic Vertical Datum of 1929. Prior to June 14, 1951, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Low flows regulated by Santa Margarita Lake (station 11144500) 32 mi upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--43 years, 101 ft³/s, 73,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s, Feb. 16, 1980, gage height, 15.99 ft, from rating curve extended above 11,000 ft³/s; maximum gage height, 17.24 ft, Apr. 3, 1958; no flow for long periods in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 23.8 ft from floodmarks, discharge, 28,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 13	0600	*9,540	*13.10	Mar. 10	1500	5,980	11.27
Feb. 19	1000	7,690	12.20	Mar. 16	1100	4,830	10.56

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	53	268	204	30	0			
2				0	40	234	189	29	.04			
3				0	35	218	166	26	.07			
4				0	28	205	156	25	.18			
5				0	25	193	152	25	.01			
6				48	20	167	152	24	0			
7				16	18	155	143	23	0			
8				3.0	16	2200	134	22	0			
9				0	13	1410	130	20	0			
10				0	11	3230	129	18	0			
11				0	11	2400	116	17	0			
12				0	96	2200	111	15	0			
13				0	4060	1610	102	14	0			
14				0	3280	1460	96	14	0			
15				0	3940	2120	89	12	0			
16				0	1250	4050	80	11	0			
17				0	1530	2740	76	9.0	0			
18				0	4090	1680	73	7.6	0			
19				0	3990	1220	69	6.9	0			
20				0	1520	925	62	5.3	0			
21				0	904	704	56	3.9	0			
22				0	752	604	50	3.1	0			
23				0	629	433	47	2.7	0			
24				0	552	362	45	3.4	0			
25				0	454	328	43	3.1	0			
26				0	388	293	41	2.3	0			
27				0	347	278	38	1.8	0			
28				0	329	263	35	1.1	0			
29				0	---	245	32	.50	0			
30				4.6	---	227	31	.07	0			
31		---		17	---	215	---	0	---			---
TOTAL	0	0	0	88.6	28381	32637	2847	375.77	.30	0	0	0
MEAN	0	0	0	2.86	1014	1053	94.9	12.1	.010	0	0	0
MAX	0	0	0	48	4090	4050	204	30	.18	0	0	0
MIN	0	0	0	0	11	155	31	0	0	0	0	0
AC-FT	0	0	0	176	56290	64740	5650	745	.6	0	0	0

SALINAS RIVER BASIN

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

LOCATION.--Lat 35°43'02", long 120°38'21", in NW 1/4 NW 1/4 sec.36, T.25 S., R.12 E., San Luis Obispo County, Hydrologic Unit 18060004, on right bank 0.2 mi downstream from mouth of Ranchito Canyon, and 1.9 mi northwest of Estrella.

DRAINAGE AREA.--922 mi², not including Carrizo Plains.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1960, published as Estrella Creek near Estrella.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 671.59 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records fair. No regulation; pumpage from wells along river for irrigation above station.

AVERAGE DISCHARGE.--32 years, 27.5 ft³/s, 19,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s, Feb. 24, 1969, gage-height, 10.4 ft from floodmarks, by slope-area measurement of maximum flow; maximum gage height, 10.9 ft, Jan. 25, 1969, from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 15	0845	1,040	3.24	Mar. 11	0130	893	3.11
Feb. 19	2245	*1,230	*3.40	Mar. 16	2045	983	3.19

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.9	4.5					
2					0	1.9	3.4					
3					0	2.2	2.1					
4					0	2.3	1.7					
5					0	2.5	2.3					
6					0	1.9	2.6					
7					0	2.4	6.7					
8					0	8.5	7.1					
9					0	7.0	8.3					
10					0	68	6.7					
11					0	258	2.5					
12					0	87	2.2					
13					2.2	56	2.6					
14					283	77	2.2					
15					328	113	1.7					
16					160	552	2.0					
17					96	433	2.3					
18					68	200	1.8					
19					267	79	.80					
20					271	47	.27					
21					67	34	0					
22					21	22	0					
23					12	9.3	0					
24					10	4.9	0					
25					5.6	5.4	0					
26					3.1	5.7	0					
27					3.4	6.2	0					
28					4.3	4.2	0					
29					---	2.9	0					
30					---	2.1	0					
31		---			---	4.3	---		---			---
TOTAL	0	0	0	0	1601.6	2102.6	63.77	0	0	0	0	0
MEAN	0	0	0	0	57.2	67.8	2.13	0	0	0	0	0
MAX	0	0	0	0	328	552	8.3	0	0	0	0	0
MIN	0	0	0	0	0	1.9	0	0	0	0	0	0
AC-FT	0	0	0	0	3180	4170	126	0	0	0	0	0

CAL YR 1985	TOTAL	100.85	MEAN	.28	MAX	9.4	MIN	0	AC-FT	200
WTR YR 1986	TOTAL	3767.97	MEAN	10.3	MAX	552	MIN	0	AC-FT	7470

SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

LOCATION.--Lat 35°47'19", long 121°05'34", in SW 1/4 NE 1/4 sec.3, T.25 S., R.8 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank just downstream from Sapaque Creek, and 1.4 mi south of Bryson.

DRAINAGE AREA.--162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--WRD CA-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 13-25, Nov. 28 to Dec. 9, Dec. 27 to Jan. 10, Feb. 1-13, Feb. 25 to Mar. 17, Apr. 8-16, July 30 to Aug. 1, and Sept. 27-28. Records good except for estimated daily discharges which are poor. No storage or diversion upstream from station.

AVERAGE DISCHARGE.--15 years, 221 ft³/s, 160,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft³/s, Jan. 16, 1978, gage height, 32.00 ft, from rating curve extended above 7,900 ft³/s on basis of slope-area measurement of peak flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*), from rating curve extended as indicated above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1845	*21,800	*23.23	Mar. 8	1045	10,100	18.48
Feb. 19	0415	18,400	22.01	Mar. 15	1415	11,400	19.10

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	98	30	560	335	198	50	14	3.8	.05	0
2		0	1600	28	300	310	183	47	13	3.6	0	0
3		0	656	27	230	288	170	47	13	3.2	0	0
4		0	277	2100	180	270	161	48	13	2.9	0	0
5		0	150	1400	140	256	159	47	12	2.6	0	0
6		0	97	485	121	240	175	46	12	2.6	0	0
7		0	76	266	105	226	170	44	11	2.9	0	0
8		0	69	186	94	2850	162	43	11	3.3	0	0
9		0	61	143	82	1190	155	41	10	3.5	0	0
10		1.3	56	123	73	3050	144	39	9.4	3.2	0	0
11		2.7	50	108	70	1880	133	36	8.4	2.7	0	0
12		1.8	46	95	3000	2500	122	35	8.3	2.3	0	0
13		.80	43	86	4500	1440	113	32	8.1	2.1	0	0
14		.27	40	79	10000	1100	105	33	7.6	1.6	0	0
15		.30	39	80	5710	4400	98	31	7.4	1.4	0	0
16		.30	37	73	2490	3700	92	29	6.8	1.4	0	0
17		.30	34	67	4280	1950	85	28	6.6	.92	0	0
18		.30	33	63	9200	1370	81	26	6.6	.69	0	0
19		.08	31	60	8110	1010	77	24	6.6	.46	0	0
20		.03	30	57	2240	800	73	23	6.6	.46	0	0
21		.03	29	54	1330	663	70	23	6.5	.51	0	0
22		.03	28	52	979	564	69	22	6.4	.46	0	0
23		.04	27	51	777	492	69	22	5.9	1.3	0	0
24		2.3	27	49	641	435	68	22	5.4	.92	0	0
25		503	26	47	525	386	64	21	5.2	.46	0	0
26		180	26	46	460	342	62	20	5.0	.46	0	0
27		65	25	44	410	305	60	19	4.8	1.2	0	.01
28		50	24	43	365	273	58	17	4.4	.92	0	.02
29		250	26	42	---	249	54	16	4.3	.23	0	0
30		230	31	220	---	231	52	15	4.2	.19	0	0
31		---	36	1110	---	214	---	14	---	.14	0	---
TOTAL	0	1288.58	3828	7314	56972	33319	3282	960	243.5	52.42	.05	.03
MEAN	0	43.0	123	236	2035	1075	109	31.0	8.12	1.69	.002	.001
MAX	0	503	1600	2100	10000	4400	198	50	14	3.8	.05	.02
MIN	0	0	24	27	70	214	52	14	4.2	.14	0	0
AC-FT	0	2560	7590	14510	113000	66090	6510	1900	483	104	.10	.06

SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year. Published as station 11148800 "near Bryson" in water years 1958-59, 1961-71.

WATER TEMPERATURE: Water years 1972-73.

SEDIMENT DATA: Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to September 1973.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1973.

REMARKS.--Bedload samples were collected 150 ft downstream from high-water measuring section.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,270 mg/L, Jan.18, 1973; minimum daily mean, no flow many days in each year.

SEDIMENT LOAD: Maximum daily, 46,700 tons, Jan. 18, 1973; minimum daily, 0 ton many days in each year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC											
09...	1455	61	13.5	2	0.33	--	--	--	--	--	--
JAN											
10...	1225	130	8.5	4	1.4	--	--	--	--	--	--
FEB											
13...	1425	3650	13.0	478	4710	45	54	65	85	99	100
MAR											
17...	1710	1910	13.0	98	505	73	--	--	--	--	--
APR											
17...	1210	86	14.0	2	0.46	--	--	--	--	--	--
MAY											
13...	1210	33	20.5	5	0.45	--	--	--	--	--	--
JUN											
20...	1610	6.3	--	11	0.19	--	--	--	--	--	--
JUL											
29...	1530	0.46	29.0	6	0.01	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT								
04...	1354	--	1	0.0	--	--	--	--
04...	1356	--	1	0.0	--	--	2	35
04...	1358	--	1	0.0	--	--	1	22
04...	1400	--	1	0.0	--	--	4	53
04...	1402	--	1	0.0	--	--	4	20
04...	1404	--	1	0.0	2	4	23	91
04...	1406	--	1	0.0	4	12	34	55
04...	1408	--	1	0.0	2	5	13	24
APR								
17...	1312	14.0	1	86	--	--	--	1
17...	1314	14.0	1	86	--	--	--	--
17...	1316	14.0	1	86	--	--	--	--
17...	1318	14.0	1	86	--	--	--	1
17...	1320	14.0	1	86	--	--	1	5
17...	1322	14.0	1	86	--	--	2	6
17...	1324	14.0	1	86	--	--	3	9
17...	1326	14.0	1	86	--	1	4	20
17...	1328	14.0	1	86	2	8	31	69

SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
04...	1	2	5	18	52	84	100
04...	90	98	99	100	--	--	--
04...	80	88	91	96	99	100	--
04...	96	98	99	100	--	--	--
04...	34	38	40	45	60	90	100
04...	100	--	--	--	--	--	--
04...	62	66	69	73	78	92	100
04...	34	46	58	72	83	91	100
APR							
17...	1	2	5	17	43	75	100
17...	--	--	1	1	12	29	100
17...	--	1	3	11	38	84	100
17...	2	6	10	14	24	63	100
17...	23	38	53	70	94	100	--
17...	30	62	70	76	89	100	--
17...	47	77	83	90	100	--	--
17...	66	77	78	80	90	100	--
17...	84	86	88	90	100	--	--

PARTICLE SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
DEC								
09...	1500	13.5	--	61	62.0	0.0	--	--
JAN								
10...	1300	8.5	2	130	76.0	0.01	1	2
MAR								
17...	1555	13.0	20	1910	106	361	--	--
APR								
17...	1230	14.0	--	86	61.0	0.0	--	--
MAY								
13...	1230	20.5	--	33	49.0	0.0	--	--
JUN								
20...	1630	--	--	6.4	33.0	0.0	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
DEC							
09...	--	--	--	--	--	--	--
JAN							
10...	4	20	85	94	95	100	--
MAR							
17...	--	5	47	84	93	98	100
APR							
17...	--	--	--	--	--	--	--
MAY							
13...	--	--	--	--	--	--	--
JUN							
20...	--	--	--	--	--	--	--

SALINAS RIVER BASIN

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

LOCATION.--Lat 35°45'41", long 120°51'16", in NE 1/4 NE 1/4 sec.14, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, Camp Roberts Military Reservation, on left bank 2.2 mi downstream from Nacimiento Dam, and 7.6 mi southwest of Bradley.

DRAINAGE AREA.--329 mi².

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR CA-84-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 597 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for discharges below 20 ft³/s, which are fair. Flow regulated by Nacimiento Dam (station 11149300), 2.2 mi upstream. No diversion upstream from station.

AVERAGE DISCHARGE (unadjusted).--29 years, 297 ft³/s, 215,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft³/s, Feb. 25, 1969, gage height, 10.92 ft; no flow for many days in 1958-63, 1965 and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,500 ft³/s, Mar. 17, gage height, 9.16 ft; minimum daily, 0.49 ft³/s, Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	93	8.0	13	15	18	6.3	36	110	361	369	370
2	347	94	9.5	13	15	18	5.3	39	110	360	366	369
3	347	94	7.1	14	15	18	5.3	40	111	360	365	366
4	345	95	6.8	14	15	17	4.6	39	141	357	365	365
5	343	69	6.5	13	15	18	5.0	39	161	355	364	363
6	341	68	6.3	14	14	18	6.1	39	162	354	362	361
7	340	68	6.2	15	14	18	4.9	40	196	352	361	360
8	338	67	6.1	15	14	20	4.8	40	209	352	360	357
9	338	67	5.9	15	14	19	4.8	40	148	352	358	343
10	336	67	5.4	15	14	21	4.3	40	105	352	356	316
11	287	65	5.4	15	14	20	4.9	39	145	352	356	315
12	338	40	4.9	14	18	272	4.3	39	217	352	355	314
13	342	3.0	4.5	14	19	2220	3.5	40	217	351	353	313
14	245	11	4.5	14	23	1880	3.5	40	217	350	352	312
15	381	19	4.3	14	25	1430	4.1	39	217	348	352	312
16	382	8.5	4.3	14	19	4450	3.3	39	217	347	352	311
17	380	9.2	4.3	14	18	4470	3.2	39	89	347	350	310
18	364	13	4.0	14	18	2950	3.3	39	34	346	347	308
19	321	29	3.9	14	23	946	3.4	39	168	344	347	308
20	319	.70	3.6	14	19	351	2.2	40	366	343	364	307
21	320	.64	3.2	15	18	182	1.7	40	368	343	382	304
22	316	1.7	3.1	14	18	11	3.0	40	366	342	381	304
23	306	33	3.1	14	18	8.4	16	40	365	341	378	303
24	250	33	3.6	14	18	7.3	52	40	365	343	378	302
25	250	1.5	14	14	18	7.2	51	40	365	375	377	299
26	250	.61	12	14	18	6.5	52	40	365	374	374	299
27	249	.49	14	14	18	6.6	52	39	363	374	374	299
28	249	6.7	14	14	18	6.7	34	84	361	372	372	297
29	154	7.8	14	14	---	6.8	33	110	361	370	370	285
30	92	8.2	14	15	---	7.0	37	110	361	370	370	261
31	92	---	14	16	---	6.9	---	110	---	370	370	---
TOTAL	9312	1074.04	220.5	440	485	19430.4	418.8	1478	6980	11009	11280	9633
MEAN	300	35.8	7.11	14.2	17.3	627	14.0	47.7	233	355	364	321
MAX	382	95	14	16	25	4470	52	110	368	375	382	370
MIN	92	.49	3.1	13	14	6.5	1.7	36	34	341	347	261
AC-FT	18470	2130	437	873	962	38540	831	2930	13840	21840	22370	19110
CAL YR 1985	TOTAL	81503.74	MEAN	223	MAX	547	MIN	.49	AC-FT	161700		
WTR YR 1986	TOTAL	71760.74	MEAN	197	MAX	4470	MIN	.49	AC-FT	142300		

SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, Hydrologic Unit 18060005, on downstream side of highway bridge, 0.4 mi upstream from Tule Canyon, and 3.3 mi south of Lockwood.

DRAINAGE AREA.--217 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR CA-82-2: Drainage area, gage datum.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 795.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1975, at datum 5.00 ft. higher.

REMARKS.--Estimated daily discharges: Mar. 12-13 and July 28-29. Records fair except for periods of estimated daily discharge, which are poor. No regulation; some pumping above station.

AVERAGE DISCHARGE.--21 years, 124 ft³/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s, Jan. 26, 1969, gage height, 8.25 ft, datum then in use; maximum gage height, 12.64 ft, from floodmarks, Jan. 26, 1983; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*), from rating curve extended above 6,000 ft³/s on basis of contracted-opening measurement at gage height 12.6 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	2030	1,970	8.56	Mar. 8	1145	5,930	10.60
Jan. 4	2045	3,390	9.50	Mar. 12	0630	6,540	10.80
Feb. 15	1515	10,300	11.93	Mar. 15	1515	7,260	11.02
Feb. 18	0215	*10,700	*12.02				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	87	26	421	555	357	82	31	11		
2		0	782	22	277	476	331	81	32	10		
3		0	464	21	237	425	310	79	30	9.5		
4		0	213	910	200	388	296	78	29	8.8		
5		0	151	967	157	353	288	78	30	8.6		
6		0	122	438	132	323	287	77	29	8.3		
7		0	101	266	117	292	277	75	29	8.3		
8		0	84	193	100	1870	252	71	27	8.2		
9		0	68	162	105	898	237	69	26	7.6		
10		0	60	139	96	2190	223	67	24	7.2		
11		0	61	125	85	1370	208	64	22	7.2		
12		0	57	111	1970	2200	192	63	21	6.1		
13		0	50	95	4910	1200	180	62	20	5.5		
14		0	46	82	4990	1040	169	60	20	4.8		
15		0	42	78	7120	2460	157	57	20	4.1		
16		0	37	69	3790	2990	150	54	19	3.8		
17		0	33	64	3580	1830	143	53	18	3.7		
18		0	31	62	5460	1490	136	52	17	3.5		
19		0	29	62	5590	1270	128	49	17	3.1		
20		0	28	54	2630	1070	124	48	17	2.8		
21		0	27	49	1760	938	121	46	17	2.1		
22		0	26	47	1470	826	116	45	16	1.9		
23		0	24	48	1250	751	113	44	15	3.2		
24		0	23	44	1060	704	108	44	15	2.9		
25		25	22	44	929	642	105	43	14	2.5		
26		108	21	46	813	593	102	41	14	2.5		
27		49	20	39	718	542	98	39	13	2.1		
28		26	19	36	641	503	94	37	12	.93		
29		109	19	37	---	462	91	36	11	.04		
30		184	22	93	---	427	87	35	11	0		
31		---	29	270	---	382	---	35	---	0		---
TOTAL	0	501	2798	4699	50608	31460	5480	1764	616	150.27	0	0
MEAN	0	16.7	90.3	152	1807	1015	183	56.9	20.5	4.85	0	0
MAX	0	184	782	967	7120	2990	357	82	32	11	0	0
MIN	0	0	19	21	85	292	87	35	11	0	0	0
AC-FT	0	994	5550	9320	100400	62400	10870	3500	1220	298	0	0

SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER TEMPERATURE: Water years 1966-73.

SEDIMENT DATA: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1965 to September 1973.

SUSPENDED-SEDIMENT DISCHARGE: October 1965 to September 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 7,420 mg/L, Dec. 6, 1966; minimum daily mean, no flow many days in each year.

SEDIMENT LOAD: Maximum daily, 161,000 tons, Dec. 6, 1966; minimum daily, 0 ton many days in each year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC											
05...	1220	149	14.0	46	19	67	--	--	--	--	--
JAN											
09...	1415	161	14.5	33	14	41	--	--	--	--	--
FEB											
11...	1215	86	9.5	14	3.3	55	--	--	--	--	--
13...	1330	3300	13.0	1360	12100	42	55	71	90	99	100
MAR											
13...	1200	1140	11.5	728	2240	19	--	--	--	--	--
MAY											
13...	1405	62	26.5	23	3.9	--	--	--	--	--	--
JUN											
20...	1310	18	--	12	0.58	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
					% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM
FEB							
11...	1346	9.5	1	86	--	2	12
11...	1348	9.5	1	86	--	1	17
11...	1350	9.5	1	86	--	3	16
11...	1352	9.5	1	86	--	--	19
11...	1354	9.5	1	86	--	2	12
13...	1700	13.0	5	2570	--	1	7
APR							
15...	1400	19.0	11	152	1	3	12
DATE	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM	% FINER THAN 32.0 MM	% FINER THAN 64.0 MM
FEB							
11...	26	39	53	67	80	88	100
11...	48	71	81	86	91	100	--
11...	30	41	56	73	88	92	100
11...	86	99	100	--	--	--	--
11...	23	35	48	59	80	89	100
13...	32	58	76	86	96	100	--
APR							
15...	32	51	64	73	87	99	100

SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

						SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)			
DEC 05...	1325	14.0	20	149	134	98	--	2
JAN 09...	1445	14.5	20	158	135	130	--	1
FEB 11...	1310	9.5	31	86	105	144	--	1
MAR 13...	1310	11.5	20	1220	214	1210	1	6
APR 15...	1320	19.0	20	152	99.0	96	--	4
MAY 14...	1200	21.0	21	61	65.0	54	--	2
JUN 20...	1345	--	15	18	31.0	42	--	2
DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
DEC 05...	24	62	85	93	96	99	100	--
JAN 09...	16	58	84	94	97	100	--	--
FEB 11...	18	61	86	94	97	99	99	100
MAR 13...	25	56	76	86	92	98	100	--
APR 15...	27	60	83	92	96	99	100	--
MAY 14...	25	66	87	94	98	100	--	--
JUN 20...	29	77	94	97	99	100	--	--

SALINAS RIVER BASIN

11150500 SALINAS RIVER NEAR BRADLEY, CA

LOCATION.--Lat 35°55'49", long 120°52'04", in SW 1/4 NW 1/4 sec.14, T.23 S., R.10 E., Monterey County, Hydrologic Unit 18060005, on left bank 6 mi northwest of Bradley, and 7 mi downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi².

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1950. WDR CA-84-2: 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 442.69 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Mar. 3-8 and Apr. 19 to May 6. Records good except for estimated daily discharges, which are fair. Flow regulated by Santa Margarita Lake (station 11144500); Lake Nacimiento, formerly Nacimiento Reservoir, beginning in February 1957, usable capacity, 340,000 acre-ft; and Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions upstream from station.

AVERAGE DISCHARGE (unadjusted).--38 years, 501 ft³/s, 363,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft³/s, Feb. 24, 1969, gage height, 20.34 ft, from floodmarks; no flow at times in 1951, 1954-55, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft³/s, Mar. 16, gage height, 11.89 ft; minimum daily, 21 ft³/s, Dec. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	389	215	49	52	29	1100	300	96	109	449	404	384
2	401	195	52	47	29	985	285	91	110	455	407	380
3	413	190	52	44	27	710	273	85	110	434	394	381
4	417	182	50	44	27	610	247	82	110	423	389	369
5	426	185	46	43	28	540	228	79	138	381	384	345
6	413	175	42	38	31	510	227	74	148	374	363	335
7	414	172	38	36	31	480	251	68	159	357	380	362
8	458	170	36	33	32	600	230	64	201	364	391	370
9	479	171	34	33	33	2890	219	62	203	371	394	364
10	429	183	32	33	33	3100	209	60	193	379	399	338
11	402	198	30	33	33	5780	200	58	216	362	406	337
12	362	190	28	33	45	5050	189	54	295	353	411	335
13	395	149	27	32	1800	5420	182	52	335	353	412	333
14	389	111	25	31	3310	6690	181	51	331	338	412	331
15	333	99	24	31	5500	2900	175	51	333	317	411	335
16	438	101	24	31	2500	10600	166	49	333	326	420	328
17	447	93	23	31	1460	10700	159	47	399	335	428	311
18	447	94	21	31	3480	7890	154	44	272	337	412	302
19	429	99	21	31	5500	3910	152	39	268	327	377	302
20	426	131	21	31	5460	2450	150	36	470	339	381	308
21	439	165	84	31	3920	2050	144	34	578	360	426	311
22	413	179	191	31	3410	1800	138	31	577	376	433	310
23	403	182	198	30	3050	1310	132	31	572	385	429	316
24	391	211	159	29	2400	886	126	30	567	371	428	328
25	363	232	168	27	1720	823	120	30	557	390	436	326
26	347	134	165	27	1510	761	115	28	534	407	442	320
27	353	72	102	26	1130	596	112	26	456	403	417	310
28	364	54	87	26	1100	592	112	24	452	395	397	299
29	362	50	86	26	---	586	110	74	451	393	393	292
30	259	50	85	28	---	553	104	103	449	389	384	281
31	233	---	63	30	---	374	---	108	---	397	383	---
TOTAL	12234	4432	2063	1029	47628	83046	5390	1761	9926	11640	12543	9943
MEAN	395	148	66.5	33.2	1701	2679	180	56.8	331	375	405	331
MAX	479	232	198	52	5500	10700	300	108	578	455	442	384
MIN	233	50	21	26	27	374	104	24	109	317	363	281
AC-FT	24270	8790	4090	2040	94470	164700	10690	3490	19690	23090	24880	19720
CAL YR 1985	TOTAL	109864	MEAN 301	MAX 774	MIN 13	AC-FT 217900						
WTR YR 1986	TOTAL	201635	MEAN 552	MAX 10700	MIN 21	AC-FT 399900						

SALINAS RIVER BASIN

11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CA

LOCATION.--Lat 36°16'05", long 121°03'55", in NE 1/4 sec.23, T.19 S., R.8 E., Monterey County, Hydrologic Unit 18060005, on left bank 1.3 mi downstream from Bitterwater Creek, 5 mi northeast of King City, and 10 mi upstream from mouth.

DRAINAGE AREA.--233 mi².

PERIOD OF RECORD.--October 1958 to current year.

REVISED RECORDS.--WDR CA-85-2: 1969-84 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 431.64 ft above National Geodetic Vertical Datum of 1929. October 1958 to Apr. 24, 1967, at site 500 ft upstream at datum 5.00 ft higher. Apr. 25, 1967, to July 12, 1981, at site 200 ft upstream.

REMARKS.--Estimated daily discharges: Oct. 8 to Nov. 8. Records fair except for estimated daily discharges, which are poor. No regulation; small diversions upstream from station by ranchers and sand-processing plant.

AVERAGE DISCHARGE.--28 years, 14.9 ft³/s, 10,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s, Jan. 25, 1969, gage height, 15.33 ft, in gage well, 16.2 ft, from floodmarks, from rating curve extended above 7,100 ft³/s on basis of slope-area measurement of peak flow; no flow many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	2345	1,730	8.28	Mar. 10	1900	333	5.43
Feb. 19	0845	1,730	8.27	Mar. 15	1800	*2,020	*8.70

Minimum daily, 0.38 ft³/s, July 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.8	12	3.5	17	28	6.4	3.5	.81	.76	.40	1.6
2	1.9	1.8	11	3.2	11	24	6.0	3.1	1.0	.70	.40	1.9
3	1.6	1.8	32	3.2	7.9	21	5.5	3.4	1.0	.70	.42	2.8
4	1.3	1.8	14	4.7	10	20	5.5	4.5	1.0	.70	.41	3.1
5	1.2	1.7	8.0	29	8.4	19	5.9	4.6	1.0	.58	.43	2.6
6	1.1	1.7	5.8	22	6.4	19	11	4.0	1.0	.56	.60	2.2
7	1.2	1.7	4.7	9.7	5.5	18	13	3.8	.95	.60	.68	2.0
8	1.4	1.7	4.4	6.5	5.2	59	15	3.4	.92	.71	.61	2.8
9	1.5	1.9	3.9	5.1	5.0	64	12	2.8	.92	.64	.64	3.4
10	1.5	2.4	3.5	4.3	5.0	113	11	2.1	.92	.52	.66	2.9
11	1.4	5.4	3.5	3.9	4.6	107	9.8	1.8	.92	.52	.67	3.2
12	1.4	7.2	3.5	3.8	9.0	70	8.5	1.6	.92	.52	.63	3.3
13	1.3	4.3	3.2	3.5	274	109	8.5	1.4	.92	.51	.63	3.3
14	1.3	3.2	3.1	3.5	351	93	9.0	1.3	.92	.45	.59	2.9
15	1.2	2.9	3.1	3.6	633	442	8.9	1.2	.92	.45	1.3	3.0
16	1.2	2.6	3.1	3.8	126	531	12	1.2	.92	.47	1.9	3.7
17	1.1	2.6	3.3	3.7	65	188	11	1.2	.92	.46	1.5	5.3
18	1.1	2.4	3.1	3.1	83	77	9.6	1.1	.91	.48	1.3	4.2
19	1.1	2.1	3.1	3.1	391	58	8.9	1.0	.86	.52	1.3	3.0
20	1.1	2.1	3.1	3.1	96	49	7.7	1.0	.86	.50	1.1	2.4
21	5.4	2.3	3.1	3.1	57	41	6.9	.94	.92	.43	2.4	2.3
22	4.2	2.1	3.1	3.1	48	35	6.0	.98	.87	.38	2.3	2.4
23	3.2	2.2	3.1	3.1	41	29	6.3	1.0	.86	.47	2.7	2.0
24	2.8	4.3	3.1	3.3	41	24	6.7	1.1	.92	.68	2.5	3.4
25	2.5	7.4	3.1	3.1	38	19	6.1	1.0	.85	.67	2.2	5.2
26	2.3	6.0	3.1	3.1	35	15	5.6	1.0	.70	.59	1.9	3.8
27	2.2	4.9	2.9	3.1	31	12	5.0	.92	.68	.56	1.4	3.7
28	2.1	3.8	2.8	3.3	30	8.8	4.2	.92	.73	.55	2.3	4.2
29	2.0	4.8	3.0	3.5	---	7.5	3.8	.92	.70	.56	2.0	5.4
30	1.9	22	3.7	5.1	---	7.0	3.8	.80	.74	.51	2.2	7.0
31	1.9	---	3.7	6.3	---	6.5	---	.80	---	.41	2.2	---
TOTAL	57.3	112.9	166.1	166.4	2435.0	2313.8	239.6	58.38	26.56	17.16	40.27	99.0
MEAN	1.85	3.76	5.36	5.37	87.0	74.6	7.99	1.88	.89	.55	1.30	3.30
MAX	5.4	22	32	29	633	531	15	4.6	1.0	.76	2.7	7.0
MIN	1.1	1.7	2.8	3.1	4.6	6.5	3.8	.80	.68	.38	.40	1.6
AC-FT	114	224	329	330	4830	4590	475	116	53	34	80	196

CAL YR 1985 TOTAL 1182.34 MEAN 3.24 MAX 32 MIN .27 AC-FT 2350

SALINAS RIVER BASIN

11151700 SALINAS RIVER AT SOLEDAD, CA

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County, Hydrologic Unit 18060005, near right bank on upstream end of pier on U.S. Highway 101, 0.9 mi south of Soledad, and 1 mi upstream from Arroyo Seco River.

DRAINAGE AREA.--3,563 mi².

PERIOD OF RECORD.--October 1968 to September 1978, October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Santa Margarita Lake (station 11144500); Lake Nacimiento, formerly Nacimiento Reservoir, beginning in February 1957, usable capacity, 340,000 acre-ft; and by Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions upstream from station.

AVERAGE DISCHARGE (unadjusted).--13 years (water years 1969-78, 1984-86), 479 ft³/s, 347,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft³/s, Feb. 25, 1969, gage height, 23.31 ft; maximum gage height, 23.39 ft, Jan. 26, 1969; no flow Mar. 9-16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,980 ft³/s, Mar. 17, gage height, 16.06 ft; minimum daily, 5.6 ft³/s, June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	150	59	65	51	971	765	153	17	224	99	171
2	173	128	66	61	52	872	639	132	16	209	97	172
3	169	117	64	55	53	784	583	124	15	195	101	163
4	162	111	59	58	51	625	530	117	14	189	114	150
5	156	102	59	59	51	500	483	116	12	199	117	145
6	158	93	55	55	51	415	462	108	11	206	111	144
7	168	89	55	52	51	377	445	99	10	195	103	148
8	173	74	55	48	51	390	424	90	9.7	177	101	161
9	200	63	53	48	51	316	411	82	10	158	100	166
10	216	76	52	48	51	1700	384	74	7.5	143	115	160
11	215	105	49	47	51	3190	356	71	6.4	132	138	144
12	192	128	46	47	87	4810	336	73	5.9	123	135	136
13	184	117	45	47	664	4850	322	68	6.0	115	126	126
14	184	106	45	47	1000	5650	311	63	5.9	126	112	124
15	189	93	45	45	4850	5440	293	60	6.7	119	104	133
16	172	80	45	41	5420	6700	288	55	7.3	109	99	135
17	175	69	45	41	2950	9540	281	49	5.6	95	100	135
18	208	61	45	42	2590	8130	275	44	9.2	87	122	131
19	226	55	45	41	4660	5550	262	40	24	87	115	122
20	244	48	45	41	5640	3720	227	38	25	90	105	118
21	261	46	45	43	4400	3180	216	35	21	104	111	117
22	269	52	45	40	3350	2870	194	33	56	112	124	125
23	268	69	45	36	2940	2450	185	31	128	109	139	124
24	268	104	68	34	2680	2070	177	29	174	103	155	133
25	272	141	93	34	2170	1650	166	28	196	100	174	143
26	256	146	103	34	1700	1460	165	26	207	104	175	143
27	237	144	109	33	1470	1330	166	25	221	122	175	149
28	234	111	107	32	1130	1120	172	22	208	140	177	160
29	230	88	87	32	---	999	171	20	208	141	170	164
30	214	70	76	40	---	926	169	17	230	126	159	161
31	194	---	69	48	---	862	---	16	---	112	166	---
TOTAL	6442	2836	1879	1394	48265	83447	9858	1938	1873.2	4251	3939	4303
MEAN	208	94.5	60.6	45.0	1724	2692	329	62.5	62.4	137	127	143
MAX	272	150	109	65	5640	9540	765	153	230	224	177	172
MIN	156	46	45	32	51	316	165	16	5.6	87	97	117
AC-FT	12780	5630	3730	2760	95730	165500	19550	3840	3720	8430	7810	8530
CAL YR 1985	TOTAL	41108.7	MEAN 113	MAX 272	MIN 6.8	AC-FT 81540						
WTR YR 1986	TOTAL	170425.2	MEAN 467	MAX 9540	MIN 5.6	AC-FT 338000						

SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA

LOCATION.--Lat 36°14'15", long 121°28'50", in NE 1/4 SE 1/4 sec.36, T.19 S., R.4 E., Monterey County, Hydrologic Unit 18060005, on right bank 0.6 mi downstream from Rocky Creek, and 14.5 mi southwest of Greenfield.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 780 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 27, 1970, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Sept. 26-30. Records fair except for summer months, which are poor. No regulation, small diversion for fishponds upstream from station.

AVERAGE DISCHARGE.--25 years, 173 ft³/s, 125,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft³/s, Dec. 6, 1966, gage height, 14.50 ft, at datum then in use, from rating curve extended above 5,700 ft³/s on basis of slope-area measurement at gage-height 12.65 ft, present datum; maximum gage height, 16.34 ft, Feb. 7, 1978; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	1445	3,900	10.18	Mar. 8	0715	7,700	11.72
Feb. 14	1700	10,600	12.58	Mar. 15	1115	5,660	10.98
Feb. 19	0230	*13,000	*13.17				

Minimum daily, 4.3 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	7.4	118	41	486	447	367	112	56	30	17	9.4
2	5.8	7.5	1820	39	441	402	347	113	55	27	16	9.2
3	5.3	7.5	572	39	367	366	326	115	55	26	14	8.8
4	4.7	7.7	258	751	305	337	306	115	54	27	16	8.1
5	4.4	7.5	173	584	252	311	311	111	55	27	13	7.0
6	4.4	7.5	130	292	218	288	304	110	54	29	14	7.9
7	4.3	7.7	108	204	191	291	277	111	53	27	14	12
8	4.7	7.9	93	159	171	2790	257	106	49	26	14	10
9	5.3	7.7	83	134	153	1300	244	102	47	27	14	12
10	5.6	90	75	117	140	2910	231	99	45	24	13	10
11	5.7	74	69	105	129	2090	218	98	43	22	12	10
12	5.6	32	64	96	2420	2020	210	97	42	22	12	11
13	5.6	24	61	89	3420	1740	198	93	42	22	12	13
14	5.6	21	58	86	5050	1400	187	88	41	21	13	14
15	5.5	19	55	87	5680	2580	181	86	40	21	15	13
16	5.4	18	52	78	3620	2650	181	84	40	20	15	17
17	5.5	18	50	74	3910	2080	176	81	40	22	10	21
18	5.6	17	48	71	5400	1670	165	78	40	25	10	23
19	5.9	17	47	68	6080	1380	159	75	39	23	9.7	21
20	6.2	17	45	66	3250	1160	151	76	37	20	9.9	15
21	15	18	44	63	2210	1000	147	76	36	17	10	19
22	14	18	43	60	1630	879	146	75	36	15	9.3	17
23	9.2	18	41	60	1250	774	142	74	39	22	8.4	17
24	8.5	323	40	58	994	696	138	70	38	22	7.9	22
25	7.7	600	39	56	807	629	135	68	36	21	8.5	29
26	7.4	140	38	54	669	566	131	67	35	20	8.2	23
27	7.1	75	38	52	559	523	128	65	34	19	8.2	21
28	7.1	66	37	51	481	478	124	63	33	16	8.4	19
29	7.1	487	39	51	---	436	120	62	33	16	9.0	18
30	7.3	227	48	331	---	419	116	60	32	15	9.0	17
31	7.4	---	46	815	---	400	---	58	---	12	8.4	---
TOTAL	204.7	2387.4	4432	4831	50283	35012	6123	2688	1279	683	358.9	454.4
MEAN	6.60	79.6	143	156	1796	1129	204	86.7	42.6	22.0	11.6	15.1
MAX	15	600	1820	815	6080	2910	367	115	56	30	17	29
MIN	4.3	7.4	37	39	129	288	116	58	32	12	7.9	7.0
AC-FT	406	4740	8790	9580	99740	69450	12140	5330	2540	1350	712	901

CAL YR 1985	TOTAL	22116.0	MEAN	60.6	MAX	1820	MIN	2.0	AC-FT	43870
WRT YR 1986	TOTAL	108736.4	MEAN	298	MAX	6080	MIN	4.3	AC-FT	215700

SALINAS RIVER BASIN

11152000 ARROYO SECO NEAR SOLEDAD, CA

LOCATION.--Lat 36°16'50", long 121°19'18", in SW 1/4 NE 1/4 sec.16, T.19 S., R.6 E., Monterey County, Hydrologic Unit 18060005, on right bank under county road bridge, 1.5 mi downstream from Vaquero Creek, and 10 mi south of Soledad.

DRAINAGE AREA.--244 mi².

PERIOD OF RECORD.--November 1901 to current year. Records for water year 1902 incomplete, yearly estimate published in WSP 1315-B.

REVISED RECORDS.--WSP 881: 1902-9 (yearly summary only). WSP 1565: 1916-19, 1920-21(M), 1922, 1926-27, 1928-30(M), 1932, 1934, 1936(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 339.20 ft above National Geodetic Vertical Datum of 1929. Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or large diversion upstream from station.

AVERAGE DISCHARGE.--85 years, 173 ft³/s, 125,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s, Apr. 3, 1958, gage height, 16.40 ft, at datum then in use, from rating curve extended above 12,000 ft³/s on basis of slope-area measurement at gage height 16.30 ft; no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	1715	2,920	5.75	Mar. 8	0915	6,230	7.60
Feb. 14	1900	12,500	10.90	Mar. 15	1330	6,430	7.72
Feb. 19	0500	*13,100	*11.13				

Minimum daily, 0.90 ft³/s, Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	6.1	162	49	548	539	483	157	67	33	18	12
2	4.1	6.1	1360	46	432	489	446	153	67	32	17	11
3	4.3	6.1	765	45	369	446	419	153	66	31	17	11
4	3.9	6.6	374	482	323	409	396	153	66	30	16	11
5	2.9	7.6	256	658	265	377	400	152	65	30	16	11
6	2.2	9.3	199	344	231	352	418	148	64	31	15	11
7	1.5	10	166	245	202	337	387	146	63	32	14	11
8	.96	16	142	194	182	2590	350	140	62	33	14	10
9	.90	21	126	163	184	1500	327	135	58	30	15	10
10	1.5	35	112	143	150	3290	310	127	57	29	15	11
11	2.8	173	103	127	139	2340	295	124	55	27	15	11
12	3.7	64	95	116	1510	2240	281	120	53	26	14	11
13	4.1	42	92	105	4040	2000	273	118	53	26	14	12
14	3.5	34	90	99	5380	1540	260	113	51	26	14	13
15	3.3	29	86	101	5710	2860	250	109	51	25	14	13
16	3.3	27	80	92	2840	3170	246	106	51	24	14	15
17	4.6	25	75	86	2540	2510	238	103	49	24	14	16
18	4.4	24	65	81	4700	2170	227	98	48	25	14	19
19	5.1	24	62	78	6540	1800	215	96	48	26	13	19
20	6.2	24	58	74	3500	1550	209	93	46	25	13	18
21	11	27	57	72	2310	1310	207	93	45	23	13	18
22	24	30	55	68	1650	1180	200	97	43	22	13	18
23	19	31	53	66	1290	1080	197	95	42	23	13	19
24	12	172	50	64	1080	945	192	91	40	25	12	20
25	9.4	644	49	62	913	836	186	87	38	25	12	27
26	7.7	222	46	59	787	772	183	84	37	25	11	28
27	6.3	113	46	59	680	703	175	83	37	25	11	26
28	6.1	81	43	56	604	643	170	80	36	24	11	26
29	6.1	342	43	54	---	601	168	76	35	23	11	25
30	6.2	302	52	241	---	561	164	71	33	21	11	23
31	6.1	---	58	715	---	524	---	69	---	20	12	---
TOTAL	180.56	2553.8	5020	4844	49079	41664	8272	3470	1526	821	426	486
MEAN	5.82	85.1	162	156	1753	1344	276	112	50.9	26.5	13.7	16.2
MAX	24	644	1360	715	6540	3290	483	157	67	33	18	28
MIN	.90	6.1	43	45	139	337	164	69	33	20	11	10
AC-FT	358	5070	9960	9610	97350	82640	16410	6880	3030	1630	845	964
CAL YR 1985	TOTAL	23959.29	MEAN	65.6	MAX	1360	MIN	.54	AC-FT	47520		
WTR YR 1986	TOTAL	118342.36	MEAN	324	MAX	6540	MIN	.90	AC-FT	234700		

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°33'14", long 121°32'53", in Guadalupe Y Llanitos de Los Correos Grant, Monterey County, Hydrologic Unit 18060005, near left bank on downstream side of bridge on Chualar-River Road, and 2 mi southwest of Chualar.

DRAINAGE AREA.--4,042 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REVISED RECORDS.--WDR CA-85-2: 1983-84(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 68.00 ft above National Geodetic Vertical Datum of 1929. Prior to January 1979, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 21-22 and May 19-29. Records fair. Daily discharge prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow regulated by Santa Margarita Lake (station 11144500); Lake Nacimiento, formerly Nacimiento Reservoir, beginning in February 1957, usable capacity, 340,000 acre-ft; and Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Large withdrawals from ground-water and small surface-water diversions for municipal use and for irrigation upstream from station.

AVERAGE DISCHARGE.--10 years, 686 ft³/s, 497,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft³/s, Mar. 3, 1983, gage height, 14.92 ft; no flow at times during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,700 ft³/s, Feb. 15, gage height, 12.09 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	95	98	33	70	1810	994	177	9.7	93	22	65
2	59	74	55	31	186	1620	850	163	9.0	86	14	68
3	59	61	539	29	137	1490	757	153	8.3	80	12	69
4	55	53	384	34	130	1290	692	148	6.3	74	18	66
5	52	47	148	41	114	1120	649	144	4.4	76	22	60
6	51	41	85	175	88	949	655	139	2.0	80	20	55
7	55	36	64	88	71	842	644	133	0	83	12	54
8	60	31	54	54	58	1860	607	122	0	74	4.4	65
9	63	25	47	41	48	2880	576	111	0	65	2.9	66
10	72	29	42	34	39	4090	542	100	0	56	2.4	65
11	80	35	37	30	34	5650	503	91	0	49	17	62
12	82	40	33	26	39	8170	468	79	0	45	28	58
13	78	45	29	25	2130	6840	448	72	0	38	26	51
14	75	44	26	24	3280	7410	432	66	0	37	22	46
15	75	41	23	23	15700	9100	411	61	0	36	18	50
16	77	36	20	20	11600	8500	394	56	0	31	16	55
17	71	31	18	18	6200	11800	374	49	0	26	16	53
18	72	26	16	14	9070	8310	355	45	0	20	23	55
19	85	22	15	13	12200	5410	334	41	0	16	32	52
20	95	18	14	12	10300	3230	314	37	0	14	28	49
21	113	14	11	11	7200	3660	300	34	0	16	24	47
22	119	11	10	10	4940	3600	282	31	0	21	26	52
23	123	14	8.4	10	4060	3090	266	28	0	23	34	60
24	125	29	7.6	8.7	3640	2740	253	26	0	19	43	68
25	125	48	20	7.4	3140	2210	237	24	26	17	51	75
26	128	117	36	6.5	2630	1910	224	22	62	15	60	73
27	123	99	42	5.6	2370	1720	213	20	77	17	62	79
28	117	78	45	5.0	2020	1480	210	19	85	27	64	84
29	114	71	45	5.0	---	1300	201	18	78	35	65	92
30	111	71	41	5.4	---	1180	189	14	88	33	60	96
31	106	---	37	7.2	---	1100	---	12	---	28	59	---
TOTAL	2676	1382	2050.0	846.8	101494	116361	13374	2235	455.7	1330	903.7	1890
MEAN	86.3	46.1	66.1	27.3	3625	3754	446	72.1	15.2	42.9	29.2	63.0
MAX	128	117	539	175	15700	11800	994	177	88	93	65	96
MIN	51	11	7.6	5.0	34	842	189	12	0	14	2.4	46
AC-FT	5310	2740	4070	1680	201300	230800	26530	4430	904	2640	1790	3750

CAL YR 1985 TOTAL 15900.99 MEAN 43.6 MAX 1050 MIN 0 AC-FT 31540
WTR YR 1986 TOTAL 244998.20 MEAN 671 MAX 15700 MIN 0 AC-FT 486000

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

CHEMICAL DATA: Water years 1977 to current year.

BIOLOGICAL DATA: Water years 1977-81.

SPECIFIC CONDUCTANCE: Water years 1977-81.

WATER TEMPERATURE: Water years 1977-81.

SEDIMENT DATA: Water years 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1977 to September 1981.

WATER TEMPERATURE: January 1977 to September 1981.

INSTRUMENTATION.--Water-quality monitor from January 1977 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)
NOV 12...	1230	40	550	8.50	11.0	760	2.6	12.4	113	K7	K3	230
JAN 22...	1230	11	843	8.50	13.0	765	1.3	12.0	114	<1	--	330
MAR 24...	1400	2750	469	8.20	15.5	765	35	9.6	96	K38	K62	180
MAY 12...	1245	77	1070	8.40	22.0	760	2.0	9.0	104	K6	K12	390
JUL 15...	1145	36	533	8.60	22.5	760	9.0	9.9	115	K5	K18	200
SEP 09...	1200	65	412	8.30	20.0	760	16	10.1	112	K5	K20	160
DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO3	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	CAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LITY, CARBON- ATE TOTAL IT-FLD (MG/L AS CaCO3)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CaCO3	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 12...	60	54	23	32	23	0.9	1.7	194	7	170	170	91
JAN 22...	130	75	35	60	28	1	3.0	225	13	206	207	180
MAR 24...	45	46	17	22	20	0.7	2.5	170	--	139	140	75
MAY 12...	180	92	39	74	29	2	3.8	238	12	215	214	250
JUL 15...	57	46	20	34	27	1	2.2	153	9	140	140	90
SEP 09...	33	37	16	24	25	0.9	1.7	140	7	126	125	61
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
NOV 12...	26	0.20	16	338	350	0.46	37	<0.010	0.480	0.060	0.030	0.50
JAN 22...	53	0.20	15	563	560	0.77	17	0.050	3.00	--	0.040	0.60
MAR 24...	18	0.20	20	298	280	0.41	2210	--	--	--	--	--
MAY 12...	64	0.20	21	708	670	0.96	147	0.030	5.00	0.060	0.050	0.60
JUL 15...	26	0.20	14	330	320	0.45	32	0.010	0.650	0.050	0.050	0.60
SEP 09...	17	0.30	14	262	250	0.36	46	<0.010	0.230	0.030	0.030	0.70

See footnotes at end of table

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 12...	0.060	0.040	0.030	<10	2	49	<0.5	1	<1	<3	1	<3
JAN 22...	0.030	0.030	0.010	<10	1	73	<0.5	<1	<1	<3	1	4
MAR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	0.070	0.050	0.040	<10	2	87	<0.5	<1	<1	<3	3	4
JUL 15...	0.050	0.020	<0.010	--	--	--	--	--	--	--	--	--
SEP 09...	0.100	0.020	0.020	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 12...	<1	15	3	<0.1	<10	3	<1	<1	330	<6	4
JAN 22...	<1	19	7	0.8	<10	<1	3	<1	510	<6	5
MAR 24...	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	2	25	2	<0.1	<10	1	5	<1	560	<6	12
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside acceptable range (non-ideal colony count).

< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
24...*	1401	27.0	469	8.30	15.5	765	9.7	97	314	43
24...*	1405	50.0	468	8.20	15.5	765	9.6	96	401	34
24...*	1410	71.0	468	8.20	15.5	765	9.7	97	613	23
24...*	1415	95.0	470	8.20	16.0	765	9.6	97	515	28
24...*	1420	134	468	8.20	16.0	765	9.6	97	389	36
SEP										
09...*	1201	10.0	413	8.30	20.0	760	10.1	112	--	--
09...*	1205	32.0	412	8.30	20.0	760	10.1	112	--	--
09...*	1210	58.0	412	8.30	20.0	760	10.2	113	--	--

* Instantaneous streamflow at the time of cross-sectional measurements:

Mar. 24: 2750 ft³/sSep. 09: 65 ft³/s

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 12...	1220	41	10.5	9	1.0	--
JAN 22...	1215	11	13.0	4	0.12	--
MAR 24...	1325	2750	15.5	446	3310	33
MAY 12...	1315	77	22.0	32	6.7	86
JUL 15...	1130	38	22.5	36	3.7	89
SEP 09...	1145	65	20.0	61	11	89

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, Hydrologic Unit 18060005, on right bank on downstream side of bridge on Salinas-Monterey highway, 0.8 mi upstream from El Toro Creek, 1.6 mi northwest of Spreckels, and 2 mi south of Salinas.

DRAINAGE AREA.--4,156 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1900 to August 1901, October 1929 to current year. Records for water year 1930 incomplete, yearly estimate published in WSP 1315-B. Published as "near Salinas" 1900-1901.

REVISED RECORDS.--WSP 1565: 1930, 1935, 1945. WSP 1715: 1959. WDR CA-85-2: 1983.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 20.56 ft above National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi downstream at datum 0.69 ft lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages.

REMARKS.--Estimated daily discharges: Mar. 31 to Apr. 11, June 18-23 and June 26 to July 8. Records fair except for periods of estimated daily discharges, which are poor. Flow regulated by Santa Margarita Lake (station 11144500) beginning in 1941; Lake Nacimiento, formerly Nacimiento Reservoir, beginning in February 1957, usable capacity, 340,000 acre-ft; and by Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation of about 95,000 acres above station. Low flow represents waste from alisal sewage-disposal plant.

AVERAGE DISCHARGE.--57 years (water years 1930-86), 454 ft³/s, 328,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/s, Feb. 26, 1969, gage height, 26.51 ft, site and datum then in use; maximum gage height, 26.85 ft, Jan. 16, 1952, site and datum then in use, from floodmarks; no flow at times in 1929-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,400 ft³/s, Mar. 17, gage height, 15.08 ft; minimum daily, 0.12 ft³/s, Dec. 21-24, 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	90	23	.14	.51	1120	1210	178	2.7	41	2.1	3.7
2	1.0	82	59	.13	.50	1040	1090	159	2.4	43	2.6	3.6
3	1.5	61	34	.14	11	985	1020	142	2.3	42	2.7	4.0
4	1.7	34	381	.18	66	936	980	133	2.2	38	2.9	4.4
5	2.0	20	340	.18	80	898	910	122	2.1	36	2.9	5.1
6	2.1	9.0	140	.16	69	782	870	116	2.1	36	2.9	4.6
7	1.8	3.3	59	30	44	658	790	106	2.3	38	2.9	4.1
8	1.7	.78	28	45	27	722	750	98	2.2	40	3.0	4.1
9	1.7	.36	14	19	15	2280	690	87	2.2	29	3.3	4.2
10	1.9	.46	7.0	5.9	6.5	2230	650	77	2.3	22	3.0	4.1
11	2.1	.40	2.7	1.8	2.9	4100	590	66	2.2	13	3.0	4.0
12	2.4	.32	.89	.82	2.4	5920	564	59	2.3	6.6	3.4	4.1
13	2.1	.26	.41	.58	450	5340	530	57	2.3	3.3	3.4	4.2
14	2.0	.24	.25	.50	2640	5420	512	52	2.3	1.9	3.5	4.4
15	1.8	.22	.19	.47	6870	7400	491	46	2.4	1.7	3.0	3.4
16	2.0	.23	.16	.45	8770	7150	470	41	2.4	1.5	3.3	3.3
17	1.4	.26	.15	.46	6030	13300	443	36	2.3	1.4	3.2	3.2
18	1.3	.24	.14	.47	6360	11900	416	31	2.3	1.4	3.1	3.3
19	1.4	.21	.13	.47	7320	8160	389	25	2.2	1.6	3.3	3.3
20	1.5	.21	.13	.47	7500	4150	360	22	2.2	1.5	3.2	3.6
21	1.6	.22	.12	.45	6460	3260	339	18	2.1	1.4	3.1	3.7
22	.66	.20	.12	.45	5040	3150	318	14	2.1	1.4	3.1	3.6
23	.56	.23	.12	.46	4060	2890	297	11	2.0	1.6	3.6	3.4
24	.53	.40	.12	.46	3410	2620	283	8.8	2.1	1.7	3.4	4.1
25	19	.71	.13	.47	2760	2380	264	6.8	2.1	1.6	3.2	3.7
26	68	.41	.12	.49	2020	2200	254	5.1	3.0	1.7	3.2	3.8
27	84	.34	.12	.50	1540	2030	239	4.4	16	1.7	3.2	4.3
28	92	2.6	.13	.47	1280	1850	231	3.8	33	1.7	3.4	4.0
29	89	25	.14	.48	---	1620	218	3.5	38	1.7	3.5	3.8
30	90	32	.15	.49	---	1480	199	3.2	39	1.7	3.5	3.8
31	92	---	.15	.52	---	1320	---	2.7	---	1.9	3.6	---
TOTAL	571.50	365.60	1091.57	112.56	72834.81	109291	16367	1734.3	185.1	417.0	97.5	116.9
MEAN	18.4	12.2	35.2	3.63	2601	3526	546	55.9	6.17	13.5	3.15	3.90
MAX	92	90	381	45	8770	13300	1210	178	39	43	3.6	5.1
MIN	.53	.20	.12	.13	.50	658	199	2.7	2.0	1.4	2.1	3.2
AC-FT	1130	725	2170	223	144500	216800	32460	3440	367	827	193	232

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-54, 1958-79, October 1985 to May 1986 (discontinued).

CHEMICAL DATA: Water years 1952-54, 1958-70, 1972-79. Published incorrectly as station 11152300 "near Chualar" in 1967.

BIOLOGICAL DATA: Water years 1975-77.

SPECIFIC CONDUCTANCE: Water years 1975 to January 1977.

WATER TEMPERATURE: Water years 1967-79. Published incorrectly as station 11152300 "near Chualar" in 1967-69.

SEDIMENT DATA: Water years 1950-51, 1967-79, October 1985 to May 1986 (discontinued). Published incorrectly as station 11152300 "near Chualar" in 1967-69.

TURBIDITY: Water year 1973.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to January 1977.

WATER TEMPERATURE: December 1966 to September 1979.

SUSPENDED-SEDIMENT DISCHARGE: December 1966 to September 1979.

REMARKS.--Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 24,000 mg/L, Mar. 5, 1978; minimum daily mean, no flow for several days in 1968.

SEDIMENT LOAD: Maximum daily, 2,940,000 tons, Feb. 11, 1978; minimum daily, 0 ton several days in 1968.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
11...	1130	1.7	20.0	19	0.09	--
DEC						
05...	1415	307	14.0	15	12	88
JAN						
09...	1010	19	12.0	41	2.1	46
FEB						
15...	1500	9060	13.0	2920	71400	76
21...	1705	5940	14.0	1420	22800	66
25...	1245	2720	15.0	494	3630	32
MAR						
14...	1340	5210	13.0	1280	18000	38
19...	1540	7780	12.0	2140	45000	43
APR						
14...	1030	511	17.0	56	77	44
MAY						
07...	1145	105	16.5	11	3.1	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT										
11...	1135	20.0	5	1.7	2	6	50	95	99	100
FEB										
25...	1325	15.0	5	2710	3	19	85	99	100	--
MAR										
14...	1415	13.0	5	5180	1	17	83	100	--	--

SALINAS RIVER BASIN

11152540 EL TORO CREEK NEAR SPRECKELS, CA

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, Hydrologic Unit 18060005, on right bank 0.3 mi downstream from San Benancio Gulch, and 4.7 mi southwest of Spreckels.

DRAINAGE AREA.--31.9 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 210 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 16, 1983, at site 700 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Feb. 1-5, Feb. 16-18, Feb. 23 to Mar. 7, Mar. 9-10, Mar. 14, and Mar. 17 to Apr. 17. Records fair except for estimated daily discharges and flow less than 0.15 ft³/s, which are poor. No regulation or diversion upstream from station except for small stock ponds. Low flow at times affected by irrigation runoff from upstream golf course.

AVERAGE DISCHARGE.--25 years, 1.87 ft³/s, 1,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 630 ft³/s, Mar. 2, 1983, gage height, 6.10 ft, site and datum then in use, from rating curve extended above 93 ft³/s on basis of slope-area measurement at gage height 6.07 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*), from rating curve extended above 75 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1830	75	4.06	Mar. 8	0430	31	2.82
Feb. 19	0445	73	3.40	Mar. 15	1145	*238	*5.01

No flow Oct. 1-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.10	.22	.15	.25	.23	.27	.15	.12	.05	.02	.02
2	0	.07	.35	.15	.20	.22	.27	.12	.10	.08	.02	.02
3	0	.08	.20	.20	.80	.21	.26	.10	.06	.07	.02	.03
4	0	.10	.19	.87	.23	.20	.26	.14	.07	.04	.02	.03
5	0	.08	.20	.21	.19	.20	1.0	.24	.08	.06	.04	.03
6	0	.04	.18	.18	.18	.21	.48	.32	.08	.13	.02	.03
7	0	.04	.19	.18	.18	1.0	.34	.26	.08	.13	.02	.03
8	0	.05	.18	.18	.18	7.9	.30	.03	.04	.04	.03	.03
9	0	.05	.18	.18	.18	1.2	.29	.10	.04	.05	.05	.03
10	0	.83	.18	.18	.18	6.0	.28	.08	.05	.04	.01	.03
11	0	.21	.16	.18	.18	12	.27	.07	.11	.05	.04	.03
12	0	.11	.18	.18	1.3	13	.26	.13	.07	.08	.05	.03
13	0	.10	.18	.18	.64	9.7	.25	.15	.08	.06	.05	.03
14	0	.09	.18	.18	11	1.7	.24	.24	.04	.05	.03	.03
15	0	.09	.18	.18	18	75	.70	.68	.09	.04	.03	.02
16	0	.10	.18	.18	5.0	114	.80	.05	.05	.02	.04	.02
17	0	.09	.17	.18	3.0	58	.60	.15	.02	.03	.03	.02
18	0	.09	.17	.18	6.0	30	.44	.03	.03	.03	.03	.03
19	0	.09	.17	.18	24	15	.26	.13	.02	.02	.03	.03
20	0	.11	.16	.18	9.9	7.2	.26	.09	.07	.02	.05	.03
21	.55	.11	.16	.18	4.1	4.2	.16	.08	.05	.03	.03	.03
22	.17	.10	.16	.18	2.0	2.5	.07	.06	.05	.04	.03	.04
23	.12	.10	.17	.18	1.2	1.7	.10	.06	.09	.04	.03	.04
24	.12	.32	.15	.18	.68	1.1	.15	.09	.06	.03	.03	.53
25	.10	3.6	.15	.18	.45	.82	.20	.09	.09	.06	.03	.31
26	.09	.23	.15	.18	.35	.61	.17	.10	.09	.03	.03	.04
27	.09	.18	.15	.18	.29	.47	.06	.09	.06	.04	.02	2.3
28	.12	.40	.15	.19	.26	.37	.07	.15	.05	.03	.02	.09
29	.13	1.2	.17	.22	---	.31	.07	.14	.05	.03	.02	.05
30	.13	.30	.21	1.3	---	.29	.13	.15	.05	.03	.02	.06
31	.13	---	.16	.42	---	.28	---	.12	---	.02	.02	---
TOTAL	1.75	9.06	5.58	7.67	90.92	365.62	9.01	4.39	1.94	1.47	.91	4.04
MEAN	.057	.30	.18	.25	3.25	11.8	.30	.14	.065	.047	.029	.13
MAX	.55	3.6	.35	1.3	24	114	1.0	.68	.12	.13	.05	2.3
MIN	0	.04	.15	.15	.18	.20	.06	.03	.02	.02	.01	.02
AC-FT	3.5	18	11	15	180	725	18	8.7	3.8	2.9	1.8	8.0
CAL YR 1985	TOTAL	56.69	MEAN .16	MAX	3.6	MIN 0	AC-FT 112					
WTR YR 1986	TOTAL	502.36	MEAN 1.38	MAX	114	MIN 0	AC-FT 996					

TEMLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, Hydrologic Unit 18060011, on left bank at downstream side of county road bridge, 0.3 mi downstream from small left-bank tributary, and 6.2 mi northeast of Salinas.

DRAINAGE AREA.--36.7 mi².

PERIOD OF RECORD.--October 1970 to current year. January 1959 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

REVISED RECORDS.--WDR CA-84-2: 1978, 1980-83.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Oct. 9, 1975. Elevation of gage is 200 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 9, 1975, on right bank at different datum.

REMARKS.--Estimated daily discharges: Nov. 24 to Dec. 3, Jan. 30 to Feb. 4, Sept. 24-30. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions, storage reservoirs, and return flow from irrigated areas.

AVERAGE DISCHARGE.--16 years, 5.38 ft³/s, 3,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 898 ft³/s, Apr. 1, 1974, gage height, 11.13 ft, at datum then in use, from rating curve extended above 260 ft³/s on basis of slope-area measurement of peak flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*), from rating curve extended above 210 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 29	unknown	61	2.63	Mar. 16	1745	*430	*3.65
Feb. 19	0215	340	3.41				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	0	0	12	.39				
2		0	.04	0	0	0	10	.29				
3		0	0	0	0	0	9.4	.22				
4		0	0	0	0	0	7.8	.40				
5		0	0	0	0	0	8.9	.35				
6		0	0	0	0	0	10	.32				
7		0	0	0	0	.89	9.5	.31				
8		0	0	0	0	24	8.8	.14				
9		0	0	0	0	6.1	8.0	.06				
10		0	0	0	0	27	6.8	0				
11		0	0	0	0	34	6.1	0				
12		0	0	0	11	51	5.2	0				
13		0	0	0	9.0	68	4.4	0				
14		0	0	0	12	50	4.1	0				
15		0	0	0	16	145	5.0	0				
16		0	0	0	12	250	4.7	0				
17		0	0	0	63	169	4.9	0				
18		0	0	0	72	88	4.4	0				
19		0	0	0	115	61	2.8	0				
20		0	0	0	47	44	1.8	0				
21		0	0	0	27	35	1.7	0				
22		0	0	0	11	29	1.1	0				
23		0	0	0	7.2	25	1.9	0				
24		.10	0	0	3.5	23	1.5	0				
25		.70	0	0	.36	20	1.1	0				
26		.04	0	0	0	19	.84	0				
27		0	0	0	0	15	.58	0				
28		.25	0	0	0	14	.53	0				
29		2.3	0	0	---	12	.25	0				
30		.02	0	1.0	---	12	.24	0				
31		---	0	.10	---	11	---	0	---			---
TOTAL	0	3.41	.04	1.10	406.06	1232.99	144.34	2.48	0	0	0	0
MEAN	0	.11	.001	.036	14.5	39.8	4.81	.080	0	0	0	0
MAX	0	2.3	.04	1.0	115	250	12	.40	0	0	0	0
MIN	0	0	0	0	0	0	.24	0	0	0	0	0
AC-FT	0	6.8	.08	2.2	805	2450	286	4.9	0	0	0	0

CAL YR 1985 TOTAL 174.46 MEAN .48 MAX 40 MIN 0 AC-FT 346
WTR YR 1986 TOTAL 1790.42 MEAN 4.91 MAX 250 MIN 0 AC-FT 3550

TEMBLADERO SLOUGH BASIN

11152650 RECLAMATION DITCH NEAR SALINAS, CA

LOCATION.--Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, Hydrologic Unit 18060011, on right bank at upstream side of San Jon Road bridge, and 3.4 mi northwest of Salinas.

DRAINAGE AREA.--53.2 mi².

PERIOD OF RECORD.--October 1970 to February 1986 (discontinued). March 1968 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 30 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is mostly irrigation drainage from Carr Lake area.

AVERAGE DISCHARGE.--15 years (water years 1971-85), 18.4 ft³/s, 13,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 524 ft³/s, Mar. 1, 1983; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.4	6.7	1.4	9.0							
2	2.8	2.9	30	1.3	3.8							
3	2.5	2.8	14	2.2	25							
4	2.3	2.1	3.5	51	---							
5	2.8	1.9	9.3	16	---							
6	2.9	2.2	5.2	4.9	---							
7	2.0	2.1	2.8	2.3	---							
8	1.8	2.2	1.7	1.9	---							
9	2.1	2.6	1.3	1.6	---							
10	2.4	37	1.7	1.6	---							
11	2.2	33	2.1	1.5	---							
12	1.9	5.4	1.9	1.4	---							
13	2.0	3.9	2.1	1.3	---							
14	1.3	2.9	1.7	1.9	---							
15	1.9	2.2	1.3	2.7	---							
16	2.0	2.1	1.2	2.7	---							
17	2.0	1.8	2.3	3.0	---							
18	1.9	1.7	1.2	2.6	---							
19	2.4	2.0	1.2	2.4	---							
20	1.7	2.0	2.2	3.1	---							
21	78	4.0	1.5	2.6	---							
22	18	2.0	1.1	2.7	---							
23	4.5	2.0	1.0	2.9	---							
24	3.7	38	1.4	2.7	---							
25	2.7	107	1.3	2.7	---							
26	2.2	45	.84	2.8	---							
27	2.1	7.0	1.4	2.3	---							
28	1.7	27	1.4	3.4	---							
29	1.7	69	5.2	5.2	---							
30	2.1	37	15	31	---							
31	2.2	---	2.8	30	---							
TOTAL	161.9	453.2	126.34	195.1	---							
MEAN	5.22	15.1	4.08	6.29	---							
MAX	78	107	30	51	---							
MIN	1.3	1.7	.84	1.3	---							
AC-FT	321	899	251	387	---							

CAL YR 1985 TOTAL 2504.8 MEAN 6.86 MAX 107 MIN .84 AC-FT 4970

PAJARO RIVER BASIN

11154200 UVAS CREEK NEAR GILROY, CA

LOCATION.--Lat 36°59'32", long 121°34'21", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 400 ft upstream from county road bridge, 0.4 mi southwest of Gilroy, and 3.9 mi downstream from Bodfish Creek.

DRAINAGE AREA.--71.2 mi².

PERIOD OF RECORD.--January 1959 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 8-9, Jan. 15-16, Jan. 27-29, May 22 to June 1, July 15-17, and July 29-31. Records fair except for estimated daily discharges, which are poor. Flow regulated by Uvas Reservoir 10 mi upstream, capacity, 10,000 acre-ft. Diversion above station for irrigation.

AVERAGE DISCHARGE.--27 years, 46.4 ft³/s, 33,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/s, Feb. 17, 1986, gage height, 21.82 ft, from rating curve extended above 4,500 ft³/s on basis of slope-area measurement of peak flow; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,200 ft³/s, Feb. 17, gage height, 21.82 ft, from rating curve extended as indicated above; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	32	160	96	17	.40	0		
2			179	0	28	133	88	17	0	0		
3			63	0	52	102	80	17	0	0		
4			21	14	59	83	77	22	0	0		
5			12	114	37	82	78	20	0	0		
6			7.1	74	29	73	80	19	0	0		
7			3.8	34	24	126	73	19	0	0		
8			1.5	22	20	2130	66	17	0	0		
9			.50	15	17	910	62	16	0	0		
10			0	11	14	1790	60	15	0	0		
11			0	7.7	12	1200	56	15	0	0		
12			0	6.0	108	1130	53	13	0	0		
13			0	4.2	755	842	47	10	0	0		
14			0	3.1	648	652	43	8.7	0	0		
15			0	2.4	1610	1060	41	7.9	0	1.1		
16			0	1.8	2190	1240	42	7.7	0	3.0		
17			0	40	5480	829	42	6.9	0	2.0		
18			0	26	5030	605	37	6.7	0	3.4		
19			0	19	6520	474	33	5.9	0	4.2		
20			0	13	2280	382	31	6.0	0	4.7		
21			0	10	1140	281	30	5.3	0	5.4		
22			0	7.6	735	244	27	4.7	0	5.3		
23			0	6.3	542	227	27	4.3	0	4.7		
24			0	4.6	424	200	27	3.8	0	3.6		
25			0	3.6	349	178	25	3.3	0	3.3		
26			0	2.7	267	159	23	2.8	0	3.4		
27			0	2.1	209	144	21	2.4	0	3.7		
28			0	1.7	187	133	21	2.0	0	4.0		
29			0	1.4	---	117	20	1.6	0	2.0		
30			0	14	---	111	18	1.2	0	1.0		
31		---	0	35	---	103	---	.80	---	.50		---
TOTAL	0	0	287.90	496.2	28798	15900	1424	299.00	.40	55.30	0	0
MEAN	0	0	9.29	16.0	1029	513	47.5	9.65	.013	1.78	0	0
MAX	0	0	179	114	6520	2130	96	22	.40	5.4	0	0
MIN	0	0	0	0	12	73	18	.80	0	0	0	0
AC-FT	0	0	571	984	57120	31540	2820	593	.8	110	0	0
CAL YR 1985	TOTAL	3057.58	MEAN	8.38	MAX	600	MIN	0	AC-FT	6060		
WTR YR 1986	TOTAL	47260.80	MEAN	129	MAX	6520	MIN	0	AC-FT	93740		

6:00 pm
7:00 am

PAJARO RIVER BASIN

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SE 1/4 SE 1/4 sec.21, T.15 S., R.7 E., San Benito County, Hydrologic Unit 18060002, on left bank 0.9 mi northwest of Willow Creek School, 1.3 mi downstream from Willow Creek, and 10 mi northwest of San Benito.

DRAINAGE AREA.--249 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1565: 1948(M), 1949.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 925.52 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi downstream at different datum. Jan. 28, 1948, to Nov. 10, 1955, and Oct. 1, 1965, to Oct. 22, 1970, at present site at datum 2.37 ft higher.

REMARKS.--Estimated daily discharges: Mar. 14 to Apr. 8. Records good except for daily discharge above 20 ft³/s, which are fair, and estimated daily discharges, which are poor. Low flow regulated by Hernandez Reservoir 40 mi upstream beginning in December 1961, capacity, 18,500 acre-ft. Small diversion upstream from station for irrigation.

AVERAGE DISCHARGE.--47 years, 26.9 ft³/s, 19,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft³/s, Apr. 3, 1958, gage height, 8.35 ft, site and datum then in use, from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1938 reached a stage of about 9.0 ft, from floodmarks at former site 0.9 mi downstream, referenced to datum used at that site.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 15	1200	*1,380	*8.14	Mar. 15	unknown	unknown	unknown
Feb. 19	1045	1,010	7.58				

Minimum daily, 0.28 ft³/s, many days in November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.28	.37	1.5	3.0	7.5	63	14	53	51	59	26
2	.32	.28	.44	1.5	2.4	7.1	60	14	61	51	54	26
3	.32	.28	1.4	1.5	2.8	6.8	58	14	64	50	43	26
4	.32	.28	1.5	3.0	4.2	6.0	56	16	65	51	41	25
5	.32	.28	1.4	2.5	3.4	5.8	54	18	65	51	41	25
6	.32	.28	1.5	2.2	2.9	5.4	52	18	65	51	41	25
7	.32	.28	1.4	2.0	2.9	5.2	56	18	67	51	41	25
8	.32	.28	1.4	2.0	2.9	29	54	17	65	50	41	26
9	.32	.28	1.4	2.0	2.9	41	49	16	65	50	44	26
10	.32	.33	1.4	2.0	2.9	41	43	16	64	54	42	26
11	.32	.31	1.7	2.0	2.9	81	37	16	65	60	41	26
12	.32	.28	1.9	2.0	6.3	58	32	15	65	61	42	26
13	.32	.28	1.6	2.0	22	42	30	14	65	61	43	27
14	.32	.28	1.6	2.0	78	30	26	14	62	55	43	26
15	.32	.28	1.6	2.0	582	800	24	13	56	59	43	27
16	.32	.28	1.6	2.0	115	470	27	13	54	57	43	27
17	.32	.28	1.5	1.8	44	260	26	12	53	59	43	28
18	.35	.28	1.5	1.7	33	170	24	11	52	58	43	28
19	.35	.28	1.5	1.6	385	220	23	10	52	58	43	28
20	.35	.28	1.5	1.6	70	180	21	9.4	51	57	42	28
21	.44	.28	1.5	1.6	35	150	19	9.0	51	58	41	27
22	.35	.28	1.5	2.4	24	125	18	9.9	51	56	35	27
23	.35	.28	1.5	2.3	18	115	18	24	50	56	30	28
24	.34	.33	1.5	1.7	14	105	19	26	52	53	29	31
25	.32	.36	1.5	1.7	12	98	18	26	52	56	28	25
26	.32	.31	1.5	2.1	11	91	17	23	51	53	27	15
27	.32	.28	1.5	2.7	9.7	84	16	22	51	54	26	13
28	.32	.33	1.5	2.4	8.5	78	15	28	49	54	26	12
29	.32	.53	1.7	2.0	---	74	14	47	49	56	27	11
30	.32	.43	1.9	2.2	---	70	14	50	52	58	27	10
31	.32	---	1.7	2.7	---	66	---	51	---	58	26	---
TOTAL	10.21	9.09	45.51	62.7	1500.7	3521.8	983	604.3	1717	1707	1195	726
MEAN	.33	.30	1.47	2.02	53.6	114	32.8	19.5	57.2	55.1	38.5	24.2
MAX	.44	.53	1.9	3.0	582	800	63	51	67	61	59	31
MIN	.32	.28	.37	1.5	2.4	5.2	14	9.0	49	50	26	10
AC-FT	20	18	90	124	2980	6990	1950	1200	3410	3390	2370	1440

PAJARO RIVER BASIN

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CA

LOCATION.--Lat 36°51'07", long 121°25'44", in San Justo Grant, San Benito County, Hydrologic Unit 18060002, on right bank at downstream side of bridge on State Highway 156, and 1.6 mi west of Hollister.

DRAINAGE AREA.--607 mi².

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 14 to Mar. 8, Mar. 14-15, Mar. 19 to Apr. 7, Apr. 15 to June 15-17, June 20 to July 11, and Aug. 26 to Sept. 16. Records fair except for estimated daily discharges, which are poor. Low flows regulated by Hernandez Reservoir 73 mi upstream, capacity, 18,500 acre-ft. Some diversions upstream from station for irrigation.

AVERAGE DISCHARGE.--16 years, 39.2 ft³/s, 28,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s, Mar. 1, 1983, gage height, 11.97 ft, from rating curve extended above 4,100 ft³/s; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 16	0245	1,070	5.42	Mar. 15	1945	*2,930	*7.27

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	11	21	0	9.0	2.9	8.9	1.2
2					0	9.5	20	0	10	2.9	8.6	1.2
3					0	8.2	19	0	11	2.8	10	1.1
4					0	7.3	18	0	12	2.8	14	1.0
5					0	6.5	17	0	12	2.7	13	1.0
6					0	5.9	16	0	13	2.7	12	.97
7					0	5.4	16	0	12	2.6	12	.95
8					0	35	18	0	13	2.6	13	.92
9					0	50	16	0	14	2.5	13	.90
10					0	20	14	0	13	2.5	13	.88
11					0	67	12	0	15	3.4	14	.86
12					0	50	10	0	15	5.9	11	.84
13					0	21	7.7	0	13	9.1	9.0	.82
14					4.0	11	6.1	0	10	12	8.9	.81
15					300	584	5.4	0	8.5	14	10	.80
16					540	1430	4.7	0	7.2	13	10	.79
17					180	397	4.1	0	6.1	13	9.4	1.1
18					90	177	3.7	0	5.7	13	7.6	2.5
19					380	105	3.0	0	4.6	13	10	2.9
20					160	80	2.4	0	4.4	13	9.1	3.8
21					80	95	1.9	0	4.2	13	7.6	4.2
22					55	75	1.6	0	4.0	13	6.9	4.3
23					38	60	1.1	0	3.8	14	6.4	4.6
24					29	50	.60	0	3.6	14	6.1	5.1
25					23	42	.20	0	3.4	14	2.7	5.8
26					19	35	0	0	3.3	10	2.1	5.3
27					15	32	0	0	3.2	9.8	1.8	5.9
28					13	29	0	.40	3.1	10	1.6	4.7
29					---	27	0	2.0	3.1	9.5	1.5	4.5
30					---	25	0	6.0	3.0	8.7	1.4	4.2
31					---	23	---	7.4	---	8.7	1.3	---
TOTAL	0	0	0	0	1926.0	3573.8	239.50	15.80	243.2	261.1	255.9	73.94
MEAN	0	0	0	0	68.8	115	7.98	.51	8.11	8.42	8.25	2.46
MAX	0	0	0	0	540	1430	21	7.4	15	14	14	5.9
MIN	0	0	0	0	0	5.4	0	0	3.0	2.5	1.3	.79
AC-FT	0	0	0	0	3820	7090	475	31	482	518	508	147
CAL YR 1985	TOTAL	1366.17	MEAN	3.74	MAX	63	MIN	0	AC-FT	2710		
WTR YR 1986	TOTAL	6589.24	MEAN	18.1	MAX	1430	MIN	0	AC-FT	13070		

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, Hydrologic Unit 18060002, on left bank at downstream side of bridge on State Highway 129, 0.6 mi downstream from Pescadero Creek, 0.6 mi southeast of Chittenden, and 2.3 mi downstream from San Benito River.

DRAINAGE AREA.--1,186 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "near Chittenden."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 82.28 ft above National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft downstream at same datum except for periods in 1947 and 1948 when a water-stage recorder was in use.

REMARKS.--Estimated daily discharges: Apr. 14 to May 8 and May 19-28. Records good except for periods of estimated discharges, which are poor. Low flows regulated by Hernandez Reservoir, capacity, 18,500 acre-ft, Pacheco Lake, capacity, 6,140 acre-ft; Chesbro Reservoir, capacity, 8,090 acre-ft, Uvas Reservoir, capacity, 10,000 acre-ft; and San Felipe Lake. Many diversions upstream from station for irrigation.

AVERAGE DISCHARGE.--47 years, 164 ft³/s, 118,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s, Dec. 24, 1955, gage height, 32.46 ft, from rating curve extended above 8,300 ft³/s, on basis of slope-conveyance study; maximum gage height, 33.11 ft, Apr. 3, 1958; no flow at times in July, August 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938 reached a stage of 31.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	1930	*13,100	*27.68	Mar. 16	1315	6,090	20.27

Minimum daily, 0.82 ft³/s, Oct. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.1	24	20	97	421	312	55	34	17	13	11
2	2.6	2.2	78	20	68	371	291	60	34	17	14	10
3	1.9	2.5	262	19	89	331	273	85	33	17	14	11
4	1.7	2.8	73	39	137	301	257	105	32	17	14	12
5	1.8	3.0	34	109	88	287	248	110	31	17	13	11
6	1.6	3.4	22	173	66	274	253	95	30	16	12	11
7	1.6	3.4	16	86	54	261	235	85	29	16	12	12
8	1.7	3.6	13	59	46	2730	215	75	28	16	12	12
9	3.4	3.7	12	47	39	3120	203	68	28	16	12	11
10	2.9	8.2	11	38	35	3290	191	64	28	15	13	11
11	1.8	13	11	33	32	4060	173	61	28	15	14	9.8
12	1.6	13	12	29	87	3380	158	59	28	15	12	9.9
13	1.2	8.6	15	26	983	2600	146	56	27	17	12	11
14	.93	7.5	15	25	939	2280	135	54	26	16	12	11
15	.93	7.8	16	25	1910	2960	130	52	26	14	14	13
16	.93	7.9	17	24	3490	5550	160	50	26	13	12	11
17	.84	8.1	17	48	5590	4000	165	49	24	13	12	10
18	.82	8.4	16	71	11500	2560	145	47	23	14	13	11
19	.82	8.3	16	49	12700	1910	135	45	23	15	12	11
20	.82	8.5	17	39	11400	1490	125	44	22	15	12	9.9
21	2.4	9.1	18	33	6310	1180	115	42	22	14	13	10
22	2.6	9.8	17	30	3060	961	100	41	21	13	13	11
23	3.0	10	17	29	1910	835	90	40	20	14	13	12
24	2.5	14	17	27	1410	719	85	39	18	15	13	12
25	2.1	46	17	25	995	629	75	38	18	15	13	13
26	2.0	46	17	24	729	564	75	37	20	16	12	13
27	1.9	16	17	24	579	481	65	36	20	15	11	13
28	1.8	11	17	25	496	423	60	38	19	14	12	14
29	1.9	28	18	26	---	380	60	40	19	13	12	13
30	2.2	54	21	40	---	350	55	36	19	13	12	13
31	2.1	---	23	65	---	332	---	34	---	13	12	---
TOTAL	56.89	369.9	896	1327	64839	49030	4730	1740	756	466	390	343.6
MEAN	1.84	12.3	28.9	42.8	2316	1582	158	56.1	25.2	15.0	12.6	11.5
MAX	3.4	54	262	173	12700	5550	312	110	34	17	14	14
MIN	.82	2.1	11	19	32	261	55	34	18	13	11	9.8
AC-FT	113	734	1780	2630	128600	97250	9380	3450	1500	924	774	682

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.

CHEMICAL DATA: Water years 1952 to current year.

BIOLOGICAL DATA: Water years 1978-81.

SPECIFIC CONDUCTANCE: Water years 1978-81.

WATER TEMPERATURE: Water years 1978-81.

SEDIMENT DATA: Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1978 to September 1981.

WATER TEMPERATURE: May 1978 to September 1981.

INSTRUMENTATION.--Water-quality monitor from May 1978 to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
DEC 17...	1200	17	1320	8.00	7.5	765	6.0	11.0	92	460	130	540
MAR 18...	1300	2510	436	7.60	14.0	765	67	9.0	87	1100	2300	160
JUN 17...	1130	26	1190	8.10	20.0	760	18	8.7	96	88	K83	480
SEP 10...	1130	12	1230	8.20	17.0	760	17	8.7	91	K66	110	470
DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L CACO3)	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 17...	150	96	73	96	28	2	2.0	482	395	394	210	110
MAR 18...	16	31	20	32	30	1	2.5	180	148	144	57	19
JUN 17...	140	85	66	77	26	2	2.2	420	344	341	150	82
SEP 10...	90	80	66	91	29	2	2.4	464	380	382	130	99
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC 17...	0.20	22	850	870	1.2	39	0.020	4.40	0.090	0.100	0.70	0.110
MAR 18...	0.20	18	263	270	0.36	1780	0.020	1.10	0.040	0.040	1.1	0.160
JUN 17...	0.20	23	713	730	0.97	50	0.070	9.70	0.080	0.080	0.80	0.190
SEP 10...	0.40	25	785	720	1.1	25	0.040	4.70	0.120	0.110	0.80	0.230

See footnotes at end of table

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 17...	0.100	0.070	10	1	120	<0.5	<1	<1	<3	2	14
MAR 18...	0.100	0.080	30	1	47	<0.5	<1	<1	<3	1	53
JUN 17...	0.140	0.130	<10	2	130	<0.5	<1	<1	<3	3	14
SEP 10...	0.170	0.160	--	--	--	--	--	--	--	--	--
DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 17...	1	21	170	<0.1	<10	6	2	<1	640	<6	8
MAR 18...	<1	10	14	<0.1	<10	3	1	<1	330	<6	5
JUN 17...	<5	21	130	0.1	<10	4	2	<1	570	<6	11
SEP 10...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside acceptable range (non-ideal colony count).

< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 18...*	1315	143	434	7.40	14.0	765	9.0	87	1210	91
18...*	1325	161	432	7.60	14.0	765	9.0	87	1280	85
18...*	1330	172	431	7.70	14.0	765	9.0	87	1310	82
18...*	1340	183	429	7.70	14.0	765	9.0	87	1570	69
18...*	1345	198	429	7.80	14.0	765	9.0	87	1320	83

* Instantaneous streamflow at the time of cross-sectional measurement: Mar. 18, 2,510 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 17...	1130	17	7.5	29	1.3	--
FEB 06...	1325	65	12.0	46	8.1	72
18...*	1325	12400	16.5	1710	57300	82
MAR 18...	1335	2510	14.0	1340	9080	82
JUN 17...	1205	25	20.0	97	6.5	44
SEP 10...	1135	11	17.0	44	1.3	74

*Partial depth sample.

PAJARO RIVER BASIN

11159200 CORRALITOS CREEK AT FREEDOM, CA

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, Hydrologic Unit 18060002, on right bank just upstream from Green Valley Road bridge, 0.2 mi north of Freedom, and 2.3 mi north of Watsonville.

DRAINAGE AREA.--27.8 mi².

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 80 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 25 to Mar. 6, Mar. 19-20, and May 25-28. Records fair except for estimated daily discharges, which are poor. No regulation; Watsonville Water Work can divert up to 8.0 ft³/s upstream from station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--30 years, 16.9 ft³/s, 12,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,610 ft³/s, Jan. 4, 1982, gage height, 16.66 ft, from rating curve extended above 1,400 ft³/s (revised) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks, discharge, 3,620 ft³/s, on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*), from rating curve extended above 1,000 ft³/s on basis of slope-area measurements at gage heights 16.44 ft and 16.66 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2215	*5,320	*16.44	Mar. 15	1015	755	6.01
Mar. 8	0715	1,230	7.10				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	4.6	2.2	43	33	27	9.2	3.0	.53	.67	.17
2	0	0	128	1.9	38	30	25	9.0	3.2	.29	.44	.18
3	0	0	43	2.1	52	28	24	9.2	3.2	.30	.55	.18
4	0	0	18	71	48	27	23	15	2.7	.53	.58	.18
5	0	.06	11	88	36	26	25	10	2.5	.54	.58	.17
6	0	.16	7.0	45	26	25	25	9.4	2.2	.57	.58	.17
7	0	0	5.8	23	21	80	22	8.8	2.0	.58	.59	.18
8	0	0	4.9	15	17	609	21	8.2	1.8	.62	.58	.17
9	0	0	3.9	11	14	149	20	7.7	1.6	.62	.44	.14
10	0	5.1	2.4	8.1	13	431	19	7.2	1.3	.58	.32	.12
11	0	4.2	1.8	6.2	11	233	17	7.0	1.2	.72	.29	.11
12	0	1.2	1.4	4.9	159	259	17	6.5	1.4	.67	.27	.14
13	0	.77	1.2	3.4	351	197	16	6.1	1.3	.69	.31	.15
14	0	.44	1.0	4.0	301	129	16	6.0	1.2	.72	.29	.14
15	0	.09	.95	5.6	291	330	16	5.6	1.2	.67	.25	.12
16	0	.01	.97	7.0	570	338	18	5.5	1.0	.50	.24	.11
17	0	0	1.0	78	1510	171	16	5.1	1.1	.28	.21	.15
18	0	0	1.0	33	1510	117	15	4.7	.89	.27	.21	.16
19	0	0	1.0	20	1150	86	14	4.4	.82	.62	.15	.12
20	0	0	1.1	15	351	70	13	4.2	.80	.66	.17	.10
21	1.3	0	1.3	11	185	62	13	4.1	.81	.29	.18	.14
22	.54	0	1.3	9.2	120	56	12	3.9	.79	.44	.18	.14
23	.17	0	1.3	9.8	89	51	12	3.7	1.2	.26	.19	.16
24	0	13	1.3	8.3	72	47	12	3.6	1.7	.23	.18	1.7
25	0	29	1.3	7.2	56	43	11	3.5	1.2	.37	.18	.55
26	0	5.0	1.3	6.3	47	39	11	3.4	.74	.59	.16	.70
27	0	2.2	1.3	5.8	41	36	10	3.2	.74	.60	.15	2.3
28	0	4.3	1.3	5.2	36	33	9.8	3.1	.91	.59	.15	1.0
29	0	32	1.9	6.4	---	32	9.7	3.0	1.0	.65	.13	.53
30	0	9.5	6.7	15	---	30	9.3	2.9	.79	.62	.14	.45
31	0	---	3.1	45	---	29	---	2.8	---	.68	.16	---
TOTAL	2.01	107.03	262.12	573.6	7158	3826	498.8	186.0	44.29	16.28	9.52	10.63
MEAN	.065	3.57	8.46	18.5	256	123	16.6	6.00	1.48	.53	.31	.35
MAX	1.3	32	128	88	1510	609	27	15	3.2	.72	.67	2.3
MIN	0	0	.95	1.9	11	25	9.3	2.8	.74	.23	.13	.10
AC-FT	4.0	212	520	1140	14200	7590	989	369	88	32	19	21

SOQUEL CREEK BASIN

11160000 SOQUEL CREEK AT SOQUEL, CA

LOCATION.--Lat 36°59'29", long 121°57'17", in NE 1/4 sec.10, T.11 S., R.1 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank 0.2 mi upstream from highway bridge in town of Soquel, and 0.4 mi downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi².

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WSP 1715: Drainage area. WSP 2129: 1958, 1959-60(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 21.38 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 12-30, Mar. 28 to Apr. 9, and July 5 to Aug. 11. Records good except for estimated daily discharges, which are fair. No regulation; small diversion upstream from station for irrigation.

AVERAGE DISCHARGE.--35 years, 46.2 ft³/s, 33,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s, Dec. 23, 1955, gage height, 22.33 ft, from rating curve extended above 2,900 ft³/s on basis of slope-area measurement of maximum flow; no flow on several days during August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*), from rating curve extended above 1,500 ft³/s on basis of slope-area measurement at gage height 22.33 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2145	*8,900	*15.68	Mar. 15	0900	2,420	7.99
Mar. 8	0615	2,360	7.89				

Minimum daily 1.5 ft³/s, Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.4	18	8.7	188	107	87	23	12	8.1	4.9	3.6
2	2.3	3.1	303	8.1	149	89	80	23	12	8.5	4.9	3.8
3	2.0	2.9	136	8.6	195	74	74	24	12	8.6	4.8	4.1
4	2.0	2.7	45	293	132	64	69	30	12	8.8	4.8	4.0
5	1.8	2.8	28	236	83	56	64	25	11	9.8	4.7	4.3
6	2.2	2.7	21	90	64	46	60	23	11	9.0	4.7	4.7
7	3.0	2.6	17	46	52	149	56	22	11	8.0	4.7	4.7
8	2.7	2.6	14	31	47	1050	53	21	11	7.8	4.7	5.2
9	2.4	3.2	12	25	42	316	49	21	10	7.6	4.6	4.1
10	1.9	18	11	21	35	934	48	21	9.8	7.4	4.6	4.3
11	1.5	11	9.6	18	32	478	45	20	9.9	7.2	4.6	4.4
12	1.6	6.2	9.0	16	684	562	43	19	11	7.0	4.0	4.8
13	1.7	4.7	7.8	15	856	418	41	21	9.8	6.9	4.1	5.2
14	2.2	4.1	7.9	25	1240	307	39	19	9.8	6.8	4.3	5.1
15	1.7	4.1	7.3	21	1000	1050	39	17	9.4	6.6	4.0	3.7
16	1.7	3.9	7.3	150	1230	858	42	17	8.9	6.4	4.2	3.7
17	1.8	3.8	7.3	70	3220	509	39	16	9.4	6.3	4.1	4.4
18	1.9	3.8	6.4	44	2500	439	35	15	9.8	6.2	4.1	5.6
19	2.0	3.5	6.0	32	2270	374	33	15	9.7	6.0	4.0	4.9
20	1.9	3.3	6.0	27	767	317	32	15	8.4	5.9	3.9	4.5
21	18	3.7	6.0	23	499	274	31	15	8.7	5.8	3.9	4.3
22	6.3	3.5	5.9	33	330	241	31	14	9.3	5.7	3.8	3.9
23	4.0	3.5	5.4	27	223	215	31	14	9.3	5.6	4.3	4.4
24	3.5	44	5.7	23	217	191	30	14	8.4	5.5	4.8	12
25	2.7	75	5.6	21	196	172	29	13	8.7	5.4	4.9	9.2
26	2.4	20	5.4	19	169	155	28	14	9.1	5.3	4.0	5.8
27	2.8	10	5.4	17	144	140	26	14	8.9	5.3	4.1	13
28	2.8	17	5.4	16	122	124	26	14	8.3	5.2	3.8	8.5
29	2.9	81	8.1	40	---	114	25	13	8.2	5.1	3.3	5.8
30	2.7	31	20	140	---	104	24	12	8.1	5.0	3.2	5.0
31	2.7	---	12	359	---	95	---	12	---	5.0	3.4	---
TOTAL	91.5	381.1	764.5	1903.4	16686	10022	1309	556	294.9	207.8	132.2	161.0
MEAN	2.95	12.7	24.7	61.4	596	323	43.6	17.9	9.83	6.70	4.26	5.37
MAX	18	81	303	359	3220	1050	87	30	12	9.8	4.9	13
MIN	1.5	2.6	5.4	8.1	32	46	24	12	8.1	5.0	3.2	3.6
AC-FT	181	756	1520	3780	33100	19880	2600	1100	585	412	262	319

SAN LORENZO RIVER BASIN

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA

LOCATION.--Lat 37°12'24", long 122°08'38", in NE 1/4 SW 1/4 sec.25, T.8 S., R.3 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank 22 ft upstream from culvert on State Highway 9, 100 ft upstream from small right-bank tributary, and 5.8 mi north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi².

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 13 to Jan. 9. Records good except for estimated discharges, which are fair.

AVERAGE DISCHARGE.--18 years, 7.83 ft³/s, 5,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s, Jan. 4, 1982, gage height, 11.48 ft, from rating curve extended above 230 ft³/s, on basis of slope-area measurement of maximum flow; minimum daily, 0.08 ft³/s, Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*), from rating curve extended above 280 ft³/s on basis of slope-area measurement at gage height 11.48 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1400	782	9.58	Mar. 8	0600	234	5.06
Feb. 17	2045	*924	*10.60				

Minimum daily, 0.41 ft³/s, Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.52	1.8	.93	13	8.7	14	4.8	2.6	1.7	1.3	.82
2	.47	.52	12	1.0	14	7.4	13	4.8	2.6	1.6	1.2	.81
3	.43	.52	6.3	2.5	13	6.9	12	4.9	2.6	1.6	1.2	.81
4	.41	.52	3.5	6.6	10	6.2	12	5.1	2.6	1.6	1.1	.79
5	.41	.52	2.8	4.6	7.0	5.6	12	5.0	2.6	1.6	1.2	.76
6	.43	.52	2.1	2.5	5.9	5.1	12	4.8	2.6	1.7	1.2	.76
7	.55	.52	2.3	2.2	4.7	8.4	11	4.5	2.6	1.6	1.2	.77
8	.52	.57	2.1	1.9	4.1	98	10	4.3	2.6	1.6	1.2	.79
9	.52	.66	1.8	1.6	3.5	41	10	4.2	2.4	1.6	1.1	.84
10	.52	2.3	1.6	1.5	3.2	135	9.6	4.0	2.3	1.5	1.1	.77
11	.49	1.9	1.5	1.5	2.8	80	9.2	4.0	2.3	1.4	1.1	.75
12	.52	1.4	1.3	1.4	47	69	8.9	4.0	2.3	1.4	1.1	.76
13	.54	1.3	1.2	1.3	50	67	8.6	3.8	2.3	1.6	1.1	.83
14	.50	1.3	1.2	1.6	262	50	8.0	3.8	2.3	1.5	1.1	.81
15	.48	1.3	1.1	1.6	188	90	8.2	3.8	2.3	1.4	1.1	.83
16	.47	1.3	1.1	3.6	162	112	8.3	3.7	2.3	1.4	1.1	.90
17	.49	1.3	1.1	8.1	469	65	7.8	3.5	2.3	1.4	1.1	1.1
18	.58	1.3	1.0	4.5	325	50	7.3	3.5	2.2	1.4	.99	1.1
19	.61	1.2	1.0	3.2	297	40	6.9	3.5	2.1	1.4	.88	.92
20	.64	1.3	1.0	2.3	135	33	6.5	3.4	2.1	1.4	.87	.90
21	2.7	1.3	.99	2.1	76	29	6.2	3.3	2.1	1.4	.87	.87
22	.67	1.3	.99	1.9	51	26	6.2	3.3	2.0	1.4	.87	.86
23	.61	1.3	.94	1.9	41	23	6.0	3.3	1.9	1.5	.87	.88
24	.52	6.2	.89	1.7	28	21	5.8	3.3	1.8	1.5	.86	1.6
25	.49	4.1	.86	1.7	21	20	5.8	3.2	1.8	1.4	.83	1.2
26	.48	1.6	.86	1.5	16	19	5.5	3.0	1.8	1.4	.80	.94
27	.48	1.3	.86	1.5	12	18	5.3	3.0	1.8	1.4	.82	1.6
28	.49	2.4	.86	1.5	10	17	5.1	2.8	1.8	1.4	.85	1.0
29	.52	4.4	1.0	2.3	---	15	5.1	2.8	1.8	1.3	.87	.90
30	.52	2.3	1.1	5.6	---	14	5.0	2.8	1.8	1.3	.86	.88
31	.52	---	.98	18	---	14	---	2.6	---	1.3	.85	---
TOTAL	18.10	46.97	58.13	94.13	2271.2	1194.3	251.3	116.8	66.6	45.7	31.59	27.55
MEAN	.58	1.57	1.88	3.04	81.1	38.5	8.38	3.77	2.22	1.47	1.02	.92
MAX	2.7	6.2	12	18	469	135	14	5.1	2.6	1.7	1.3	1.6
MIN	.41	.52	.86	.93	2.8	5.1	5.0	2.6	1.8	1.3	.80	.75
AC-FT	36	93	115	187	4500	2370	498	232	132	91	63	55

CAL YR 1985 TOTAL 710.58 MEAN 1.95 MAX 37 MIN .29 AC-FT 1410
WTR YR 1986 TOTAL 4222.37 MEAN 11.6 MAX 469 MIN .41 AC-FT 8380

SAN LORENZO RIVER BASIN

11160060 BEAR CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'40", long 122°06'57", in NW 1/4 NW 1/4 sec.29, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank on downstream side of private road bridge in town of Boulder Creek, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--16.0 mi².

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 460 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13-20, Jan. 5 to Feb. 6, Feb. 18-27, Mar. 13-14, and Aug. 15 to Sept. 3. Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 24.2 ft³/s, 17,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s, Jan. 4, 1982, gage height, 13.30 ft, from rating curve extended above 600 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft³/s Sept. 23, 24, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*), from rating curve extended above 410 ft³/s on basis of slope-area measurement at gage height 13.30 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1430	2,450	9.60	Mar. 8	0530	700	4.99
Feb. 17	2045	*2,620	*9.94	Mar. 15	0700	887	5.63

Minimum daily, 0.16 ft³/s, Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.19	4.1	2.8	75	36	27	7.8	5.7	2.3	1.3	1.0
2	.37	.28	63	2.5	92	32	26	7.6	5.9	2.2	1.3	1.0
3	.36	.44	20	2.5	60	29	24	8.7	5.4	2.1	1.3	1.0
4	.35	.48	9.7	46	38	27	23	8.3	5.3	2.1	1.2	1.0
5	.33	.55	7.1	30	25	25	23	7.6	5.6	2.1	1.1	1.0
6	.32	.61	5.4	20	17	23	23	7.5	5.6	2.3	1.2	1.0
7	.33	.69	4.8	14	11	32	21	7.2	5.2	2.6	1.2	1.0
8	.40	.80	4.2	9.9	10	272	20	6.9	5.3	2.5	1.2	1.0
9	.44	.95	3.7	8.4	8.6	141	19	6.6	4.9	2.3	1.2	.99
10	.46	3.8	3.1	6.9	7.8	461	18	7.8	4.4	2.1	1.2	.99
11	.44	3.5	2.7	6.4	7.3	228	17	9.0	4.3	2.1	1.2	.99
12	1.1	2.0	2.5	6.1	159	210	16	9.0	4.6	1.9	1.1	.99
13	.70	1.5	2.3	5.9	189	170	15	8.2	4.6	1.9	1.1	.98
14	.52	1.3	2.3	7.0	763	135	15	8.1	4.4	1.9	1.2	.98
15	.42	1.3	2.2	9.0	460	416	15	8.7	4.2	2.0	1.2	.98
16	.35	1.3	2.2	40	522	363	15	8.5	4.2	1.9	1.2	.98
17	.29	1.3	2.0	70	1430	184	14	8.2	4.0	1.9	1.2	.98
18	.25	1.3	2.0	36	980	134	13	7.8	4.0	2.0	1.2	.98
19	.22	1.3	2.2	21	660	106	12	7.6	3.9	2.0	1.1	.97
20	.20	1.4	2.2	16	360	87	12	7.1	3.8	2.0	1.1	.97
21	4.7	1.5	2.2	13	210	74	11	7.2	3.9	1.8	1.1	.97
22	1.0	1.6	2.2	11	140	65	11	7.0	3.7	1.8	1.1	2.5
23	.44	1.6	2.1	13	100	58	11	6.6	3.5	2.0	1.1	1.9
24	.34	19	2.0	11	75	51	9.9	6.7	3.3	2.1	1.1	4.0
25	.26	11	2.0	9.2	60	47	9.8	6.5	3.2	2.1	1.0	2.5
26	.20	3.6	2.0	8.2	52	42	9.9	6.4	3.2	1.9	1.0	2.0
27	.19	2.5	2.0	7.4	46	39	9.0	5.9	3.2	1.8	1.0	5.0
28	.17	4.7	2.1	6.9	40	35	8.5	5.9	3.2	1.9	1.0	3.5
29	.16	9.6	4.0	20	---	33	8.5	5.9	3.1	1.8	1.0	2.6
30	.21	5.6	6.2	60	---	31	8.2	5.7	2.5	1.7	1.0	2.1
31	.20	---	3.3	160	---	29	---	5.6	---	1.4	1.0	---
TOTAL	16.11	85.69	177.8	680.1	6597.7	3615	464.8	227.6	128.1	62.5	35.2	46.85
MEAN	.52	2.86	5.74	21.9	236	117	15.5	7.34	4.27	2.02	1.14	1.56
MAX	4.7	19	63	160	1430	461	27	9.0	5.9	2.6	1.3	5.0
MIN	.16	.19	2.0	2.5	7.3	23	8.2	5.6	2.5	1.4	1.0	.97
AC-FT	32	170	353	1350	13090	7170	922	451	254	124	70	93
CAL YR 1985	TOTAL	1547.77	MEAN	4.23	MAX	125	MIN	.16	AC-FT	3070		
WTR YR 1986	TOTAL	12137.45	MEAN	33.3	MAX	1430	MIN	.16	AC-FT	24070		

SAN LORENZO RIVER BASIN

11160070 BOULDER CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'36", long 122°07'18", in NW 1/4 NE 1/4 sec.30, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank under bridge on State Highway 9 in town of Boulder Creek, and 750 ft upstream from mouth.

DRAINAGE AREA.--11.3 mi².

PERIOD OF RECORD.--October 1976 to current year.

REVISED RECORDS.--WDR CA-84-2: 1980, 1982-83.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 470 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 21 to Nov. 6. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 22.1 ft³/s, 16,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s, Jan. 4, 1982, gage height, 9.50 ft, from rating curve extended above 330 ft³/s on basis of slope-area measurement at gage height 6.03 ft; minimum daily, 0.35 ft³/s, Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*), from rating curve extended above 590 ft³/s on basis of slope-area measurement at gage height 6.03 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2130	*1,660	*5.93	Mar. 15	0645	882	4.35
Mar. 8	0400	695	3.91				

Minimum daily, 1.1 ft³/s, Oct. 2, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	6.2	2.8	56	35	27	8.7	4.4	2.7	2.3	1.4
2	1.1	1.3	98	2.5	73	31	27	9.2	4.4	2.5	2.0	1.6
3	1.5	1.3	41	2.7	51	30	25	9.6	4.3	2.5	2.0	1.7
4	1.3	1.3	16	56	29	29	24	9.7	4.1	2.5	2.0	1.5
5	1.2	1.3	12	40	18	27	23	9.1	4.0	2.5	1.8	1.7
6	1.1	1.3	8.0	20	12	24	23	8.7	4.0	2.5	1.8	1.5
7	1.3	1.3	7.0	12	10	44	22	8.6	4.0	2.5	1.9	1.4
8	1.3	1.3	5.9	8.9	9.2	303	21	8.2	4.0	2.5	2.0	1.5
9	1.3	1.6	5.1	7.6	8.6	123	20	8.0	3.8	2.5	1.9	1.5
10	1.3	12	4.7	6.7	8.1	372	19	7.8	3.9	2.5	1.9	1.5
11	1.5	7.5	3.9	6.4	7.8	188	18	7.4	3.9	2.3	2.1	1.5
12	1.5	2.2	3.8	5.7	149	184	17	7.2	3.7	2.3	1.8	1.6
13	1.5	1.5	3.7	5.6	229	157	16	7.2	3.6	2.3	1.8	1.8
14	1.5	1.5	3.4	7.3	381	102	17	6.7	3.5	2.3	1.7	1.7
15	1.5	1.5	3.4	8.0	297	405	16	6.4	3.4	2.3	1.7	1.7
16	1.5	1.5	3.1	37	474	327	17	6.4	3.4	2.3	1.7	1.8
17	1.5	1.5	3.0	70	941	150	16	5.9	3.3	2.5	1.7	2.4
18	1.5	1.5	2.7	24	737	105	16	5.8	3.2	2.3	1.7	2.2
19	1.5	1.6	2.7	16	539	83	14	5.5	3.1	2.2	1.7	2.0
20	2.0	1.8	2.5	13	216	70	13	5.2	3.0	2.2	1.7	2.0
21	9.2	2.3	2.4	11	142	62	12	5.2	2.9	2.1	1.7	1.8
22	4.5	2.6	2.4	9.7	100	56	12	5.4	2.8	2.2	1.5	1.8
23	2.5	2.7	2.2	12	78	51	11	5.1	2.9	2.3	1.5	2.0
24	1.9	41	2.2	8.6	63	46	11	4.9	2.9	2.1	1.5	3.2
25	1.6	17	2.2	8.0	54	42	11	4.6	2.9	2.1	1.5	2.2
26	1.5	6.6	2.2	7.5	47	39	11	4.6	2.8	2.1	1.5	1.9
27	1.4	4.0	2.2	7.1	42	37	10	4.6	2.9	2.1	1.5	4.1
28	1.4	8.8	2.2	6.6	39	34	9.9	4.5	2.7	2.2	1.4	1.9
29	1.3	28	5.2	18	---	31	9.6	4.5	2.7	2.2	1.4	1.2
30	1.3	8.5	5.6	48	---	29	9.3	4.4	2.7	2.2	1.4	1.2
31	1.3	---	3.3	137	---	29	---	4.3	---	2.1	1.4	---
TOTAL	56.1	167.6	268.2	625.7	4810.7	3245	497.8	203.4	103.2	71.9	53.5	55.3
MEAN	1.81	5.59	8.65	20.2	172	105	16.6	6.56	3.44	2.32	1.73	1.84
MAX	9.2	41	98	137	941	405	27	9.7	4.4	2.7	2.3	4.1
MIN	1.1	1.3	2.2	2.5	7.8	24	9.3	4.3	2.7	2.1	1.4	1.2
AC-FT	111	332	532	1240	9540	6440	987	403	205	143	106	110

CAL YR	TOTAL	MEAN	MAX	MIN	AC-FT
1985	2875.04	7.88	304	.82	5700
1986	10158.40	27.8	941	1.1	20150

SAN LORENZO RIVER BASIN

11160300 ZAYANTE CREEK AT ZAYANTE, CA

LOCATION.--Lat 37°05'10", long 122°02'45", in SE 1/4 sec.2, T.10 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi upstream from Lompico Creek, 2.0 mi east of Ben Lomond, and 3.2 mi upstream from mouth.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and steel plate low-flow control. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 14, 1979, at datum 0.12 ft higher.

REMARKS.--No estimated daily discharges. Records good. No known regulation; small diversion upstream from station for individual use.

AVERAGE DISCHARGE.--29 years, 12.7 ft³/s, 9,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s, Jan. 14, 1978, gage height, 8.52 ft, from rating curve extended above 1,200 ft³/s on basis of slope-area measurement at gage height 7.70 ft, maximum gage height, 8.86 ft, Jan. 4, 1982; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2100	*2,660	*7.35	Mar. 15	0745	1,100	4.98
Mar. 8	0500	1,040	4.86				

Minimum daily, 0.37 ft³/s, Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.67	2.9	1.6	36	64	15	7.2	2.6	2.0	1.4	.88
2	.50	.65	38	1.4	30	58	14	6.7	2.6	2.0	1.3	.89
3	.44	.65	16	1.4	27	54	14	7.0	2.5	1.9	1.4	.91
4	.40	.66	6.0	50	20	51	13	6.7	2.5	1.8	1.3	.93
5	.39	.63	3.8	25	15	49	13	6.7	2.4	1.9	1.3	.93
6	.43	.62	2.6	11	12	46	13	6.3	2.5	2.0	1.3	1.0
7	.48	.64	2.2	6.7	10	55	13	6.0	2.5	1.9	1.3	1.4
8	.44	.60	1.8	5.1	8.8	432	12	5.8	2.5	1.9	1.2	1.4
9	.41	.61	1.7	4.3	7.8	190	12	5.5	2.4	1.7	1.2	.73
10	.39	1.9	1.5	3.7	7.0	387	11	5.4	2.3	1.7	1.1	.70
11	.39	1.6	1.4	3.3	6.5	180	11	5.1	2.4	1.7	1.1	.68
12	.39	1.0	1.3	3.0	231	223	11	5.0	2.5	1.7	1.1	.74
13	.41	.82	1.3	2.8	204	158	10	4.8	2.5	1.7	1.1	.86
14	.39	.79	1.3	3.0	565	95	10	4.6	2.4	1.7	1.1	.78
15	.39	.79	1.2	3.2	437	432	10	4.4	2.3	1.6	1.1	.82
16	.37	.79	1.2	5.2	381	344	11	4.3	2.3	1.6	1.0	.87
17	.39	.79	1.2	12	1270	148	10	4.2	2.4	1.6	.99	1.2
18	.44	.77	1.2	6.9	643	93	9.4	4.0	2.3	1.5	.95	1.3
19	.45	.74	1.1	5.5	807	67	9.1	3.9	2.2	1.4	.88	1.0
20	.46	.76	1.1	4.8	333	52	8.8	3.7	2.2	1.4	.85	.90
21	2.6	.79	1.1	4.3	207	43	8.6	3.6	2.1	1.5	.88	.88
22	.96	.79	1.0	4.0	154	38	8.4	3.4	2.2	1.5	.89	.85
23	.73	.79	1.0	4.0	128	32	8.2	3.4	2.2	1.5	.90	.89
24	.68	10	1.0	3.5	110	29	8.1	3.2	2.2	1.5	.96	1.7
25	.64	7.7	1.0	3.2	96	26	7.6	3.1	2.2	1.5	.95	1.6
26	.64	2.6	.96	3.0	84	23	7.5	2.9	2.2	1.4	.93	1.2
27	.64	1.9	.96	2.9	77	21	7.3	2.9	2.1	1.5	.86	2.0
28	.64	4.0	.96	2.8	71	20	7.3	2.7	2.1	1.5	.87	1.3
29	.67	7.9	2.0	5.1	---	18	7.3	2.6	2.0	1.5	.86	1.1
30	.69	4.1	3.8	27	---	17	7.2	2.5	2.0	1.4	.86	.96
31	.69	---	1.9	103	---	16	---	2.5	---	1.4	.83	---
TOTAL	18.06	57.05	104.48	322.7	5978.1	3461	307.8	140.1	69.6	50.9	32.76	31.40
MEAN	.58	1.90	3.37	10.4	214	112	10.3	4.52	2.32	1.64	1.06	1.05
MAX	2.6	10	38	103	1270	432	15	7.2	2.6	2.0	1.4	2.0
MIN	.37	.60	.96	1.4	6.5	16	7.2	2.5	2.0	1.4	.83	.68
AC-FT	36	113	207	640	11860	6860	611	278	138	101	65	62

CAL YR 1985	TOTAL	1042.01	MEAN	2.85	MAX	119	MIN	.30	AC-FT	2070
WTR YR 1986	TOTAL	10573.95	MEAN	29.0	MAX	1270	MIN	.37	AC-FT	20970

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank 20 ft upstream from bridge on Henry Cowell State Park Road, 200 ft upstream from Shingle Mill Creek, 0.3 mi downstream from Zayante Creek, 0.9 mi northwest of Big Trees station on Southern Pacific Railroad, and 5.3 mi northwest of Santa Cruz.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1938(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 227.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1972, at site 1.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 14-17. Records good. Low flow partially regulated by Loch Lomond Reservoir since 1961, capacity, 8,820 acre-ft, and by a fiber dam located 500 ft upstream from gage. Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--50 years, 140 ft³/s, 101,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft³/s, Dec. 23, 1955, gage height, 22.55 ft, site and datum then in use, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of maximum flow; maximum gage height, 28.85 ft, Jan. 5, 1982; minimum, 0.8 ft³/s, regulated, June 25, 1939; minimum daily, 5.6 ft³/s, July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*), from rating curve extended above 3,900 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1545	13,500	17.89	Mar. 10	0200	4,260	10.85
Feb. 17	2200	*19,800	*21.22	Mar. 15	0815	7,480	13.85

Minimum daily, 8.3 ft³/s, Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

1	14	16	37	30	413	321	235	91	53	33	24	20
2	14	15	456	24	388	289	223	90	53	33	24	22
3	13	15	238	23	368	261	216	97	51	33	24	21
4	10	15	96	432	271	250	208	98	50	33	23	21
5	8.5	15	66	274	195	240	206	93	50	32	23	20
6	8.3	15	45	145	149	227	207	89	47	33	23	20
7	9.7	15	37	88	119	303	200	86	44	32	23	20
8	9.2	14	34	67	102	1940	188	84	45	32	23	20
9	9.6	15	29	55	85	859	181	82	46	31	23	20
10	10	39	25	48	77	2790	173	79	45	30	23	19
11	11	36	27	42	68	1440	167	78	45	30	23	19
12	11	25	24	39	1360	1570	158	75	45	29	22	19
13	13	20	24	37	2210	1280	149	74	45	30	22	20
14	22	18	23	39	4510	897	144	72	44	29	22	20
15	15	18	22	44	2570	3150	144	70	42	29	22	22
16	14	18	22	113	3330	2480	152	69	42	28	22	24
17	13	17	23	250	9680	1250	142	67	41	28	22	25
18	12	17	20	122	5110	869	133	65	40	28	21	25
19	13	17	22	91	5080	668	126	64	39	28	21	23
20	13	17	23	73	1740	561	122	63	39	28	21	22
21	47	17	22	62	1150	489	114	61	39	27	20	21
22	24	17	22	57	878	445	109	60	38	27	21	21
23	18	18	21	65	713	407	107	60	38	27	21	21
24	16	189	21	50	601	373	107	58	37	27	22	35
25	16	123	24	47	518	352	108	59	37	26	21	30
26	15	30	27	44	461	330	106	57	37	26	20	26
27	15	26	23	42	410	308	100	62	36	26	20	35
28	15	63	25	40	351	288	98	63	35	26	20	30
29	15	122	36	100	---	271	96	57	35	26	19	25
30	15	57	63	326	---	260	94	60	34	25	19	22
31	17	---	34	843	---	250	---	55	---	24	21	---
TOTAL	456.3	1039	1611	3712	42907	25418	4513	2238	1272	896	675	688
MEAN	14.7	34.6	52.0	120	1532	820	150	72.2	42.4	28.9	21.8	22.9
MAX	47	189	456	843	9680	3150	235	98	53	33	24	35
MIN	8.3	14	20	23	68	227	94	55	34	24	19	19
AC-FT	905	2060	3200	7360	85110	50420	8950	4440	2520	1780	1340	1360

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906-7, 1952-82, October 1985 to June 1986 (discontinued).

CHEMICAL DATA: Water years 1906-7, 1952-67, 1969-70, 1973-75, 1977, 1980-81.

WATER TEMPERATURE: Water years 1966-82.

SEDIMENT DATA: Water years 1973-82, October 1985 to June 1986 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1966 to February 1979.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 10,700 mg/L, Jan. 4, 1982; minimum daily mean, 1 mg/L on several days in 1972-74, 1975, 1980, 1981.

SEDIMENT LOAD: Maximum daily, 609,000 tons, Jan. 4, 1982; minimum daily, 0.03 ton several days in 1981.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
17...	1415	12	12.0	4	0.13	--	--	--
NOV								
12...	1245	23	9.0	5	0.31	--	--	--
DEC								
06...	1245	42	11.5	8	0.91	--	--	--
JAN								
03...	1245	22	11.5	12	0.71	--	--	--
31...	1430	1490	11.0	1290	5190	22	32	41
FEB								
04...	1320	262	10.0	25	18	--	--	--
18...	1245	3270	13.0	3880	34300	--	--	--
MAR								
21...	1540	487	12.0	27	36	--	--	--
APR								
14...	1345	142	13.0	7	2.7	--	--	--
MAY								
08...	1545	82	15.0	6	1.3	--	--	--
JUN								
24...	1530	38	21.0	14	1.4	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
17...	--	--	--	--	--	--	--	--
NOV								
12...	--	--	--	--	--	--	--	--
DEC								
06...	--	--	--	--	--	--	--	--
JAN								
03...	--	--	--	--	--	--	--	--
31...	57	67	74	82	87	94	99	100
FEB								
04...	--	--	96	--	--	--	--	--
18...	--	--	32	--	--	--	--	--
MAR								
21...	--	--	--	--	--	--	--	--
APR								
14...	--	--	--	--	--	--	--	--
MAY								
08...	--	--	--	--	--	--	--	--
JUN								
24...	--	--	--	--	--	--	--	--

SAN LORENZO RIVER BASIN

11161300 CARBONERA CREEK AT SCOTT'S VALLEY, CA

LOCATION.--Lat 37°03'02", long 120°00'45", in San Augustin Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank at east city limits of Scott's Valley, 1.1 mi upstream from Glen Canyon Road, 3.3 mi east of Felton, and 4.1 mi upstream from Branciforte Creek.

DRAINAGE AREA.--3.60 mi².

PERIOD OF RECORD.--February 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 934 ft³/s, Mar. 15, 1986, gage height, 9.48 ft, from rating curve extended above 190 ft³/s on basis of slope-area measurement of peak flow; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s (revised) and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 12	1915	794	8.63	Mar. 10	0015	547	7.36
Feb. 17	1415	697	8.11	Mar. 15	0630	*934	*9.48

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	11	1.3	28	3.5	4.1	.53	.20	.01		0
2	.08	0	111	1.2	40	3.1	3.7	.52	.17	.01		0
3	.08	0	43	4.2	56	2.7	3.8	1.3	.12	.02		0
4	.06	0	7.7	163	20	2.5	3.6	1.2	.12	.01		0
5	.09	.03	6.5	38	11	2.3	4.2	.61	.11	.01		0
6	.07	0	3.0	13	7.1	2.1	3.7	.67	.09	.06		0
7	.09	0	2.6	6.6	5.1	22	2.8	.55	.09	.15		0
8	.08	0	1.7	4.2	3.9	101	2.6	.51	.09	.01		0
9	.06	.03	1.4	3.0	3.1	71	2.3	.41	.08	0		0
10	.05	7.7	1.4	2.2	2.5	127	2.1	.39	.08	.02		0
11	.03	.56	1.1	1.7	2.3	87	1.7	.42	.11	.03		0
12	.07	.10	.92	1.3	228	51	1.5	.40	.13	.02		0
13	.05	.08	.91	1.3	118	47	1.5	.38	.10	.02		0
14	.07	.08	.91	2.3	203	17	2.0	.36	.09	.02		0
15	.06	.08	.79	1.4	96	208	2.3	.39	.22	.02		0
16	.06	.08	.79	26	186	91	2.6	.38	.05	.13		0
17	.04	.07	.69	17	352	35	1.2	.25	.03	.02		.71
18	.10	.06	.67	6.1	173	23	.88	.23	.03	.03		.03
19	.08	.04	.69	4.0	118	16	.88	.24	.05	.03		0
20	.10	.05	.66	3.1	47	12	.87	.25	.02	.02		0
21	12	.06	.59	2.4	26	10	1.0	.26	.02	.04		0
22	.10	.06	.59	2.8	18	8.8	1.3	.22	.01	.07		0
23	.07	.07	.59	2.8	14	7.5	1.2	.21	.02	.08		0
24	.06	68	.59	1.7	11	6.9	1.1	.22	.02	.06		3.2
25	.04	6.6	.67	1.4	6.6	6.3	1.0	.21	.04	.07		.33
26	.04	.95	.63	1.3	5.3	6.0	.66	.17	.03	.06		.04
27	.04	.69	.59	1.2	4.5	5.3	.54	.15	.03	.06		2.3
28	.03	8.5	.59	1.0	3.8	5.0	.56	.15	.01	.07		.27
29	.04	24	9.4	12	---	4.5	.54	.15	.01	.06		.04
30	.03	2.5	12	52	---	4.4	.56	.19	.01	0		.02
31	.02	---	1.8	98	---	4.5	---	.16	---	0		---
TOTAL	13.80	120.40	225.47	477.5	1789.2	993.4	56.79	12.08	2.18	1.21	0	6.94
MEAN	.45	4.01	7.27	15.4	63.9	32.0	1.89	.39	.073	.039	0	.23
MAX	12	68	111	163	352	208	4.2	1.3	.22	.15	0	3.2
MIN	.01	0	.59	1.0	2.3	2.1	.54	.15	.01	0	0	0
AC-FT	27	239	447	947	3550	1970	113	24	4.3	2.4	0	14
CAL YR 1985	TOTAL	1850.90	MEAN	5.07	MAX	999	MIN	0	AC-FT	3670		
WTR YR 1986	TOTAL	3698.97	MEAN	10.1	MAX	352	MIN	0	AC-FT	7340		

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA

LOCATION.--Lat. 37°15'39", long 122°19'40", in SW 1/4 sec.5, T.8.S., R.4 W., San Mateo County, Hydrologic Unit 18050006, on left bank at downstream side of highway bridge, 3.0 mi east of Pescadero, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--45.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.3 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5-12, Dec. 20 to Jan. 6, and May 5-7. Records fair. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

AVERAGE DISCHARGE.--35 years, 45.1 ft³/s, 32,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft³/s, Dec. 23, 1955, gage height, 21.27 ft, from rating curve extended above 2,700 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*), from rating curve extended above 1,000 ft³/s on basis of slope-area measurement at gage height 20.92 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1615	3,210	12.03	Mar. 10	0715	1,310	7.74
Feb. 17	2145	*5,270	*15.52				

Minimum daily, 1.8 ft³/s, Oct. 6, 7, 12, 13, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.1	18	7.6	197	96	59	22	10	6.2	3.9	3.9
2	3.1	2.1	64	6.8	156	89	55	21	10	6.0	3.7	3.7
3	2.6	2.1	58	6.6	153	90	52	22	10	5.9	3.7	3.8
4	2.4	2.1	47	18	119	80	50	23	10	5.7	3.7	3.7
5	1.9	2.1	49	48	78	67	49	20	9.3	5.7	3.5	3.7
6	1.8	2.1	33	37	57	62	48	20	7.8	5.7	3.5	3.5
7	1.8	2.1	18	21	45	68	45	19	9.6	5.4	3.6	3.6
8	1.9	2.1	11	16	36	506	43	19	9.3	5.5	3.4	3.7
9	2.1	2.1	9.4	14	30	249	42	18	9.0	5.4	3.5	3.7
10	2.1	4.2	8.2	11	26	819	41	17	8.8	5.4	3.7	3.7
11	2.0	13	7.6	9.3	24	534	39	17	8.3	5.4	3.7	3.6
12	1.8	8.8	25	8.5	50	513	38	17	8.1	5.4	3.7	3.5
13	1.8	5.6	6.5	7.5	511	448	36	16	8.1	5.3	3.7	3.4
14	1.9	4.1	6.2	7.8	1260	325	34	16	8.1	5.1	3.7	3.5
15	2.0	3.5	6.0	10	803	548	35	15	7.9	5.1	3.7	3.7
16	1.8	3.6	5.8	12	935	637	37	15	7.9	4.8	3.5	3.7
17	2.1	4.2	5.5	91	2580	384	34	14	7.8	4.8	3.8	4.4
18	2.3	4.3	5.2	45	1640	274	32	14	8.0	4.8	3.9	5.4
19	2.2	4.0	5.1	30	1330	215	30	14	7.6	4.8	3.7	5.3
20	2.5	3.8	5.0	23	562	174	29	14	7.5	4.6	3.7	4.9
21	16	3.8	4.8	19	366	147	28	13	7.2	4.8	3.7	4.4
22	13	3.8	4.9	16	282	127	27	13	7.2	4.6	3.7	4.2
23	5.6	3.9	4.9	16	224	112	27	12	7.0	4.5	3.7	4.3
24	3.9	15	4.8	13	195	100	26	12	6.8	4.5	3.7	7.8
25	2.8	40	4.6	12	155	91	25	12	6.6	4.5	3.7	7.2
26	2.5	16	4.7	11	131	83	25	12	6.4	4.4	3.7	5.8
27	2.4	10	4.8	11	113	77	23	11	6.4	4.1	3.4	7.6
28	2.4	12	4.7	10	103	72	22	11	6.4	4.2	3.5	8.2
29	2.3	30	6.8	13	---	68	23	11	6.4	4.2	3.7	4.9
30	2.2	29	17	39	---	64	22	11	6.4	4.2	3.9	4.2
31	2.1	---	14	277	---	62	---	11	---	3.9	3.9	---
TOTAL	97.9	241.5	469.5	867.1	12161	7181	1076	482	239.9	154.9	113.9	137.0
MEAN	3.16	8.05	15.1	28.0	434	232	35.9	15.5	8.00	5.00	3.67	4.57
MAX	16	40	64	277	2580	819	59	23	10	6.2	3.9	8.2
MIN	1.8	2.1	4.6	6.6	24	62	22	11	6.4	3.9	3.4	3.4
AC-FT	194	479	931	1720	24120	14240	2130	956	476	307	226	272

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-80, October 1985 to June 1986 (discontinued).

CHEMICAL DATA: Water year 1977.

WATER TEMPERATURE: Water years 1965-80.

SEDIMENT DATA: Water years 1971, 1973, 1980, October 1985 to June 1986 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 1965 to February 1979.

SUSPENDED-SEDIMENT DISCHARGE: December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
16...	1215	1.8	12.0	23	0.11	--
NOV						
05...	1305	2.1	12.5	4	0.02	--
DEC						
16...	1215	5.8	4.0	6	0.09	--
JAN						
07...	1055	23	9.0	14	0.87	--
30...	1340	32	10.5	32	2.8	99
FEB						
05...	1325	73	9.5	30	5.9	91
11...	1635	23	7.5	11	0.68	--
15...	1230	960	12.0	3980	10300	74
26...	1500	119	7.0	163	52	68
MAR						
06...	1435	57	14.0	51	7.8	90
APR						
15...	1710	35	12.0	4	0.38	--
MAY						
13...	1715	16	17.0	5	0.22	--
JUN						
18...	1450	6.4	21.5	17	0.29	--

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT								
16...	1250	12.0	1	1.8	1	2	5	12
16...	1252	12.0	1	1.8	1	1	3	11
16...	1255	12.0	1	1.8	1	2	3	16
16...	1258	12.0	1	1.8	1	1	3	10
16...	1300	12.0	1	1.8	1	3	7	40
JAN								
10...	1540	--	1	10	1	2	7	21
10...	1545	--	1	10	--	1	5	26
10...	1550	--	1	10	1	1	3	15
FEB								
11...	1645	7.5	1	23	--	1	2	15
11...	1647	7.5	1	23	--	--	1	12
11...	1650	7.5	1	23	1	2	10	48
APR								
15...	1725	12.0	1	35	1	4	20	77
15...	1727	12.0	1	35	1	2	7	27
15...	1729	12.0	1	35	--	1	5	15
15...	1730	12.0	1	35	1	1	8	34

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
16...	42	56	62	71	78	85	100
16...	28	38	46	60	80	93	100
16...	43	56	65	75	88	100	--
16...	23	28	31	37	47	65	100
16...	78	86	89	94	100	--	--
JAN							
10...	39	50	60	73	91	100	--
10...	79	94	97	98	100	--	--
10...	51	69	79	86	99	100	--
FEB							
11...	37	50	65	80	96	100	--
11...	44	55	61	68	83	93	100
11...	72	76	78	80	84	84	100
APR							
15...	96	97	98	99	100	--	--
15...	40	46	52	60	76	100	--
15...	25	33	42	54	71	100	--
15...	69	80	85	89	95	100	--

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

PARTICLE SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT								
16...	1220	12.0	--	1.8	16.0	0.0	--	--
NOV								
05...	1310	12.5	--	2.1	17.0	0.0	--	--
DEC								
16...	1220	4.0	--	5.8	36.0	0.0	--	--
JAN								
07...	1100	9.0	16	23	22.0	0.0	--	--
FEB								
15...	1320	12.0	8	883	41.0	206	1	10
26...	1520	7.0	10	120	33.0	115	--	1
MAR								
06...	1455	14.0	16	57	32.0	33	--	1
MAY								
13...	1716	17.0	--	16	30.0	0.0	--	--
JUN								
18...	1451	21.5	--	6.4	16.0	0.0	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT							
16...	--	--	--	--	--	--	--
NOV							
05...	--	--	--	--	--	--	--
DEC							
16...	--	--	--	--	--	--	--
JAN							
07...	--	--	--	--	--	--	--
FEB							
15...	40	68	77	84	91	96	100
26...	30	88	96	98	99	100	--
MAR							
06...	24	78	92	97	99	100	--
MAY							
13...	--	--	--	--	--	--	--
JUN							
18...	--	--	--	--	--	--	--

SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

LOCATION.--Lat 37°19'33", long 122°23'08", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, on right bank at downstream side of bridge on Old Coast Highway, 0.1 mi south of town of San Gregorio, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--50.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 11.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 19-25, Apr. 10-16, and Aug. 27-29. Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 44.3 ft³/s, 32,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,910 ft³/s, Jan. 4, 1982, gage height, 21.28 ft, from rating curve extended above 560 ft³/s on basis of slope-area measurement of peak flow; no flow many days in 1972 and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*), from rating curve extended above 790 ft³/s on basis of slope-area measurement at gage height 21.28 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 31	1230	1,330	6.41	Mar. 10	0315	2,060	8.34
Feb. 19	0045	*3,860	*11.83				

Minimum daily, 0.35 ft³/s, Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	8.2	7.1	149	55	61	17	13	4.2	1.8	.77
2	.87	1.5	63	6.3	206	50	56	17	12	4.3	2.1	1.2
3	1.2	1.5	41	6.1	186	46	54	19	12	4.2	2.8	1.3
4	.96	1.5	20	28	101	42	53	18	12	4.2	2.8	1.6
5	.98	1.7	18	55	72	39	51	17	12	4.0	2.6	1.6
6	1.0	1.7	16	31	56	39	52	16	11	4.0	2.3	1.7
7	1.2	1.8	22	14	42	59	49	16	10	4.4	1.9	1.9
8	1.5	1.9	24	9.4	33	664	47	16	9.8	4.3	1.1	2.4
9	1.6	1.9	16	7.2	27	340	45	15	9.1	3.3	1.4	2.5
10	1.5	4.0	10	5.8	23	1130	43	14	8.3	3.2	2.8	2.6
11	1.5	8.4	8.6	4.9	21	704	41	14	8.2	3.1	2.6	2.3
12	1.4	4.2	7.3	4.4	96	584	38	13	7.6	3.1	2.5	2.1
13	1.2	2.7	6.6	4.1	427	656	36	13	7.3	3.7	2.2	2.6
14	1.1	2.1	5.5	4.4	1560	346	33	13	7.1	3.8	1.7	3.0
15	.92	1.9	5.5	7.6	526	701	32	13	8.0	3.6	1.6	3.2
16	.96	2.1	5.3	7.9	834	935	30	13	7.2	4.1	1.3	3.6
17	.87	2.2	5.0	165	2250	507	29	12	6.0	3.7	2.1	4.1
18	.94	2.2	4.5	51	1340	336	26	12	5.9	4.0	2.0	4.9
19	1.0	2.1	4.4	26	1090	260	25	12	5.6	4.0	1.3	4.2
20	1.1	2.0	4.2	19	591	190	24	13	5.7	3.6	.66	3.8
21	12	2.1	4.2	13	267	150	23	13	5.3	3.1	.45	3.8
22	4.5	2.3	4.3	11	167	130	22	12	5.7	3.7	.60	3.8
23	2.0	2.3	4.3	12	128	115	22	12	5.9	3.7	.91	3.5
24	1.6	11	4.1	9.3	121	100	22	12	5.6	3.0	1.5	9.3
25	1.4	28	4.0	7.7	96	90	22	12	4.8	2.8	1.7	8.1
26	1.3	7.0	4.1	6.8	82	82	21	12	5.1	3.1	1.1	4.7
27	1.3	3.6	4.2	6.1	71	74	20	12	5.1	3.7	.35	13
28	1.3	9.4	4.1	5.5	62	70	20	12	5.5	3.5	.40	6.4
29	1.4	42	7.2	20	---	66	19	12	5.6	3.3	.60	4.5
30	1.4	20	19	36	---	63	18	11	5.6	3.1	.85	4.0
31	1.4	---	9.7	517	---	62	---	12	---	2.1	.99	---
TOTAL	52.60	176.6	364.3	1108.6	10624	8685	1034	425	232.0	111.9	49.01	112.47
MEAN	1.70	5.89	11.8	35.8	379	280	34.5	13.7	7.73	3.61	1.58	3.75
MAX	12	42	63	517	2250	1130	61	19	13	4.4	2.8	13
MIN	.87	1.5	4.0	4.1	21	39	18	11	4.8	2.1	.35	.77
AC-FT	104	350	723	2200	21070	17230	2050	843	460	222	97	223
CAL YR 1985	TOTAL	5905.60	MEAN	16.2	MAX	1200	MIN	.24	AC-FT	11710		
WTR YR 1986	TOTAL	22975.48	MEAN	62.9	MAX	2250	MIN	.35	AC-FT	45570		

SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1985 to June 1986 (discontinued).

SEDIMENT DATA: October 1985 to June 1986 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
16...	1405	0.78	16.5	3	0.01	--	--	--
NOV								
06...	1455	1.7	14.0	2	0.01	--	--	--
DEC								
17...	1430	4.1	8.0	4	0.04	--	--	--
JAN								
06...	1405	23	11.5	31	1.9	--	--	--
FEB								
01...	1305	110	10.0	227	67	--	--	--
11...	1235	21	8.5	11	0.62	--	--	--
14...	1415	2960	8.0	8310	66400	--	--	--
20...	1550	453	13.5	1800	2200	22	30	39
24...	1445	115	7.5	244	76	--	--	--
MAR								
25...	1300	78	12.0	51	11	--	--	--
APR								
18...	1130	26	15.0	8	0.56	--	--	--
MAY								
14...	1215	12	19.0	4	0.13	--	--	--
JUN								
19...	1125	5.5	19.0	9	0.13	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
16...	--	--	--	--	--	--	--
NOV							
06...	--	--	--	--	--	--	--
DEC							
17...	--	--	--	--	--	--	--
JAN							
06...	--	--	94	--	--	--	--
FEB							
01...	--	--	90	--	--	--	--
11...	--	--	--	--	--	--	--
14...	--	--	78	--	--	--	--
20...	50	60	69	80	89	97	100
24...	--	--	66	--	--	--	--
MAR							
25...	--	--	80	--	--	--	--
APR							
18...	--	--	--	--	--	--	--
MAY							
14...	--	--	--	--	--	--	--
JUN							
19...	--	--	--	--	--	--	--

SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT								
16...	1450	16.5	1	0.78	1	2	4	16
16...	1453	16.5	1	0.78	1	2	5	18
16...	1455	16.5	1	0.78	--	1	2	10
16...	1458	16.5	1	0.78	--	1	3	10
16...	1500	16.5	1	0.78	--	--	1	4
FEB								
11...	1250	8.5	1	21	--	--	1	1
11...	1255	8.5	1	21	--	--	--	--
11...	1300	8.5	1	21	--	--	1	3
11...	1305	8.5	1	21	1	2	7	18
11...	1310	8.5	1	21	--	1	4	17
MAR								
25...	1420	12.0	1	78	--	1	6	32
25...	1425	12.0	1	78	--	--	--	--
25...	1430	12.0	1	78	--	--	--	--
25...	1435	12.0	1	78	--	--	--	3
25...	1440	12.0	1	78	--	--	1	8
APR								
18...	1145	15.0	1	26	3	7	21	42
18...	1146	15.0	1	26	1	1	5	18
18...	1147	15.0	1	26	--	1	3	12
18...	1148	15.0	1	26	--	1	2	8
18...	1149	15.0	1	26	--	1	6	51

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
16...	29	39	50	67	89	100	--
16...	26	30	34	40	56	68	100
16...	17	22	28	40	62	100	--
16...	14	17	22	33	60	100	--
16...	7	9	12	18	43	74	100
FEB							
11...	2	5	9	18	46	82	100
11...	1	1	2	3	16	47	100
11...	5	6	8	12	22	86	100
11...	33	43	52	65	87	100	--
11...	38	46	52	62	81	100	--
MAR							
25...	77	96	99	100	--	--	--
25...	3	8	17	32	71	88	100
25...	--	1	2	5	13	70	100
25...	13	20	30	42	74	100	--
25...	29	50	66	76	86	100	--
APR							
18...	53	62	73	85	95	100	--
18...	27	36	52	70	89	100	--
18...	24	29	31	35	43	65	100
18...	10	12	14	20	35	100	--
18...	94	99	100	--	--	--	--

SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT							
16...	1410	16.5	--	0.78	8.50	0.0	--
NOV							
06...	1500	14.0	--	1.7	14.0	0.0	--
DEC							
17...	1435	8.0	--	4.1	16.0	0.0	--
JAN							
06...	1415	11.5	14	23	29.0	0.0	--
FEB							
01...	1310	10.0	10	110	32.0	11	3
11...	1240	8.5	--	21	31.0	0.0	--
24...	1515	7.5	16	113	32.0	30	3
MAR							
25...	1315	12.0	15	78	30.0	13	2
DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT							
16...	--	--	--	--	--	--	--
NOV							
06...	--	--	--	--	--	--	--
DEC							
17...	--	--	--	--	--	--	--
JAN							
06...	--	--	--	--	--	--	--
FEB							
01...	23	45	54	63	70	87	100
11...	--	--	--	--	--	--	--
24...	34	79	89	93	97	98	100
MAR							
25...	33	80	94	98	99	100	--

PILARCITOS CREEK BASIN

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION.--Lat 37°28'00", long 122°25'59", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank 50 ft downstream from State Highway 1, 0.3 mi northwest of town of Half Moon Bay, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--27.2 mi².

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 25 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 17, 1983, at site 800 ft downstream at different datum.

REMARKS.--Estimated daily discharges: June 19 to Aug. 11. Records fair except for estimated discharges and discharges below 1.5 ft³/s, which are poor. Flow slightly regulated by storage in Pilarcitos Lake 10 mi upstream, capacity, 3,100 acre-ft. Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).--20 years, 16.8 ft³/s, 12,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s, Jan. 4, 1982, gage height, 13.08 ft, site and datum then in use, from rating curve extended above 1,000 ft³/s on basis of contracted-opening measurement of peak flow; no flow at times in most year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*), from rating curve extended above 200 ft³/s on basis of slope-area measurement at gage height 9.97 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 31	1045	269	4.26	Feb. 18	2330	*2,240	*9.97
Feb. 14	1530	911	7.09	Mar. 10	0300	1,030	7.03

No flow Oct. 5, 11, 13-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	3.2	9.0	2.9	35	23	17	6.5	3.5	1.5	.70	.39
2	.22	2.4	22	2.7	54	20	14	6.8	3.4	1.5	.70	.20
3	.27	2.4	13	3.3	60	18	13	9.8	3.3	1.5	.70	.20
4	.60	2.6	6.0	13	37	15	12	7.7	3.7	1.5	.70	.22
5	0	2.2	4.6	11	28	14	13	6.8	3.1	1.4	.60	.28
6	.23	1.5	3.6	8.6	21	13	13	6.9	2.9	1.4	.60	.70
7	1.2	1.0	9.5	6.5	17	22	12	7.4	3.0	1.4	.60	.42
8	1.2	1.1	6.3	4.9	14	110	12	6.5	3.5	1.4	.60	.78
9	.33	1.6	4.2	4.5	13	112	12	5.7	3.2	1.3	.50	.26
10	.04	2.1	3.0	4.3	11	383	11	5.6	2.1	1.3	.50	.02
11	0	2.2	2.6	3.8	10	212	12	6.3	2.6	1.3	.50	.09
12	.02	1.2	2.4	3.9	15	185	11	5.6	2.8	1.3	.88	.14
13	0	.96	2.3	4.0	28	200	11	6.0	3.1	1.2	1.5	.55
14	0	1.5	2.2	5.8	302	117	11	5.6	2.5	1.2	1.4	.66
15	0	1.4	2.2	5.0	156	175	14	5.9	3.2	1.2	.79	.55
16	0	1.4	2.2	16	242	197	15	4.9	2.4	1.2	.52	.85
17	.23	1.4	2.1	43	936	118	12	4.7	2.4	1.1	1.0	1.5
18	.41	1.3	2.2	16	696	91	12	5.5	1.9	1.1	1.1	.65
19	.44	1.4	2.2	10	667	74	8.6	4.6	1.8	1.1	.23	.23
20	2.9	1.6	2.3	8.5	218	64	6.5	5.3	1.7	1.1	.16	.64
21	17	1.7	2.9	7.4	131	55	6.4	5.4	1.7	1.0	.06	.33
22	7.7	1.4	2.4	6.9	90	51	6.7	5.0	1.7	1.0	.09	.09
23	8.4	1.1	2.4	7.1	68	44	6.8	4.5	1.7	1.0	.86	.17
24	6.2	16	2.6	6.0	51	38	6.6	4.1	1.7	1.0	2.7	12
25	6.3	10	2.4	5.4	44	34	7.4	4.6	1.7	.90	1.3	2.0
26	3.4	5.5	2.7	4.9	38	30	5.8	4.3	1.6	.90	.45	1.8
27	3.2	3.8	2.8	4.5	31	24	5.3	3.9	1.6	.90	.50	5.7
28	2.9	14	2.4	4.2	27	20	5.7	4.2	1.6	.90	.47	1.0
29	2.6	17	5.1	12	---	18	5.7	3.6	1.6	.80	.44	.55
30	2.6	8.0	4.5	9.6	---	18	5.9	3.1	1.6	.80	.31	.35
31	3.6	---	3.2	77	---	17	---	3.1	---	.80	.48	---
TOTAL	72.23	112.96	137.3	322.7	4040	2512	304.4	169.9	72.6	36.00	21.94	33.32
MEAN	2.33	3.77	4.43	10.4	144	81.0	10.1	5.48	2.42	1.16	.71	1.11
MAX	17	17	22	77	936	383	17	9.8	3.7	1.5	2.7	12
MIN	0	.96	2.1	2.7	10	13	5.3	3.1	1.6	.80	.06	.02
AC-FT	143	224	272	640	8010	4980	604	337	144	71	44	66

COLMA CREEK BASIN

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, Hydrologic Unit 18050004, on left bank in Orange Memorial Park, 1.0 mi southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft above National Geodetic Vertical Datum of 1929. Recording rain gages at Skyline College, altitude, 700 ft at site 2.9 mi southwest of gaging station and on San Bruno Mountain, altitude, 930 ft at site 2.7 mi northwest of gaging station.

REMARKS.--Estimated daily discharges: June 1 to Sept. 30. Records fair except for period of estimated record (during channel improvements) which are poor. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--22 years, 7.66 ft³/s, 5,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s Jan. 16, 1973, gage height, 11.80 ft; no flow Oct. 5, 26, 1963 and many days in August 1985.

DATA FOR 1986 WATER YEAR NOT AVAILABLE AT TIME OF PUBLICATION

REDWOOD CREEK BASIN

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, Hydrologic Unit 18050004, at Menlo Country Club, on right bank 200 ft upstream from Alameda de las Pulgas bridge, and 2.5 mi south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi².

PERIOD OF RECORD.--September 1959 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 17 to Jan. 28. Records good, except for estimated daily discharges, Dec. 17 to Jan. 28, which are fair. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--27 years, 1.23 ft³/s, 891 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s, Jan. 31 1963, gage height, 9.36 ft, from rating curve extended above 180 ft³/s on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft, Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	0815	143	4.45	Feb. 18	2115	*586	*8.87
Jan. 17	Unknown	210	5.25	Mar. 11	2130	154	4.55
Feb. 14	1400	231	5.48				

Minimum daily, 0.01 ft³/s, several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.02	.90	.31	2.7	1.7	.99	.43	.16	.10	.06	.03
2	.02	.02	15	.28	6.4	1.6	.96	.43	.18	.05	.06	.03
3	.01	.02	2.4	.29	5.5	1.5	1.1	.47	.15	.04	.05	.08
4	.01	.03	.78	6.0	1.8	1.5	1.6	.55	.17	.05	.06	.04
5	.01	.03	.57	1.9	1.2	1.4	1.2	.42	.16	.04	.06	.03
6	.02	.03	.42	1.3	.97	1.4	1.3	.41	.13	.03	.06	.03
7	.03	.04	1.2	.84	.82	4.8	.96	.38	.12	.05	.05	.03
8	.03	.04	.44	.61	.72	34	.98	.36	.11	.05	.07	.04
9	.03	.10	.37	.47	.73	9.3	.93	.35	.12	.03	.07	.04
10	.03	1.1	.32	.38	.98	28	.90	.32	.09	.03	.06	.03
11	.04	.17	.27	.36	.61	21	.85	.32	.10	.03	.10	.04
12	.04	.07	.25	.38	15	8.2	.85	.33	.11	.03	.03	.08
13	.04	.05	.25	.47	5.9	12	.89	.29	.11	.03	.06	.03
14	.03	.05	.25	.56	50	3.5	.86	.29	.09	.03	.06	.03
15	.01	.05	.22	.66	27	17	.85	.28	.09	.03	.03	.03
16	.01	.05	.22	4.0	48	18	.93	.29	.10	.03	.03	.05
17	.02	.05	.19	14	99	4.0	.76	.26	.09	.03	.03	.07
18	.01	.05	.20	5.0	55	2.7	.74	.27	.08	.04	.04	.04
19	.02	.05	.25	1.2	32	2.2	.74	.30	.07	.04	.03	.07
20	.21	.06	.25	.89	11	2.0	.77	.27	.07	.05	.04	.04
21	1.8	.06	.25	.80	5.0	1.8	.78	.26	.07	.06	.05	.03
22	.04	.06	.25	3.5	3.7	1.7	.76	.23	.11	.04	.06	.04
23	.04	.09	.20	2.1	3.3	1.5	.75	.22	.08	.04	.09	.04
24	.03	5.4	.20	1.3	2.8	1.4	.74	.20	.07	.05	.05	.41
25	.03	.52	.20	.90	2.2	1.3	.71	.22	.07	.04	.06	.12
26	.03	.21	.19	.64	2.1	1.3	.71	.20	.07	.04	.06	.03
27	.03	.17	.20	.46	1.9	1.2	.70	.21	.07	.04	.06	.67
28	.03	3.3	.25	.34	1.8	1.2	.70	.18	.05	.05	.06	.04
29	.02	8.4	2.0	2.1	---	1.1	.62	.18	.05	.05	.05	.04
30	.02	.55	2.2	1.0	---	1.1	.45	.17	.08	.05	.04	.04
31	.02	---	.37	20	---	1.0	---	.18	---	.05	.03	---
TOTAL	2.74	20.84	31.06	73.04	388.13	190.4	26.08	9.27	3.02	1.32	1.66	2.32
MEAN	.088	.69	1.00	2.36	13.9	6.14	.87	.30	.10	.043	.054	.077
MAX	1.8	8.4	15	20	99	34	1.6	.55	.18	.10	.10	.67
MIN	.01	.02	.19	.28	.61	1.0	.45	.17	.05	.03	.03	.03
AC-FT	5.4	41	62	145	770	378	52	18	6.0	2.6	3.3	4.6

CAL YR 1985 TOTAL 241.06 MEAN .66 MAX 55 MIN .01 AC-FT 478
WTR YR 1986 TOTAL 749.88 MEAN 2.05 MAX 99 MIN .01 AC-FT 1490

SAN FRANCISQUITO CREEK BASIN

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, at golf course, on right bank 1.1 mi downstream from Los Trancos Creek, 1.1 mi west of Stanford University Post Office, and 5 mi downstream of Searsville Lake.

DRAINAGE AREA.--37.4 mi².

PERIOD OF RECORD.--October 1930 to September 1941, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 115.75 ft above National Geodetic Vertical Datum of 1929. Recording raingage at 345 Middlefield Road in Menlo Park, 2.5 mi northeast of gage.

REMARKS.--Estimated daily discharges: Jan. 29 to Feb. 24. Records good except for period of estimated daily record which are fair. Flow slightly regulated by Searsville Lake, capacity, 952 acre-ft. Diversions of about 800 acre-ft each year above station to Los Trancos and Lagunita Canals for irrigation on Stanford University campus below station. Low flow affected by wastewater from Stanford Linear Accelerator.

AVERAGE DISCHARGE.--47 years, 20.8 ft³/s, 15,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft³/s, Dec. 22, 1955, gage height, 13.60 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	Unknown	*3,480	*9.33	Mar. 17	0615	807	4.20
Mar. 8	0645	1,540	5.79				

Minimum daily, 0.24 ft³/s, June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.34	2.3	2.2	85	39	23	3.4	1.6	.69	.79	.43
2	.43	.28	39	2.0	98	31	20	4.2	1.5	.60	.81	.57
3	.41	.34	10	1.8	75	25	18	3.6	.81	.66	.84	.99
4	.31	.43	3.8	22	50	22	16	5.3	.39	.55	.86	1.2
5	.35	.38	2.8	13	25	24	17	4.8	.24	.55	.85	.48
6	.31	.40	2.2	6.7	16	27	23	4.5	.64	.50	.95	.48
7	.38	.47	2.8	4.3	12	44	21	4.1	1.2	.66	.90	.50
8	.38	.50	2.3	2.6	9.0	700	18	3.7	1.2	.86	.83	.51
9	.36	.41	2.0	2.2	7.0	265	16	3.7	.84	.87	.77	.48
10	.33	2.5	1.8	2.1	5.7	640	14	3.6	.28	.86	.75	.51
11	.34	1.1	1.8	2.0	5.4	320	13	3.6	1.1	.84	.78	.41
12	.44	.78	2.2	2.1	130	319	12	3.8	1.1	.83	.78	.47
13	.39	.50	1.7	2.1	115	285	12	2.6	.89	.81	.75	.51
14	.37	.49	1.7	2.4	1300	151	11	2.3	.89	.97	.85	.59
15	.41	.45	1.8	3.1	1000	359	12	2.3	.64	.87	1.0	.62
16	.51	.36	1.8	8.2	900	456	14	2.3	1.1	.82	.70	.67
17	.48	.35	1.7	49	2600	191	12	2.0	1.0	.72	.69	.97
18	.53	.38	1.7	9.0	1750	126	9.7	1.9	.97	.72	.67	.84
19	.51	.44	1.9	4.0	1880	93	8.8	2.5	.91	.73	.64	.61
20	.48	.49	1.9	4.0	700	83	8.4	2.4	.78	.81	.62	.67
21	6.7	.50	1.9	7.2	220	70	7.5	1.9	.87	.68	.75	.53
22	1.1	.46	1.9	11	140	63	6.1	1.7	.87	1.0	.71	.52
23	.68	.49	1.7	8.3	90	56	5.3	1.1	.87	.77	.73	.42
24	.58	13	1.7	6.1	68	49	4.9	1.2	.87	.70	.74	1.6
25	.53	5.1	1.7	4.9	53	41	4.6	1.4	.91	.63	.70	.97
26	.47	1.6	1.6	4.5	52	36	4.7	1.4	.96	.74	.73	.65
27	.46	1.1	1.7	4.3	43	27	4.5	1.1	4.4	.71	.71	2.4
28	.44	9.7	2.4	4.3	35	25	4.4	.92	.98	.68	.73	.76
29	.39	21	6.8	4.5	---	28	4.0	.83	.83	.72	.69	.64
30	.45	3.8	7.5	25	---	28	3.7	.97	.77	.81	.34	.59
31	.45	---	3.1	140	---	27	---	1.6	---	.78	.37	---
TOTAL	20.43	68.14	119.2	364.9	11464.1	4650	348.6	80.72	30.41	23.14	23.03	21.59
MEAN	.66	2.27	3.85	11.8	409	150	11.6	2.60	1.01	.75	.74	.72
MAX	6.7	21	39	140	2600	700	23	5.3	4.4	1.0	1.0	2.4
MIN	.31	.28	1.6	1.8	5.4	22	3.7	.83	.24	.50	.34	.41
AC-FT	41	135	236	724	22740	9220	691	160	60	46	46	43
a	.83	2.80	1.85	1.95	6.89	4.05	.46	.12	0	0	0	.34

CAL YR 1985	TOTAL	2775.45	MEAN	7.60	MAX	775	MIN	.22	AC-FT	5510
WTR YR 1986	TOTAL	17214.26	MEAN	47.2	MAX	2600	MIN	.24	AC-FT	34140

MATADERO CREEK BASIN

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on Ash Street 150 ft upstream from Lambert Avenue Bridge, and 2.1 mi southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.26 mi².

PERIOD OF RECORD.--July 1952 to current year.

REVISED RECORDS.--WDR CA-80-2: 1971-74, 1978, 1971-72(P), WDR CA-82-2: 1973-74, 1978(P).

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--34 years, 2.45 ft³/s, 1,780 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s, Jan. 24, 1983, gage height, 6.51 ft, from rating extended above 600 ft³/s on basis of step-backwater computation at gage heights 7.63 ft and 8.00 ft, and slope-conveyance computations at 5.97 ft and 6.87 ft; maximum gage height, 9.88 ft, Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1415	823	4.37	Mar. 8	0445	329	2.61
Feb. 18	2115	*1,030	*5.45	Mar. 15	1615	337	2.64

Minimum daily, 0.08 ft³/s, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.15	2.0	.70	5.2	2.6	2.7	1.5	.90	.50	.32	.13
2	.13	.09	15	.55	20	2.2	2.5	1.4	.92	.45	.31	.15
3	.13	.10	3.3	3.3	21	2.1	2.5	2.0	.84	.46	.23	.24
4	.20	.10	1.1	9.4	4.6	2.1	2.5	2.3	.94	.41	.22	.34
5	.18	.13	1.2	2.2	2.5	2.1	3.2	1.2	.96	.48	.29	.54
6	.15	.18	.69	1.1	2.2	2.1	3.9	1.1	.86	.48	.33	.30
7	.14	.23	2.6	.84	1.5	10	2.6	1.0	.86	.48	.29	.33
8	.18	.29	.71	.74	1.4	82	2.2	1.1	.80	.48	.35	.36
9	.18	.31	.58	.63	1.1	30	2.2	1.1	.73	.45	.36	.22
10	.23	5.3	.58	.63	.94	86	2.1	.93	.74	.48	.29	.17
11	.17	1.0	.56	.63	1.1	34	2.0	.99	.49	.55	.26	.22
12	.10	.34	.48	.63	21	23	1.9	.97	.57	.55	.32	.26
13	.09	.47	.48	.64	13	27	1.6	1.1	.69	.48	.43	.19
14	.08	.34	.48	.80	210	8.8	1.7	1.1	.59	.48	.32	.23
15	.11	.23	.53	.90	108	88	3.7	1.1	.63	.55	.36	.22
16	.19	.35	.48	1.8	78	84	3.6	1.1	.52	.41	.30	.19
17	.23	.24	.48	1.9	223	15	1.8	.95	.48	.41	.24	.52
18	.25	.37	.57	.77	144	8.8	1.6	.90	.51	.35	.24	.33
19	.15	.23	.40	.63	80	6.8	1.5	.94	.77	.35	.24	.31
20	1.7	.29	.44	.63	19	5.6	1.3	1.0	.84	.48	.26	.24
21	15	.24	.40	.63	9.1	5.3	1.3	1.0	.88	.33	.38	.20
22	.35	.28	.35	.73	6.5	4.7	1.5	.86	1.2	.35	.38	.22
23	.31	1.4	.35	.84	5.5	4.2	1.6	1.0	.91	.37	.35	.31
24	.18	18	.35	.66	4.3	3.9	1.5	.87	.80	.36	.30	2.5
25	.28	1.8	.35	.63	3.7	3.6	1.5	.90	.72	.40	.32	.95
26	.18	.54	.39	.63	3.4	3.4	1.4	.76	.74	.42	.57	.86
27	.16	.49	.39	.63	3.0	3.1	1.5	.81	.69	.38	.44	5.2
28	.09	6.9	.39	.59	2.7	3.0	1.4	.77	.62	.33	.33	.46
29	.18	13	14	3.8	---	3.0	1.4	.86	.56	.40	.27	.47
30	.21	1.0	3.8	4.4	---	2.7	1.6	.93	.49	.35	.31	.46
31	.13	---	.87	36	---	2.8	---	.87	---	.27	.19	---
TOTAL	21.76	54.39	54.30	78.96	995.74	561.9	61.8	33.41	22.25	13.24	9.80	17.12
MEAN	.70	1.81	1.75	2.55	35.6	18.1	2.06	1.08	.74	.43	.32	.57
MAX	15	18	15	36	223	88	3.9	2.3	1.2	.55	.57	5.2
MIN	.08	.09	.35	.55	.94	2.1	1.3	.76	.48	.27	.19	.13
AC-FT	43	108	108	157	1980	1110	123	66	44	26	19	34

CAL YR 1985	TOTAL	447.19	MEAN	1.23	MAX	64	MIN	.08	AC-FT	887
WTR YR 1986	TOTAL	1924.67	MEAN	5.27	MAX	223	MIN	.08	AC-FT	3820

PERMANENTE CREEK BASIN

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA

LOCATION.--Lat 37°19'43", long 122°05'03", in NW 1/4 NE 1/4 sec.16, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, on left bank on downstream side of private road bridge, 0.8 mi upstream from West Fork Permanent Creek tributary, 1.5 mi northwest of Monta Vista, and 2.8 mi southwest of Los Altos.

DRAINAGE AREA.--3.86 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 380 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 27 to Mar. 5. Records fair except for period of estimated daily discharges, which is poor. Some regulation of flow by rock quarry 1.1 mi upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 571 ft³/s, Feb. 18, 1986, gage height, 7.28, from rating curve extended above 76 ft³/s on basis of slope-area measurement of peak flow; no flow Oct. 6, 1985, and Aug. 14-16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 31	1600	63	4.67	Mar. 10	0345	175	5.40
Feb. 14	1345	486	6.91	Mar. 16	0300	98	4.92
Feb. 18	2200	*571	*7.28				

No flow Oct. 6 and Aug. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.13	1.7	.62	2.9	7.3	8.5	4.2	3.2	.62	.06	.01
2	.09	.14	7.3	.69	6.5	7.0	7.9	4.1	3.0	.61	.33	.01
3	.05	.12	2.1	.74	6.5	6.7	7.4	4.1	1.8	.60	.50	.01
4	.03	.18	1.9	2.4	4.6	6.5	7.2	4.1	1.4	.51	.34	.01
5	.01	.17	1.8	1.3	4.3	6.4	7.0	3.9	1.6	.50	.09	.12
6	0	.16	1.6	1.1	3.9	7.0	7.1	3.6	1.3	.48	.09	.43
7	.03	.14	1.7	.97	3.3	7.7	7.6	4.1	1.8	.47	.07	.46
8	.05	.11	1.5	.80	3.0	21	8.0	4.4	1.8	.44	.04	.27
9	.06	.09	1.5	.75	2.7	16	8.3	4.4	1.5	.42	.05	.34
10	.05	1.8	1.3	.76	2.7	43	6.6	4.6	1.1	.37	.06	.62
11	.08	.51	1.3	.74	2.8	23	5.4	4.3	1.0	.32	.08	.77
12	.06	.26	1.1	.71	8.7	20	5.4	4.0	1.0	.36	.08	.55
13	.06	.25	1.3	.71	6.3	19	6.4	3.9	1.0	.45	.06	.11
14	.06	.20	1.4	.95	82	16	5.3	4.1	1.0	.50	0	.13
15	.08	.26	1.6	.88	139	25	5.6	4.1	1.0	.50	0	.11
16	.07	.37	1.3	1.3	66	32	5.0	3.7	.99	.43	0	.07
17	.10	.24	1.0	1.1	162	22	4.7	3.8	.98	.29	.01	.18
18	.09	.39	.93	1.1	146	17	5.4	3.7	1.4	.25	.02	.30
19	.08	.36	.91	1.1	175	17	5.6	3.2	1.6	.23	.02	.33
20	.07	.22	.87	1.2	48	17	5.5	2.9	1.6	.23	.04	.33
21	1.8	.23	.82	1.2	26	15	5.4	2.8	1.6	.19	.04	.32
22	.21	.21	.83	.85	19	15	5.5	2.8	1.4	.17	.04	.24
23	.31	.25	.82	.85	15	14	5.2	2.9	.90	.18	.03	.44
24	.39	3.8	.77	.74	13	13	4.0	3.0	.87	.14	.04	.66
25	.35	1.1	.72	.79	11	11	4.8	3.0	.83	.14	.03	.55
26	.17	.68	.72	.78	9.4	11	5.3	2.8	.82	.13	.02	.44
27	.17	.67	.66	.77	8.3	11	4.8	2.7	.81	.14	.02	.91
28	.28	2.0	.65	.81	7.6	9.5	4.6	3.0	.77	.13	.02	.52
29	.14	4.2	2.1	1.7	---	11	4.4	3.1	.70	.08	.03	.40
30	.16	1.5	.83	2.3	---	11	4.2	2.9	.68	.08	.02	.27
31	.14	---	.69	10	---	9.3	---	3.0	---	.06	.01	---
TOTAL	5.32	20.74	43.72	40.71	985.5	467.4	178.1	111.2	39.45	10.02	2.24	9.91
MEAN	.17	.69	1.41	1.31	35.2	15.1	5.94	3.59	1.32	.32	.072	.33
MAX	1.8	4.2	7.3	10	175	43	8.5	4.6	3.2	.62	.50	.91
MIN	0	.09	.65	.62	2.7	6.4	4.0	2.7	.68	.06	0	.01
AC-FT	11	41	87	81	1950	927	353	221	78	20	4.4	20

CAL YR 1985 TOTAL 358.34 MEAN .98 MAX 11 MIN 0 AC-FT 711
WTR YR 1986 TOTAL 1914.31 MEAN 5.24 MAX 175 MIN 0 AC-FT 3800

PERMANENTE CREEK BASIN

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

SEDIMENT DISCHARGE, TOTAL (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER				DECEMBER	
1	.08	2	.00	.13	1	.00	1.7	161	1.2
2	.09	2	.00	.14	1	.00	7.3	844	23
3	.05	2	.00	.12	1	.00	2.1	84	.48
4	.03	2	.00	.18	1	.00	1.9	72	.37
5	.01	2	.00	.17	1	.00	1.8	65	.32
6	.00	2	.00	.16	1	.00	1.6	61	.26
7	.03	2	.00	.14	1	.00	1.7	59	.27
8	.05	2	.00	.11	1	.00	1.5	58	.23
9	.06	2	.00	.09	2	.00	1.5	58	.23
10	.05	2	.00	1.8	40	.33	1.3	57	.20
11	.08	2	.00	.51	31	.04	1.3	45	.16
12	.06	2	.00	.26	28	.02	1.1	22	.07
13	.06	2	.00	.25	24	.02	1.3	18	.06
14	.06	2	.00	.20	18	.01	1.4	21	.08
15	.08	2	.00	.26	17	.01	1.6	26	.11
16	.07	2	.00	.37	17	.02	1.3	30	.11
17	.10	2	.00	.24	17	.01	1.0	25	.07
18	.09	2	.00	.39	17	.02	.93	21	.05
19	.08	2	.00	.36	16	.02	.91	18	.04
20	.07	12	.00	.22	16	.01	.87	15	.04
21	1.8	42	.37	.23	15	.01	.82	15	.03
22	.21	3	.00	.21	15	.01	.83	15	.03
23	.31	2	.00	.25	15	.01	.82	15	.03
24	.39	2	.00	3.8	91	1.1	.77	15	.03
25	.35	2	.00	1.1	45	.15	.72	15	.03
26	.17	2	.00	.68	34	.06	.72	15	.03
27	.17	2	.00	.67	22	.04	.66	15	.03
28	.28	2	.00	2.0	51	.33	.65	15	.03
29	.14	2	.00	4.2	104	1.6	2.1	32	.23
30	.16	1	.00	1.5	54	.22	.83	24	.05
31	.14	1	.00	---	---	---	.69	21	.04
TOTAL	5.32	---	0.37	20.74	---	4.04	43.72	---	27.91
JANUARY				FEBRUARY				MARCH	
1	.62	13	.02	2.9	---	1.6	7.3	3200	63
2	.69	5	.01	6.5	---	81	7.0	2200	42
3	.74	10	.04	6.5	---	71	6.7	1200	22
4	2.4	50	.39	4.6	61	.76	6.5	310	5.4
5	1.3	19	.07	4.3	53	.62	6.4	200	3.5
6	1.1	17	.05	3.9	52	.55	7.0	200	3.8
7	.97	11	.03	3.3	53	.47	7.7	4260	98
8	.80	5	.01	3.0	52	.42	21	4160	354
9	.75	5	.01	2.7	50	.36	16	---	407
10	.76	5	.01	2.7	47	.34	43	---	1690
11	.74	9	.02	2.8	28	.21	23	3820	239
12	.71	12	.02	8.7	193	9.3	20	---	438
13	.71	12	.02	6.3	170	2.9	19	---	440
14	.95	12	.03	82	---	6030	16	---	329
15	.88	12	.03	139	---	9390	25	---	596
16	1.3	20	.09	66	---	2310	32	---	496
17	1.1	17	.05	162	---	8090	22	---	163
18	1.1	12	.04	146	---	7230	17	---	82
19	1.1	12	.04	175	---	9730	17	---	74
20	1.2	12	.04	48	---	1500	17	---	73
21	1.2	11	.04	26	---	684	15	---	62
22	.85	10	.02	19	---	516	15	---	61
23	.85	12	.03	15	---	359	14	---	55
24	.74	15	.03	13	---	304	13	---	51
25	.79	11	.02	11	5200	154	11	---	47
26	.78	6	.01	9.4	5800	147	11	---	46
27	.77	7	.01	8.3	5100	114	11	---	46
28	.81	8	.02	7.6	4200	86	9.5	250	6.4
29	1.7	39	.29	---	---	---	11	270	8.0
30	2.3	---	1.6	---	---	---	11	266	7.9
31	10	---	195	---	---	---	9.3	190	4.8
TOTAL	40.71	---	198.09	985.5	---	46813.53	467.4	---	6013.8

PERMANENTE CREEK BASIN

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

SEDIMENT DISCHARGE, TOTAL (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	8.5	120	2.8	4.2	26	.29	3.2	37	.32
2	7.9	110	2.3	4.1	26	.29	3.0	37	.30
3	7.4	105	2.1	4.1	26	.29	1.8	37	.18
4	7.2	640	12	4.1	25	.28	1.4	37	.14
5	7.0	840	16	3.9	26	.27	1.6	36	.16
6	7.1	670	13	3.6	21	.20	1.3	35	.12
7	7.6	155	3.2	4.1	18	.20	1.8	35	.17
8	8.0	330	7.1	4.4	14	.17	1.8	34	.17
9	8.3	480	11	4.4	15	.18	1.5	32	.13
10	6.6	665	12	4.6	16	.20	1.1	31	.09
11	5.4	812	12	4.3	17	.20	1.0	25	.07
12	5.4	759	11	4.0	17	.18	1.0	21	.06
13	6.4	675	12	3.9	18	.19	1.0	20	.05
14	5.3	655	9.4	4.1	19	.21	1.0	19	.05
15	5.6	635	9.6	4.1	20	.22	1.0	19	.05
16	5.0	610	8.2	3.7	21	.21	.99	19	.05
17	4.7	516	6.5	3.8	22	.22	.98	19	.05
18	5.4	332	4.8	3.7	22	.22	1.4	19	.07
19	5.6	263	4.0	3.2	22	.19	1.6	21	.09
20	5.5	223	3.3	2.9	23	.17	1.6	32	.14
21	5.4	186	2.7	2.8	23	.17	1.6	27	.12
22	5.5	148	2.2	2.8	23	.17	1.4	20	.08
23	5.2	109	1.5	2.9	24	.19	.90	15	.04
24	4.0	77	.83	3.0	24	.19	.87	13	.03
25	4.8	61	.79	3.0	24	.19	.83	12	.03
26	5.3	55	.79	2.8	30	.23	.82	12	.03
27	4.8	48	.62	2.7	36	.26	.81	11	.02
28	4.6	41	.51	3.0	37	.30	.77	11	.02
29	4.4	33	.39	3.1	37	.31	.70	10	.02
30	4.2	27	.31	2.9	37	.29	.68	10	.02
31	---	---	---	3.0	37	.30	---	---	---
TOTAL	178.1	---	172.94	111.2	---	6.98	39.45	---	2.87
JULY			AUGUST			SEPTEMBER			
1	.62	9	.02	.06	2	.00	.01	5	.00
2	.61	9	.01	.33	3	.00	.01	5	.00
3	.60	9	.01	.50	4	.01	.01	5	.00
4	.51	8	.01	.34	4	.00	.01	5	.00
5	.50	8	.01	.09	4	.00	.12	5	.00
6	.48	8	.01	.09	4	.00	.43	5	.01
7	.47	8	.01	.07	3	.00	.46	5	.01
8	.44	7	.01	.04	3	.00	.27	5	.00
9	.42	7	.01	.05	3	.00	.34	5	.00
10	.37	7	.01	.06	3	.00	.62	5	.01
11	.32	7	.01	.08	7	.00	.77	5	.01
12	.36	7	.01	.08	7	.00	.55	5	.01
13	.45	7	.01	.06	7	.00	.11	5	.00
14	.50	7	.01	.00	0	.00	.13	5	.00
15	.50	7	.01	.00	0	.00	.11	5	.00
16	.43	7	.01	.00	0	.00	.07	5	.00
17	.29	7	.01	.01	7	.00	.18	5	.00
18	.25	7	.00	.02	7	.00	.30	5	.00
19	.23	7	.00	.02	7	.00	.33	5	.00
20	.23	7	.00	.04	7	.00	.33	5	.00
21	.19	7	.00	.04	7	.00	.32	5	.00
22	.17	7	.00	.04	6	.00	.24	5	.00
23	.18	7	.00	.03	5	.00	.44	5	.01
24	.14	7	.00	.04	5	.00	.66	5	.01
25	.14	7	.00	.03	5	.00	.55	5	.01
26	.13	7	.00	.02	5	.00	.44	6	.01
27	.14	7	.00	.02	5	.00	.91	8	.02
28	.13	7	.00	.02	5	.00	.52	5	.01
29	.08	7	.00	.03	5	.00	.40	5	.01
30	.08	7	.00	.02	5	.00	.27	5	.00
31	.06	3	.00	.01	5	.00	---	---	---
TOTAL	10.02	---	0.18	2.24	---	0.01	9.91	---	0.13

PERMANENTE CREEK BASIN

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
31...	0905	22	11.0	4080	242	40	51	63
31...	1005	40	11.0	11300	1220	41	51	64

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN							
31...	81	88	92	95	97	99	100
31...	82	91	96	97	98	99	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN									
30...	0815	12.0	6	31	12.0	4.2	1	2	6
FEB									
14...	1615	14.0	7	48	13.0	44	--	1	3
14...	1620	14.0	7	60	13.0	82	--	--	2
15...	1120	--	7	76	13.0	339	--	--	1
18...	1350	14.0	11	60	--	634	--	--	--
20...	0910	12.5	11	43	13.0	827	--	--	--
21...	1225	13.5	10	26	13.0	338	--	--	--
24...	1035	14.0	9	15	12.0	194	--	--	1
26...	1025	15.0	11	7.7	12.0	276	--	--	2
MAR									
11...	1040	13.0	--	23	11.0	347	--	--	1
13...	0920	12.0	11	22	13.0	306	--	--	--
17...	1020	12.5	11	23	13.0	77	--	--	1
19...	1135	14.0	10	17	13.0	63	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
JAN									
30...	22	37	48	57	65	73	100	--	--
FEB									
14...	11	18	26	38	51	66	84	100	--
14...	6	13	26	43	57	70	88	100	--
15...	5	10	18	31	48	67	88	100	--
18...	4	11	24	40	57	75	86	98	100
20...	3	8	17	38	55	74	88	100	--
21...	5	11	22	40	55	72	85	100	--
24...	8	22	34	47	60	79	93	100	--
26...	16	28	41	58	74	90	98	100	--
MAR									
11...	7	16	30	46	63	79	98	100	--
13...	6	15	27	42	59	80	92	100	--
17...	14	28	41	56	68	82	92	100	--
19...	6	17	29	40	54	75	91	100	--

PERMANENTE CREEK BASIN

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA

LOCATION.--Lat 37°19'59", long 122°05'58", in NE 1/4 SW 1/4 sec.8, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.9 mi upstream from mouth, 2.6 mi northwest of Monta Vista, and 2.7 mi south of Los Altos.

DRAINAGE AREA.--2.98 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: June 1-19. Records fair except for period of estimated discharges, which is poor. No regulation; several stock ponds upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft³/s, Feb. 18, 1986, gage height, 6.56 ft, from rating curve extended above 49 ft³/s; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1330	116	6.37	Mar. 10	0400	44	5.74
Feb. 18	2245	*140	*6.56				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	5.6	4.6	1.3	.72	.23	.08	
2					0	5.0	4.6	1.3	.69	.30	.05	
3					0	4.6	4.6	1.3	.65	.23	.05	
4					0	4.1	4.3	1.3	.61	.23	.05	
5					0	4.1	4.1	1.3	.59	.23	.03	
6					0	3.9	4.1	1.3	.58	.23	.03	
7					0	4.1	3.9	1.3	.57	.23	.03	
8					0	12	3.9	1.3	.55	.23	.05	
9					0	7.4	3.7	1.1	.53	.23	.05	
10					0	28	3.4	1.1	.51	.23	.05	
11					0	17	3.4	1.1	.49	.23	.08	
12					0	25	3.2	1.1	.48	.23	.08	
13					0	24	3.0	1.1	.47	.17	.05	
14					12	19	2.8	1.1	.46	.08	.05	
15					26	26	2.6	.97	.44	.12	.05	
16					15	31	2.5	.97	.43	.12	.05	
17					39	20	2.3	.97	.42	.12	.05	
18					51	17	2.3	.97	.40	.12	.03	
19					70	15	2.3	.97	.39	.12	.03	
20					36	12	2.3	.97	.39	.12	.03	
21					25	10	2.1	.84	.39	.08	.03	
22					21	9.5	2.1	.84	.30	.12	.02	
23					15	8.8	1.9	.84	.39	.12	.01	
24					11	7.9	1.9	.84	.39	.12	.01	
25					9.5	7.3	1.7	.84	.49	.12	0	
26					7.9	7.0	1.6	.84	.49	.12	0	
27					6.7	6.4	1.6	.84	.49	.12	0	
28					5.6	5.8	1.6	.84	.39	.12	0	
29					---	5.3	1.4	.73	.49	.08	0	
30					---	5.0	1.3	.84	.39	.08	0	
31		---			---	4.8	---	.73	---	.08	0	---
TOTAL	0	0	0	0	350.7	362.6	85.1	31.84	14.58	4.96	1.04	0
MEAN	0	0	0	0	12.5	11.7	2.84	1.03	.49	.16	.034	0
MAX	0	0	0	0	70	31	4.6	1.3	.72	.30	.08	0
MIN	0	0	0	0	0	3.9	1.3	.73	.30	.08	0	0
AC-FT	0	0	0	0	696	719	169	63	29	9.8	2.1	0
CAL YR 1985	TOTAL	52.83	MEAN	.14	MAX	1.1	MIN	0	AC-FT	105		
WTR YR 1986	TOTAL	850.82	MEAN	2.33	MAX	70	MIN	0	AC-FT	1690		

PERMANENTE CREEK BASIN

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985 to current year.

WATER TEMPERATURE: Water years 1985 to current year.

SEDIMENT DATA: Water years 1985 to current year.

PERIOD OF DAILY RECORD,--

WATER TEMPERATURE: March 1985 to current year.

SEDIMENT DISCHARGE: February 1985 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. No flow Oct. 1 to Feb. 13, Aug. 25 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,850 mg/L, Feb. 19, 1986; minimum daily mean, no flow many days in each year.

SEDIMENT LOAD: Maximum daily, 380 tons, Feb. 19, 1986; minimum daily, 0 ton many days in each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,850 mg/L, Feb. 19; minimum daily mean, no flow many days.

SEDIMENT LOAD: Maximum daily, 380 tons, Feb. 19; minimum daily, 0 ton many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	---	---	---	---	---	---	
2					---	---	---	---		---	---	
3					---		---	---	16.0	---	---	
4					---	14.0	---	---	---	---	---	
5					---	14.0	---	---	---	---	---	
6					---	---	---	---	---	---	---	
7					---	---	14.0		---	---	---	
8					---	14.0	---	14.0	---	---	---	
9					---	---	---		---	---	---	
10					---	13.0	---	---	---	16.5	---	
11					---	13.0	16.0	---	---	---	18.5	
12					---	---	---		---	---	---	
13					---	12.0	---	14.0	---	---	---	
14					13.0	---	---		---	---	---	
15					---	---	---	---	---	---	---	
16					12.0	10.0	13.0	---	---	---	---	
17					13.0	12.5	14.5	---	---	---	---	
18					13.5	---	---	---	---	---	---	
19					12.5	---	---	---	16.5	---	---	
20					12.5	13.0	---	---	17.0	---	---	
21					12.0	---	---	---	---	---	---	
22					13.0	---	---	---	---	---	---	
23					14.0	15.0	14.5	---	---	---	---	
24					13.0	---	---	---	---	---	---	
25					14.0	---	---	---	---	---	---	
26					14.0	---	---	---	---	---	---	
27					---	---	---	16.0	---	---	---	
28					14.0	16.0	---	---	---	---	---	
29					---	---	---	---	---	---	---	
30					---	---	---	---	---	---	---	
31					---	---	---	---	---	---	---	

PERMANENTE CREEK BASIN

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1			.00	0		.00	5.6	9	.14
2			.00	0		.00	5.0	11	.15
3			.00	0		.00	4.6	13	.16
4			.00	0		.00	4.1	14	.15
5			.00	0		.00	4.1	12	.13
6			.00	0		.00	3.9	11	.12
7			.00	0		.00	4.1	10	.11
8			.00	0		.00	12	221	8.5
9			.00	0		.00	7.4	120	2.4
10			.00	0		.00	28	505	42
11			.00	0		.00	17	217	11
12			.00	0		.00	25	156	11
13			.00	0		.00	24	142	9.6
14			12	1580	180	19	94	4.8	
15			26	1060	93	26	236	18	
16			15	384	17	31	435	40	
17			39	1470	258	20	146	7.9	
18			51	1840	348	17	120	5.5	
19			70	1850	380	15	107	4.3	
20			36	889	89	12	90	2.9	
21			25	342	23	10	72	1.9	
22			21	200	11	9.5	54	1.4	
23			15	85	3.4	8.8	25	.59	
24			11	41	1.2	7.9	14	.30	
25			9.5	31	.80	7.3	15	.30	
26			7.9	45	.96	7.0	16	.30	
27			6.7	32	.58	6.4	17	.29	
28			5.6	11	.17	5.8	18	.28	
29			---	---	---	5.3	18	.26	
30			---	---	---	5.0	18	.24	
31			---	---	---	4.8	18	.23	
TOTAL	0.00	---	0.00	350.70	---	1406.11	362.6	---	174.95
APRIL			MAY			JUNE			
1	4.6	18	.22	1.3	5	.02	.72	6	.01
2	4.6	18	.22	1.3	5	.02	.69	6	.01
3	4.6	18	.22	1.3	6	.02	.65	6	.01
4	4.3	17	.20	1.3	9	.03	.61	6	.01
5	4.1	17	.19	1.3	10	.04	.59	6	.01
6	4.1	17	.19	1.3	8	.03	.58	6	.01
7	3.9	168	1.8	1.3	8	.03	.57	6	.01
8	3.9	17	.18	1.3	8	.03	.55	6	.01
9	3.7	17	.17	1.1	12	.04	.53	6	.01
10	3.4	16	.15	1.1	15	.04	.51	6	.01
11	3.4	16	.15	1.1	16	.05	.49	5	.01
12	3.2	15	.13	1.1	18	.05	.48	5	.01
13	3.0	15	.12	1.1	19	.06	.47	5	.01
14	2.8	14	.11	1.1	16	.05	.46	5	.01
15	2.6	13	.09	.97	12	.03	.44	5	.01
16	2.5	12	.08	.97	12	.03	.43	5	.01
17	2.3	12	.07	.97	11	.03	.42	5	.01
18	2.3	11	.07	.97	10	.03	.40	5	.01
19	2.3	10	.06	.97	10	.03	.39	5	.01
20	2.3	9	.06	.97	9	.02	.39	5	.01
21	2.1	7	.04	.84	8	.02	.39	5	.01
22	2.1	6	.03	.84	8	.02	.30	5	.00
23	1.9	5	.03	.84	8	.02	.39	5	.01
24	1.9	5	.03	.84	8	.02	.39	5	.01
25	1.7	5	.02	.84	8	.02	.49	5	.01
26	1.6	5	.02	.84	8	.02	.49	5	.01
27	1.6	5	.02	.84	8	.02	.49	5	.01
28	1.6	5	.02	.84	8	.02	.39	6	.01
29	1.4	5	.02	.73	8	.02	.49	6	.01
30	1.3	5	.02	.84	7	.02	.39	6	.01
31	---	---	---	.73	6	.01	---	---	---
TOTAL	85.1	---	4.73	31.84	---	0.89	14.58	---	0.29

PERMANENTE CREEK BASIN

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	.23	6	.00	.08	5	.00			
2	.30	6	.00	.05	5	.00			
3	.23	6	.00	.05	4	.00			
4	.23	6	.00	.05	4	.00			
5	.23	6	.00	.03	4	.00			
6	.23	6	.00	.03	4	.00			
7	.23	7	.00	.03	4	.00			
8	.23	8	.00	.05	3	.00			
9	.23	8	.00	.05	3	.00			
10	.23	8	.00	.05	3	.00			
11	.23	8	.00	.08	2	.00			
12	.23	8	.00	.08	2	.00			
13	.17	8	.00	.05	2	.00			
14	.08	8	.00	.05	2	.00			
15	.12	7	.00	.05	2	.00			
16	.12	7	.00	.05	2	.00			
17	.12	7	.00	.05	2	.00			
18	.12	6	.00	.03	2	.00			
19	.12	6	.00	.03	2	.00			
20	.12	6	.00	.03	2	.00			
21	.08	5	.00	.03	2	.00			
22	.12	5	.00	.02	2	.00			
23	.12	5	.00	.01	2	.00			
24	.12	5	.00	.01	2	.00			
25	.12	5	.00	.00	0	.00			
26	.12	5	.00	.00	0	.00			
27	.12	5	.00	.00	0	.00			
28	.12	5	.00	.00	0	.00			
29	.08	5	.00	.00	0	.00			
30	.08	5	.00	.00	0	.00			
31	.08	5	.00	.00	0	.00			
TOTAL	4.96	---	0.00	1.04	---	0.00	0.00	---	0.00
YEAR		850.82		1586.97					

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	0	0	0	0
NOVEMBER ...	0	0	0	0
DECEMBER ...	0	0	0	0
JANUARY 1986	0	0	0	0
FEBRUARY ...	350.70	1406.11	987	2390
MARCH	362.60	174.95	298	473
APRIL	85.10	4.73	0	5
MAY	31.84	.89	0	1
JUNE	14.58	.29	0	0
JULY	4.96	0	0	0
AUGUST	1.04	0	0	0
SEPTEMBER ...	0	0	0	0
TOTAL	850.82	1586.97	1285	2869

PERMANENTE CREEK BASIN

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB						
14...	1430	46	13.0	6140	763	87
14...	1510	24	13.0	4040	262	89
15...	1020	41	--	1550	172	76
16...	0900	12	12.0	285	9.2	78
17...	0930	20	--	431	23	75
17...	1500	52	13.0	1580	222	67
18...	1140	38	--	872	89	70
18...	1500	34	13.5	723	66	67
19...	1130	71	12.5	1530	293	68
21...	1040	21	12.0	569	32	40
22...	1630	18	14.0	168	8.2	52
23...	1600	12	14.0	78	2.5	54
MAR						
08...	1700	8.8	14.0	139	3.3	67
10...	1700	28	13.0	402	30	44
11...	1040	13	13.0	143	5.0	67
13...	0955	24	12.0	125	8.1	59
16...	1700	27	10.0	262	19	45
17...	1100	21	12.5	137	7.8	60
20...	1700	11	13.0	86	2.6	42
APR						
07...	1505	3.4	14.0	516	4.7	92

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
FEB									
14...	1500	13.0	8	29	12.0	2.7	1	3	11
15...	1030	--	7	39	13.0	21	1	1	3
17...	1440	13.0	8	50	13.0	14	1	1	4
18...	1155	--	7	40	13.0	40	--	--	1
18...	1525	13.5	10	33	12.0	56	--	--	1
19...	1115	12.5	11	71	14.0	335	--	--	1
20...	1040	12.5	11	34	14.0	185	--	--	--
21...	1100	12.0	10	21	14.0	96	--	--	1
24...	1150	13.0	12	12	9.20	15	--	--	--
26...	1145	14.0	13	8.5	8.40	2.5	--	--	--
28...	1415	14.0	--	6.4	9.30	0.0	--	--	--
MAR									
11...	1115	13.0	21	13	14.0	32	--	--	1
13...	1020	12.0	21	24	14.0	22	--	--	2
17...	1125	12.5	19	20	13.0	15	--	--	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
FEB								
14...	32	47	62	78	94	97	100	--
15...	17	33	52	70	82	93	99	100
17...	20	33	46	60	72	85	96	100
18...	8	14	25	43	67	88	100	--
18...	10	24	44	68	85	96	100	--
19...	5	16	34	56	75	92	99	100
20...	4	13	31	56	76	92	99	100
21...	6	15	30	57	82	98	100	--
24...	8	25	45	66	84	96	100	--
26...	5	14	25	41	66	92	100	--
28...	--	--	--	--	--	--	--	--
MAR								
11...	12	31	53	74	88	98	100	--

GUADALUPE RIVER BASIN

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam of Arroyo Calero, 1.7 mi northeast of New Almaden, and 6 mi southeast of Edenvale. DRAINAGE AREA, 6.93 mi². PERIOD OF RECORD (monthly contents), January 1936 to September 1985 (discontinued); water quality, 1981 to current year. Monthly contents prior to October 1959, published in WSP 1735. REVISED RECORDS, WRD CA-79-2: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft in 1936 and raised to 483.5 ft in 1962. Capacity, 10,160 acre-ft between elevations 393.7 ft, center of outlet tunnel, and 483.5 ft, crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s diverted from Almaden Reservoir to Calero Reservoir at times. For WATER-QUALITY RECORDS, see following page.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft, Apr. 7, 1967, elevation 485.21 ft; no contents at times in some years.

11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE 1/4 sec.29, T.8 S., R.1. W., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Los Gatos Creek, and 1.7 mi south of Los Gatos. DRAINAGE AREA, 36.9 mi². PERIOD OF RECORD (monthly contents), December 1952 to September 1985 (discontinued); water quality, 1983 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft between elevations 519 ft, invert at outlet tunnel, and 649.9 ft, crest of spillway. Dead storage, 31 acre-ft. Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 23,190 acre-ft, Mar. 16, 1967, elevation, 654.00 ft; no contents at times in most years.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVIOR NEAR NEW ALMADEN, CA--Continued

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1981 to current year.

BIOLOGICAL DATA: Water years 1981 to current year.

REMARKS.--Lake elevation furnished by Santa Clara Valley Water District.

AT DAM (LAT 37°10'57", long 121°47'25" T.9 S., R.2 E., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ELEV- ATION ABOVE NGVD (FEET)
MAR 1986									
05...	0928	0.50	272	8.60	16.0	755	10.9	112	477.80
05...	0929	1.0	272	8.60	16.0	755	10.8	111	477.80
05...	0930	2.0	272	8.60	16.0	755	10.6	109	477.80
05...	0931	3.0	274	8.10	15.0	755	8.4	84	477.80
05...	0932	4.0	275	8.00	14.0	755	7.6	74	477.80
05...	0933	5.0	274	7.90	13.0	755	7.6	73	477.80
05...	0934	6.0	275	8.00	12.5	755	7.9	75	477.80
05...	0935	7.0	274	8.00	12.5	755	8.0	75	477.80
05...	0936	8.0	276	8.00	12.0	755	8.1	76	477.80
05...	0937	9.0	277	8.00	12.0	755	7.9	74	477.80
05...	0938	10.0	280	7.90	12.0	755	8.2	77	477.80
05...	0939	11.0	284	7.90	12.0	755	7.9	74	477.80
05...	0940	12.0	287	7.90	12.0	755	7.9	74	477.80
05...	0941	13.0	288	7.90	12.0	755	7.9	74	477.80
05...	0942	14.0	288	7.90	12.0	755	7.9	74	477.80
05...	0943	15.0	290	7.90	11.5	755	7.8	73	477.80
05...	0944	16.0	292	7.90	11.5	755	7.8	73	477.80
05...	0945	17.0	292	7.90	11.5	755	7.6	71	477.80
05...	0946	18.0	294	7.90	11.5	755	7.7	72	477.80
05...	0947	19.0	295	7.90	11.5	755	7.5	70	477.80
05...	0948	20.0	295	7.90	11.5	755	7.5	70	477.80
05...	0949	21.0	295	7.80	11.5	755	7.3	68	477.80
05...	0950	22.0	312	7.60	11.5	755	4.9	45	477.80
05...	0951	23.0	310	7.60	11.5	755	4.9	45	477.80
05...	0952	24.0	310	7.60	11.5	755	4.9	45	477.80
05...	0953	25.0	311	7.50	11.5	755	4.9	45	477.80
05...	0954	26.0	312	7.50	11.5	755	4.5	42	477.80
JUN 1986									
11...	1055	0.50	312	8.20	22.5	750	7.4	87	471.09
11...	1056	1.0	312	8.20	22.5	750	7.4	87	471.09
11...	1057	2.0	312	8.20	22.5	750	7.3	86	471.09
11...	1058	3.0	312	8.30	22.5	750	7.3	86	471.09
11...	1059	4.0	312	8.30	22.5	750	7.1	83	471.09
11...	1100	5.0	310	8.30	21.0	750	6.5	74	471.09
11...	1101	6.0	309	8.20	21.0	750	5.7	65	471.09
11...	1102	7.0	307	8.00	20.0	750	4.3	48	471.09
11...	1103	8.0	304	7.90	19.0	750	3.2	35	471.09
11...	1104	9.0	302	7.90	18.5	750	2.6	28	471.09
11...	1105	10.0	301	7.80	17.5	750	2.4	26	471.09
11...	1106	11.0	299	7.80	17.5	750	2.3	24	471.09
11...	1107	12.0	298	7.80	16.5	750	2.6	27	471.09
11...	1108	13.0	298	7.80	16.5	750	2.5	26	471.09
11...	1109	14.0	297	7.80	16.5	750	2.6	27	471.09
11...	1110	15.0	297	7.70	16.5	750	2.4	25	471.09
11...	1111	16.0	296	7.70	16.0	750	2.6	27	471.09
11...	1112	17.0	296	7.70	16.0	750	2.5	26	471.09
11...	1113	18.0	297	7.70	16.0	750	2.4	25	471.09
11...	1114	19.0	296	7.60	16.0	750	2.4	25	471.09

GUADALUPE RIVER BASIN

11166740 CALERO RESERVIOR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ELEV- ATION ABOVE NGVD (FEET)
JUL 1986									
23...	0953	0.50	314	8.40	22.0	755	8.4	97	471.12
23...	0954	1.0	313	8.40	22.0	755	8.1	94	471.12
23...	0955	2.0	313	8.30	22.0	755	7.3	84	471.12
23...	0956	3.0	311	8.10	21.0	755	6.5	74	471.12
23...	0957	4.0	307	7.90	20.0	755	5.1	57	471.12
23...	0958	5.0	302	7.90	19.5	755	5.4	59	471.12
23...	0959	6.0	300	7.80	19.0	755	4.7	51	471.12
23...	1000	7.0	297	7.80	18.5	755	5.0	54	471.12
23...	1001	8.0	295	7.80	18.5	755	5.2	56	471.12
23...	1002	9.0	295	7.80	18.5	755	5.0	54	471.12
23...	1003	10.0	294	7.80	18.0	755	5.0	54	471.12
23...	1004	11.0	294	7.80	18.0	755	5.2	56	471.12
23...	1005	12.0	292	7.80	18.0	755	5.9	63	471.12
23...	1006	13.0	291	7.80	18.0	755	6.1	65	471.12
23...	1007	14.0	291	7.80	18.0	755	6.1	65	471.12
23...	1008	15.0	290	7.80	18.0	755	6.2	66	471.12
23...	1009	16.0	289	7.80	18.0	755	6.2	66	471.12
23...	1010	17.0	289	7.80	18.0	755	6.0	64	471.12
23...	1011	18.0	289	7.80	17.5	755	6.2	66	471.12
23...	1012	19.0	288	7.80	17.5	755	6.0	63	471.12
23...	1013	20.0	288	7.80	17.5	755	6.0	63	471.12
23...	1014	21.0	287	7.80	17.5	755	5.7	60	471.12

GUADALUPE RIVER BASIN

11166740 CALERO RESERVIOR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
MAR 1986										
05...	1025	1.0	272	8.60	16.0	755	10.8	111	120	12
05...	1055	4.0	275	8.00	14.0	755	7.6	74	110	8
05...	1120	20.0	295	7.90	11.5	755	7.5	70	120	8
JUN										
11...	1148	1.0	312	8.20	22.5	750	7.4	87	140	6
11...	1225	5.0	310	8.30	21.0	750	6.5	74	140	0
11...	1250	16.0	296	7.70	16.0	750	2.6	27	130	0
JUL										
23...	1100	1.0	313	8.40	22.0	755	8.1	94	140	7
23...	1140	4.0	307	7.90	20.0	755	5.1	57	140	3
23...	1210	17.0	289	7.80	18.0	755	6.0	64	130	7
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
MAR 1986										
05...	22	15	13		19	0.5	1.9	105	16	13
05...	22	14	13		20	0.5	1.8	105	17	13
05...	23	15	15		21	0.6	1.7	111	17	14
JUN										
11...	28	18	13		16	0.5	1.6	138	16	12
11...	27	17	12		16	0.5	1.6	138	22	12
11...	26	16	12		16	0.5	1.6	131	19	10
JUL										
23...	29	17	14		17	0.5	1.7	135	21	12
23...	28	16	13		17	0.5	1.8	133	21	11
23...	27	14	13		18	0.5	1.7	118	24	10
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
MAR 1986										
05...	0.20	12	160	0.190	0.010	0.200	0.010	<0.010	0.69	
05...	0.20	13	160	0.280	0.020	0.300	0.030	0.020	0.57	
05...	0.20	12	160	0.380	0.020	0.400	0.110	0.100	0.39	
JUN										
11...	0.10	9.6	180	--	<0.010	<0.100	0.030	0.010	0.37	
11...	0.10	9.5	180	--	<0.010	<0.100	0.020	0.020	0.38	
11...	0.10	13	180	--	<0.010	0.200	0.050	0.060	0.35	
JUL										
23...	0.20	10	190	--	<0.010	<0.100	0.020	0.050	0.48	
23...	0.10	10	180	--	<0.010	<0.100	0.030	0.050	0.57	
23...	0.10	11	170	--	<0.010	0.300	0.060	0.070	0.34	

See footnote at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVIOR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
MAR 1986									
05...	--	0.70	0.30	0.90	0.070	0.030	0.020	90	85
05...	0.38	0.60	0.40	0.90	0.060	0.030	0.030	70	100
05...	0.30	0.50	0.40	0.90	0.070	0.040	0.040	80	29
JUN									
11...	0.29	0.40	0.30	--	0.020	0.010	<0.010	80	8
11...	0.28	0.40	0.30	--	0.020	0.010	<0.010	90	4
11...	0.34	0.40	0.40	0.60	0.020	0.010	<0.010	90	11
JUL									
23...	0.45	0.50	0.50	--	0.030	0.030	<0.010	90	13
23...	0.25	0.60	0.30	--	0.030	<0.010	<0.010	90	12
23...	0.43	0.40	0.50	0.70	0.040	0.050	0.020	80	23

DATE	TIME	SAM- PLING DEPTH (M)	TUR- BID- ITY (NTU)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
MAR 1986					
05...	1025	1.0	14	26.0	0.800
JUN					
11...	1148	1.0	2.2	5.20	0.400
11...	1210	2.0	--	5.00	0.400
11...	1218	3.0	--	6.40	0.500
JUL					
23...	1100	1.0	7.0	19.0	2.90
23...	1120	2.0	3.4	19.0	2.90
23...	1130	3.0	4.5	13.0	2.20

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M)
MAR 1986		
05...	1019	0.70
JUN		
11...	1133	1.40
JUL		
23...	1104	0.98

< Actual value is know to be less than the value shown.

GUADALUPE RIVER BASIN--Continued

11166740 CALERO RESERVOIR NEAR ALMADEN, CA--Continued
AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	MARCH 5, 1986		JUNE 11, 1986	
TIME	1025	1148	1210	1218
DEPTH (M)	1.0	1.0	2.0	3.0
TOTAL CELLS/ML	20555	12823	15021	12530
ORGANISM	CELLS/ML	CELLS/MS	CELLS/ML	CELLS/ML

BACILLARIOPHYTA (Diatoms)

Order Centrales

<u>Cyclotella bodanica</u>	15	--	--	--
<u>Cyclotella meneghiniana</u>	30	--	--	--
<u>Cyclotella ocellata</u>	75	--	--	--
<u>Cyclotella pseudostelligera</u>	30	--	--	--
<u>Cyclotella stelligera</u>	1276	7	14	28
<u>Melosira granulata</u>				
var. <u>angustissima</u>	--	--	--	170
<u>Melosira lirata</u>	30	--	--	--
<u>Melosira sp.</u>	30	--	--	--
<u>Rhizosolenia eriensis</u>	--	28	28	28
<u>Stephanodiscus dubius</u>	--	28	28	--
<u>Stephanodiscus niagarae</u>	45	--	--	--

Order Pennales

<u>Achnanthes minutissima</u>	--	--	--	142
<u>Diploneis sp.</u>	--	--	7	--
<u>Navicula pellicosa</u>	--	--	--	57
<u>Nitzschia acicularis</u>	435	--	--	--
<u>Nitzschia microcephala</u>	15	--	--	--
<u>Nitzschia minuscula</u>	8	--	--	--
<u>Nitzschia palea</u>	45	--	--	--
<u>Nitzschia paleacea</u>	30	--	--	--
<u>Nitzschia pusilla</u>	30	--	--	--
<u>Nitzschia sp.</u>	--	28	--	--
<u>Synedra radians</u>	--	256	28	28
<u>Synedra rumpens</u>	23	7	7	7
<u>Synedra ulna var. danica</u>	--	369	682	398

CHLOROPHYTA (Green algae)

<u>Ankistrodesmus braunii</u>	--	--	--	28
<u>Ankistrodesmus falcatulus</u>				
var. <u>acicularis</u>	--	--	--	28
<u>Chlamydomonas sp. 1</u>	17	28	--	--
<u>Chlamydomonas sp. 2</u>	68	--	--	--
<u>Chlorella sp.</u>	--	28	--	57
<u>Chlorococcum sp.</u>	--	571	596	369
<u>Coelastrum sphaericum</u>	--	--	341	--
<u>Coelastrum sp.</u>	239	--	--	--
<u>Eudorina elegans</u>	--	--	625	--
<u>Gloeocystis sp.</u>	102	--	28	--
<u>Golenkinia radiata</u>	--	57	--	--
<u>Kirchneriella contorta</u>	17	--	--	--
<u>Mesotaenium sp.</u>	119	114	426	369
<u>Micratinium pusillum</u>	--	341	--	85
<u>Nephrocytium agardhianum</u>	85	--	--	--
<u>Oocystis sp.</u>	256	--	--	--
<u>Pandorina charkowiensis</u>	153	--	--	--
<u>Pandorina morum</u>	136	--	--	--
<u>Pandorina sp.</u>	443	398	--	--
<u>Pteromonas sp.</u>	17	--	--	--
<u>Scenedesmus abundans</u>	--	57	--	--
<u>Scenedesmus bijuga</u>	136	--	--	--
<u>Schroederia setigera</u>	8	--	--	--
<u>Schroederia judayi</u>	17	--	--	--
<u>Selenastrum minutum</u>	--	57	--	57
<u>Tetraedron minimum</u>	--	454	--	227
<u>Treubaria crassispina</u>	--	--	28	28

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR ALMADEN, CA--Continued
AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	MARCH 5, 1986		JUNE 11, 1986	
TIME	1025	1148	1210	1218
DEPTH (M)	1.0	1.0	2.0	3.0
TOTAL CELLS/ML	20555	12823	15021	12530
ORGANISM	CELLS/ML	CELLS/MS	CELLS/ML	CELLS/ML
CHRYSOPHYTA (Golden-brown algae)				
<u>Dinobryon divergens</u>	--	28	--	--
<u>Kephyrion spirale</u>	17	--	--	--
<u>Mallomonas</u> sp.	--	28	28	57
CYANOPHYTA (Blue-green algae)				
<u>Anabaena spiroides</u>	--	--	511	--
<u>Aphanocapsa delicatissima</u>	--	1193	3067	1136
<u>Aphanocapsa elachista</u>	1022	--	--	--
<u>Chroococcus dispersus</u>	221	284	398	284
<u>Chroococcus limneticus</u>	--	3181	2045	1477
<u>Chroococcus</u> sp.	85	--	--	--
<u>Dactylococcopsis fascicularis</u>	188	4771	5453	6873
<u>Dactylococcopsis smithii</u>	57	--	--	--
<u>Oscillatoria</u> sp.	196	--	--	227
<u>Synechococcus</u> sp.	34	--	341	114
EUGLENOPHYTA (Euglenoids)				
<u>Euglena</u> sp.	--	28	--	--
<u>Trachelomonas</u> sp.	8	--	--	--
PYRRHOPHYTA (Dinoflagellates)				
<u>Peridinium inconspicua</u>	--	--	28	--
CRYPTOPHYTA (Cryptomonads)				
<u>Chroomonas</u> sp.	57	--	--	--
<u>Cryptomonas rostratiformis</u>	239	--	--	--
<u>Cryptomonas</u> sp. 1	17	--	--	--
<u>Cryptomonas</u> sp. 2	85	--	--	--
<u>Cryptomonas</u> sp.	--	56	--	--
<u>Cyathomonas truncata</u>	17	--	--	--
<u>Rhodomonas minuta</u>	14382	426	312	256
NUMBER OF SPECIES	45	26	22	25
DRY WEIGHT (MG/L)	5.5	2.6	3.3	2.4

Phytoplankton analyzed by Chadwick and Associates.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR ALMADEN, CA--Continued
AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	JULY 23, 1986		
TIME	1100	1120	1130
DEPTH (M)	1.0	2.0	3.0
TOTAL CELLS/ML	76455	696938	396322
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)			
Order Centrales			
<u>Cyclotella</u> sp.	57	--	--
<u>Melosira</u> <u>lirata</u>	2158	1704	568
CHLOROPHYTA (Green algae)			
<u>Ankistrodesmus</u> <u>braunii</u>	57	--	--
<u>Ankistrodesmus</u> <u>convolutus</u>	--	114	--
<u>Ankistrodesmus</u> <u>falcatus</u>	341	114	142
<u>Ankistrodesmus</u> <u>quaternatus</u>	454	--	568
<u>Chlorella</u> sp.	--	56800	39760
<u>Chlorococcum</u> <u>humicola</u>	4828	1590	710
<u>Coelastrum</u> <u>sphaericum</u>	114	--	--
<u>Coelastrum</u> sp.	2045	--	--
<u>Crucigenia</u> <u>tetrapedia</u>	--	454	--
<u>Dictyosphaerium</u> <u>pulchellum</u>	114	--	--
<u>Elakotothrix</u> <u>viridis</u>	57	114	568
<u>Gloeocystis</u> sp.	57	--	--
<u>Kirchneriella</u> <u>contorta</u>	398	114	568
<u>Mesotaenium</u> sp.	1136	3408	426
<u>Nephrocystium</u> sp.	57	909	1420
<u>Oocystis</u> <u>lacustris</u>	568	--	--
<u>Oocystis</u> sp.	3181	2272	1420
<u>Pediastrum</u> <u>boryanum</u>	--	--	994
<u>Scenedesmus</u> sp.	114	--	--
<u>Schroederia</u> <u>judayi</u>	1079	682	426
<u>Schroederia</u> <u>setigera</u>	227	--	--
<u>Selenastrum</u> <u>minutum</u>	227	114	--
<u>Sphaerocystis</u> <u>schroeteri</u>	1818	909	1136
<u>Tetraedron</u> <u>trigonum</u>	--	--	142
<u>Treubaria</u> <u>triappendiculata</u>	57	--	--
CYANOPHYTA (Blue-green algae)			
<u>Aphanocapsa</u> <u>delicatissima</u>	3862	18176	6816
<u>Aphanothece</u> sp.	909	--	2272
<u>Chroococcus</u> <u>dispersus</u> ?	48962	68160	34080
<u>Dactylococcopsis</u> <u>fasciculatus</u>	284	227	--
<u>Dactylococcopsis</u> sp. 1	114	341	568
<u>Dactylococcopsis</u> sp. 2	--	341	--
<u>Oscillatoria</u> <u>angustissima</u>	--	--	2840
<u>Oscillatoria</u> sp.	--	454	--
<u>Synechococcus</u> sp.	2726	538464	299904
PYRRHOPHYTA (Dinoflagellates)			
<u>Ceratium</u> <u>hirundinella</u>	--	227	--
CRYPTOPHYTA (Cryptomonads)			
<u>Rhodomonas</u> <u>minuta</u>	454	1250	994
NUMBER OF SPECIES	29	23	21
DRY WEIGHT (MG/L)	0.9	1.4	2.2

Phytoplankton analyzed by Chadwick and Associates.

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water year 1978-79, 1984 to current year.

BIOLOGICAL DATA: Water year 1978-79, 1984 to current year.

REMARKS.--Lake elevation furnished by Santa Clara Valley Water District.

AT DAM (Lat 37°11'57", long 121°59'12", T.9 S., R.9 W., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ELEV- ATION ABOVE NGVD (FEET)
DEC 1985									
19...	1003	0.50	649	7.70	8.0	755	10.1	86	555.99
19...	1004	1.0	649	7.70	7.5	755	10.1	86	555.99
19...	1005	2.0	649	7.70	7.5	755	10.0	85	555.99
19...	1006	3.0	648	7.60	7.5	755	9.9	84	555.99
19...	1007	4.0	649	7.50	7.5	755	9.8	83	555.99
19...	1008	5.0	648	7.50	7.5	755	9.8	83	555.99
19...	1009	6.0	649	7.50	7.5	755	9.8	83	555.99
19...	1010	7.0	649	7.50	7.5	755	9.7	82	555.99
19...	1011	8.0	649	7.50	7.5	755	9.7	82	555.99
19...	1012	9.0	650	7.40	7.5	755	9.7	81	555.99
19...	1013	10.0	650	7.50	7.5	755	9.7	81	555.99
JAN 1986									
28...	1122	0.50	625	8.00	11.0	750	9.4	87	564.48
28...	1123	1.0	625	7.90	11.0	750	9.4	86	564.48
28...	1124	2.0	625	7.90	11.0	750	9.2	85	564.48
28...	1125	3.0	625	7.80	11.0	750	9.4	86	564.48
28...	1126	4.0	625	7.80	11.0	750	9.1	84	564.48
28...	1127	5.0	625	7.80	11.0	750	9.0	83	564.48
28...	1128	6.0	625	7.80	10.5	750	9.0	82	564.48
28...	1129	7.0	625	7.80	10.5	750	8.8	80	564.48
28...	1130	8.0	626	7.80	10.5	750	8.4	76	564.48
28...	1131	9.0	626	7.70	10.5	750	8.4	76	564.48
28...	1132	10.0	627	7.70	10.0	750	8.4	76	564.48
28...	1133	11.0	627	7.70	10.0	750	8.1	73	564.48
MAR 1986									
05...	1342	0.50	226	8.00	16.0	750	8.5	87	648.38
05...	1343	1.0	225	7.90	15.0	750	8.5	86	648.38
05...	1344	2.0	225	7.90	14.5	750	8.4	84	648.38
05...	1345	3.0	231	7.90	13.5	750	8.4	82	648.38
05...	1346	4.0	232	7.90	13.0	750	8.4	81	648.38
05...	1347	5.0	225	7.80	13.0	750	8.4	81	648.38
05...	1348	6.0	218	7.70	12.5	750	8.2	78	648.38
05...	1349	7.0	221	7.70	12.0	750	8.1	77	648.38
05...	1350	8.0	211	7.70	12.0	750	8.4	79	648.38
05...	1351	9.0	208	7.70	12.0	750	8.5	80	648.38
05...	1352	10.0	207	7.60	12.0	750	8.3	78	648.38
05...	1353	11.0	206	7.60	12.0	750	8.2	77	648.38
05...	1354	12.0	205	7.60	12.0	750	8.4	79	648.38
05...	1355	13.0	203	7.60	12.0	750	8.3	78	648.38
05...	1356	14.0	203	7.60	11.5	750	8.3	78	648.38
05...	1357	16.0	201	7.60	11.5	750	8.4	79	648.38
05...	1358	18.0	200	7.60	11.5	750	8.5	80	648.38
05...	1359	20.0	197	7.60	11.5	750	8.5	80	648.38
05...	1400	22.0	200	7.50	11.5	750	8.5	80	648.38
05...	1401	24.0	195	7.50	11.5	750	8.3	78	648.38
05...	1402	26.0	198	7.50	11.5	750	8.3	78	648.38
05...	1403	28.0	196	7.50	11.5	750	8.2	77	648.38
05...	1404	30.0	195	7.50	11.5	750	8.4	79	648.38
05...	1405	32.0	192	7.50	11.5	750	8.4	79	648.38
05...	1406	34.0	190	7.50	11.5	750	8.3	78	648.38

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	ELEV- ATION ABOVE NGVD (FEET)
APR 1986									
16...	0955	0.50	245	8.00	15.0	750	7.9	80	648.70
16...	0956	1.0	245	8.00	15.0	750	7.8	78	648.70
16...	0957	2.0	245	8.00	15.0	750	7.7	77	648.70
16...	0958	2.0	245	8.00	15.0	750	7.9	79	648.70
16...	0959	4.0	245	8.00	15.0	750	7.8	78	648.70
16...	1000	5.0	245	8.00	15.0	750	7.8	78	648.70
16...	1001	6.0	245	8.00	15.0	750	7.8	78	648.70
16...	1002	7.0	247	7.90	14.5	750	7.4	74	648.70
16...	1003	8.0	253	7.70	13.5	750	7.2	71	648.70
16...	1004	9.0	251	7.70	13.5	750	7.1	69	648.70
16...	1005	10.0	248	7.70	13.0	750	7.2	70	648.70
16...	1006	11.0	243	7.60	13.0	750	7.1	68	648.70
16...	1007	12.0	236	7.60	12.5	750	7.1	68	648.70
16...	1008	13.0	233	7.60	12.5	750	6.9	66	648.70
16...	1009	14.0	232	7.50	12.0	750	6.6	63	648.70
16...	1010	15.0	228	7.50	12.0	750	6.9	65	648.70
16...	1011	16.0	224	7.60	12.0	750	7.1	67	648.70
16...	1012	17.0	224	7.50	12.0	750	7.1	67	648.70
16...	1013	18.0	223	7.50	12.0	750	7.0	66	648.70
16...	1014	19.0	224	7.50	12.0	750	7.0	66	648.70
16...	1015	20.0	222	7.50	12.0	750	7.2	68	648.70
16...	1016	21.0	222	7.50	12.0	750	7.1	67	648.70
16...	1017	22.0	221	7.50	12.0	750	7.0	66	648.70
16...	1018	23.0	221	7.50	11.5	750	7.1	67	648.70
16...	1019	24.0	220	7.50	11.5	750	7.1	67	648.70
MAY 1986									
15...	0948	0.50	263	8.10	18.0	745	8.1	88	646.02
15...	0949	1.0	263	8.10	18.0	745	8.1	88	646.02
15...	0950	2.0	262	8.10	18.0	745	7.9	85	646.02
15...	0951	3.0	262	8.10	18.0	745	8.0	86	646.02
15...	0952	4.0	262	8.10	18.0	745	7.9	85	646.02
15...	0953	5.0	261	8.00	17.0	745	7.7	82	646.02
15...	0954	6.0	261	7.90	16.5	745	7.5	78	646.02
15...	0955	7.0	263	7.70	15.5	745	6.9	71	646.02
15...	0956	8.0	261	7.60	14.5	745	6.6	66	646.02
15...	0957	9.0	259	7.60	14.0	745	6.7	67	646.02
15...	0958	10.0	256	7.50	13.5	745	6.3	62	646.02
15...	0959	11.0	253	7.50	13.5	745	6.3	62	646.02
15...	1000	12.0	253	7.50	13.0	745	6.2	60	646.02
15...	1001	13.0	250	7.50	13.0	745	6.2	60	646.02
15...	1002	14.0	245	7.50	12.5	745	6.2	60	646.02
15...	1003	15.0	242	7.50	12.5	745	6.3	61	646.02
15...	1004	16.0	241	7.50	12.5	745	6.3	60	646.02
15...	1005	18.0	238	7.50	12.5	745	6.3	60	646.02
15...	1006	20.0	235	7.40	12.0	745	6.2	59	646.02
15...	1007	22.0	234	7.40	12.0	745	6.2	59	646.02
15...	1008	24.0	232	7.40	12.0	745	6.1	58	646.02
15...	1009	26.0	231	7.40	12.0	745	6.1	58	646.02
15...	1010	28.0	230	7.40	12.0	745	6.1	58	646.02
15...	1011	30.0	229	7.40	12.0	745	6.1	58	646.02
15...	1012	32.0	229	7.40	12.0	745	6.1	58	646.02
15...	1013	34.0	228	7.30	12.0	745	6.0	57	646.02

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ELEV- ATION ABOVE NGVD (FEET)
JUN 1986								
11...	1524	0.50	279	8.30	22.5	745	7.7	91 638.28
11...	1525	1.0	279	8.30	22.5	745	7.7	91 638.28
11...	1526	2.0	279	8.30	22.5	745	7.7	91 638.28
11...	1527	3.0	279	8.30	22.5	745	7.3	86 638.28
11...	1528	4.0	280	8.20	22.0	745	6.8	79 638.28
11...	1529	5.0	281	8.10	21.5	745	6.6	76 638.28
11...	1530	6.0	280	8.00	20.0	745	5.6	63 638.28
11...	1531	7.0	276	7.90	19.0	745	4.8	53 638.28
11...	1532	8.0	270	7.90	17.0	745	4.2	45 638.28
11...	1533	9.0	269	7.90	16.0	745	4.0	42 638.28
11...	1534	10.0	270	7.90	15.5	745	4.3	44 638.28
11...	1535	11.0	269	7.90	15.0	745	4.2	43 638.28
11...	1536	12.0	270	7.90	14.5	745	3.8	38 638.28
11...	1537	13.0	266	7.90	14.0	745	4.3	43 638.28
11...	1538	14.0	264	7.80	14.0	745	4.5	44 638.28
11...	1539	15.0	259	7.80	13.5	745	4.6	45 638.28
11...	1540	16.0	258	7.80	13.5	745	4.7	46 638.28
11...	1541	17.0	257	7.70	13.5	745	4.8	47 638.28
11...	1542	18.0	254	7.70	13.0	745	4.9	48 638.28
11...	1543	19.0	252	7.70	13.0	745	4.9	48 638.28
11...	1544	20.0	250	7.60	13.0	745	5.0	48 638.28
11...	1545	21.0	250	7.60	13.0	745	5.1	49 638.28
11...	1546	23.0	247	7.60	13.0	745	4.9	47 638.28
11...	1547	25.0	245	7.60	12.5	745	4.9	47 638.28
11...	1548	27.0	244	7.50	12.5	745	4.9	47 638.28
11...	1549	29.0	243	7.50	12.5	745	4.9	47 638.28
11...	1550	31.0	242	7.50	12.5	745	4.8	46 638.28
JUL 1986								
30...	1023	0.50	312	8.50	22.5	750	7.1	84 623.66
30...	1024	1.0	312	8.50	22.5	750	7.1	83 623.66
30...	1025	2.0	312	8.50	22.5	750	7.0	82 623.66
30...	1026	3.0	312	8.50	22.5	750	6.9	81 623.66
30...	1027	4.0	312	8.50	22.5	750	6.9	81 623.66
30...	1028	5.0	312	8.50	22.0	750	6.6	77 623.66
30...	1029	6.0	312	8.40	22.0	750	6.5	76 623.66
30...	1030	7.0	314	8.20	22.0	750	6.0	70 623.66
30...	1031	8.0	314	8.10	22.0	750	5.8	67 623.66
30...	1032	9.0	315	7.80	21.5	750	4.6	53 623.66
30...	1033	10.0	314	7.70	21.0	750	3.9	44 623.66
30...	1034	11.0	313	7.60	20.5	750	3.3	37 623.66
30...	1035	12.0	309	7.50	20.0	750	2.0	22 623.66
30...	1036	13.0	301	7.40	19.0	750	1.0	11 623.66
30...	1037	14.0	292	7.40	17.5	750	0.8	9 623.66
30...	1038	15.0	290	7.40	17.5	750	0.8	8 623.66
30...	1039	16.0	286	7.40	16.5	750	1.0	10 623.66
30...	1040	17.0	283	7.40	16.0	750	1.2	12 623.66
30...	1041	18.0	280	7.40	15.5	750	1.3	13 623.66
30...	1042	19.0	279	7.50	15.5	750	1.4	14 623.66
30...	1043	20.0	277	7.40	15.0	750	1.6	16 623.66
30...	1044	21.0	277	7.40	15.0	750	1.5	15 623.66
30...	1045	22.0	277	7.40	15.0	750	1.5	15 623.66
30...	1046	23.0	276	7.40	15.0	750	1.5	15 623.66
30...	1047	24.0	275	7.40	14.5	750	1.5	15 623.66
30...	1048	25.0	275	7.30	14.5	750	1.5	15 623.66
30...	1049	26.0	275	7.30	14.5	750	1.4	14 623.66
30...	1050	27.0	275	7.30	14.5	750	1.3	13 623.66

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED OF (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ELEV- ATION ABOVE NGVD (FEET)
AUG 1986									
20...	1010	0.50	320	8.40	23.0	750	7.4	88	620.64
20...	1011	1.0	320	8.40	23.0	750	7.4	88	620.64
20...	1012	2.0	320	8.40	23.0	750	7.3	87	620.64
20...	1013	3.0	320	8.40	23.0	750	7.2	86	620.64
20...	1014	4.0	320	8.40	23.0	750	7.2	86	620.64
20...	1015	5.0	320	8.40	23.0	750	7.1	84	620.64
20...	1016	6.0	320	8.40	23.0	750	7.1	84	620.64
20...	1017	7.0	320	8.20	23.0	750	6.3	74	620.64
20...	1018	8.0	320	7.90	22.5	750	5.6	66	620.64
20...	1019	9.0	322	7.40	22.0	750	2.6	30	620.64
20...	1020	10.0	319	7.30	21.5	750	2.0	23	620.64
20...	1021	11.0	318	7.30	21.0	750	1.8	21	620.64
20...	1022	12.0	315	7.30	20.5	750	1.7	19	620.64
20...	1023	13.0	314	7.30	20.5	750	1.5	17	620.64
20...	1024	14.0	311	7.30	20.0	750	1.3	15	620.64
20...	1025	15.0	307	7.30	19.5	750	0.9	10	620.64
20...	1026	16.0	300	7.20	19.0	750	0.4	4	620.64
20...	1027	17.0	294	7.20	18.0	750	0.2	2	620.64
20...	1028	18.0	289	7.20	17.0	750	0.2	2	620.64
20...	1029	19.0	287	7.20	16.5	750	0.2	2	620.64
20...	1030	20.0	284	7.20	16.0	750	0.3	3	620.64
20...	1031	21.0	284	7.20	16.0	750	0.3	3	620.64
20...	1032	22.0	282	7.20	16.0	750	0.3	3	620.64
20...	1033	23.0	282	7.20	15.5	750	0.4	4	620.64
20...	1034	24.0	281	7.10	15.5	750	0.3	3	620.64
20...	1035	25.0	281	7.10	15.5	750	0.3	3	620.64
20...	1036	26.0	281	7.10	15.5	750	0.3	3	620.64

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CACO3)	HARD- NESS WH WAT TOT FLD MG/L AS CACO3
DEC 1985										
19...B	1100	1 & 8	--	--	--	755	--	--	310	130
JAN 1986										
28...B	1215	1 & 8	--	--	--	--	--	--	300	120
MAR										
05...	1455	1.0	225	7.90	15.0	750	8.5	86	97	21
05...	1520	4.0	232	7.90	13.0	750	8.4	81	100	23
05...	1535	20.0	197	7.60	11.5	750	8.5	80	86	22
APR										
16...	1050	1.0	245	8.40	15.0	750	7.8	78	100	11
16...	1118	8.0	253	7.70	13.5	750	7.2	71	100	13
16...	1138	20.0	222	7.50	12.0	750	7.2	68	97	11
MAY										
15...	1100	1.0	263	8.10	18.0	745	8.1	88	110	14
15...	1130	6.0	261	7.90	16.5	745	7.5	78	110	12
15...	1200	28.0	230	7.40	12.0	745	6.1	58	110	16
JUN										
11...	1610	1.0	279	8.30	22.5	745	7.7	91	130	23
11...	1650	8.0	270	7.90	17.0	745	4.2	45	120	21
11...	1705	27.0	244	7.50	12.5	745	4.9	47	110	15
JUL										
30...	1120	1.0	312	8.50	22.5	750	7.1	83	140	22
30...	1150	14.0	292	7.40	17.5	750	0.8	9	130	17
30...	1205	25.0	275	7.30	14.5	750	1.5	15	130	31
AUG										
20...	1110	1.0	320	8.40	23.0	750	7.4	88	140	20
20...	1140	17.0	289	7.20	18.0	750	0.2	2	130	19
20...	1150	25.0	281	7.10	15.5	750	0.3	3	130	22

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 1985									
19...	79	27	21	13	0.5	3.3	180	160	15
JAN 1986									
28...	77	26	23	14	0.6	2.9	180	140	15
MAR									
05...	23	9.5	9.0	17	0.4	1.8	76	19	6.9
05...	24	10	9.0	16	0.4	1.6	78	19	6.9
05...	21	8.2	8.1	17	0.4	1.7	64	19	6.5
APR									
16...	24	10	9.1	16	0.4	1.5	90	21	7.5
16...	25	9.9	9.1	16	0.4	1.4	90	22	7.3
16...	23	9.5	8.5	16	0.4	1.4	86	18	7.0
MAY									
15...	28	10	10	16	0.4	1.5	97	33	7.6
15...	27	10	9.6	16	0.4	1.5	97	30	7.5
15...	26	10	9.2	16	0.4	1.5	90	27	7.1
JUN									
11...	31	12	11	16	0.4	1.6	104	36	8.0
11...	30	12	11	16	0.4	1.6	103	33	7.7
11...	27	10	9.1	15	0.4	1.5	94	29	7.0
JUL									
30...	34	13	12	16	0.5	1.8	116	35	7.9
30...	32	12	11	15	0.4	1.7	112	33	7.4
30...	34	12	11	15	0.4	1.6	103	29	6.5
AUG									
20...	35	13	12	15	0.5	1.9	121	38	8.4
20...	33	12	11	15	0.4	1.7	113	33	7.8
20...	32	12	10	14	0.4	1.6	107	31	7.3

See footnote at end of table.

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
DEC 1985									
19...	0.20	12	430	1.27	0.030	1.30	0.150	0.150	0.65
JAN 1986									
28...	0.20	13	410	1.18	0.020	1.20	0.020	0.030	0.58
MAR									
05...	0.10	16	130	0.680	0.020	0.700	0.050	0.010	0.15
05...	0.10	16	130	0.580	0.020	0.600	0.040	0.020	0.26
05...	0.10	14	120	0.680	0.020	0.700	0.050	0.040	0.45
APR									
16...	0.10	9.9	140	0.490	0.010	0.500	0.040	0.030	0.46
16...	0.10	15	140	--	<0.010	0.500	0.030	0.040	0.37
16...	0.10	15	130	0.590	0.010	0.600	0.030	0.050	0.47
MAY									
15...	0.10	15	160	0.380	0.020	0.400	0.020	0.020	0.28
15...	0.10	15	160	--	<0.010	0.400	0.030	0.020	0.27
15...	0.10	16	150	--	<0.010	0.600	0.030	0.010	0.17
JUN									
11...	0.20	15	180	0.190	0.010	0.200	0.060	0.030	0.24
11...	0.10	15	170	--	<0.010	0.300	0.040	0.030	0.16
11...	0.10	16	160	--	<0.010	0.500	0.030	0.030	0.17
JUL									
30...	0.20	15	190	--	<0.010	<0.100	0.030	0.030	0.37
30...	0.10	15	180	--	<0.010	0.300	0.020	0.030	0.28
30...	0.10	17	170	--	<0.010	0.500	0.020	0.030	0.38
AUG									
20...	0.20	14	200	--	<0.010	<0.100	0.010	0.040	--
20...	0.20	16	180	--	<0.010	0.300	0.040	0.060	0.16
20...	0.20	16	170	--	<0.010	0.400	0.030	0.040	0.27

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 1985									
19...	0.55	0.80	0.70	2.1	0.030	0.010	0.010	90	4
JAN 1986									
28...	0.37	0.60	0.40	1.8	0.020	<0.010	0.010	90	5
MAR									
05...	0.19	0.20	0.20	0.90	0.080	0.020	0.010	40	65
05...	0.08	0.30	0.10	0.90	0.090	0.030	0.020	40	64
05...	0.16	0.50	0.20	1.2	0.140	0.030	0.020	40	130
APR									
16...	0.47	0.50	0.50	1.0	0.040	0.020	0.020	40	45
16...	0.26	0.40	0.30	0.90	0.040	0.020	0.020	40	78
16...	0.25	0.50	0.30	1.1	0.060	0.030	0.020	50	18
MAY									
15...	0.18	0.30	0.20	0.70	0.010	<0.010	<0.010	40	6
15...	0.18	0.30	0.20	0.70	0.030	0.010	<0.010	50	15
15...	0.19	0.20	0.20	0.80	0.050	0.020	0.030	40	16
JUN									
11...	0.17	0.30	0.20	0.50	0.020	0.010	<0.010	40	22
11...	0.17	0.20	0.20	0.50	0.020	0.010	<0.010	40	14
11...	--	0.20	<0.20	0.70	0.050	0.030	0.020	50	36
JUL									
30...	0.17	0.40	0.20	--	0.020	0.010	0.010	50	6
30...	0.17	0.30	0.20	0.60	0.020	<0.010	<0.010	50	8
30...	--	0.40	<0.20	0.90	0.050	0.010	0.010	40	12
AUG									
20...	--	<0.20	<0.20	--	0.010	<0.010	<0.010	60	5
20...	0.44	0.20	0.50	0.50	<0.010	<0.010	<0.010	50	4
20...	--	0.30	<0.20	0.70	0.010	<0.010	<0.010	40	75

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (M)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)
JUL 1986 30...	1205	25.0	10	<1	<1	<10	2	<5	<0.1	1

DATE	TIME	SAM- PLING DEPTH (M)	TUR- BID- ITY (NTU)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC 1985					
19...	1105	1.0	--	15.4	1.10
19...	1110	3.0	--	16.0	1.00
JAN 1986					
28...	1231	1.0	--	4.40	0.100
28...	1237	3.0	--	2.90	<0.100
MAR					
05...	1455	1.0	70	0.300	<0.100
APR					
16...	1050	1.0	19	1.70	<0.100
MAY					
15...	1100	1.0	3.7	0.700	<0.100
15...	1120	3.0	4.5	0.800	<0.100
15...	1130	6.0	4.2	0.400	<0.100
JUN					
11...	1610	1.0	2.4	5.30	0.400
11...	1630	3.0	2.5	2.50	0.200
11...	1640	6.0	1.2	2.50	0.200
JUL					
30...	1120	1.0	1.0	1.90	0.400
30...	1130	3.0	1.0	2.20	0.400
30...	1140	6.0	0.60	3.30	0.500
AUG					
20...	1110	1.0	0.50	1.70	0.200
20...	1125	5.0	1.0	2.00	0.300
20...	1130	10.0	0.60	1.90	0.200

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M)
DEC 1985		
19...	1044	3.00
JAN 1986		
28...	1155	2.20
MAR		
05...	1553	0.19
MAY		
15...	1033	2.70
JUN		
11...	1558	2.20
JUL		
30...	1104	2.23
AUG		
20...	1100	4.60

< Actual value is known to be less than the value shown.

B Composite samaple from depths listed.

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	DECEMBER 19, 1985		JANUARY 28, 1986	
TIME	1105	1110	1231	1237
DEPTH (M)	1.0	3.0	1.0	3.0
TOTAL CELLS/ML	22756	35270	2243	4569
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML

BACILLARIOPHYTA (Diatoms)

Order Centrales

<u>Cyclotella kutzingiana</u> ?	151	253	--	--
<u>Cyclotella meneghiniana</u>	2178	2275	57	--
<u>Stephanodiscus</u> sp.	8	--	--	--

Order Pennales

<u>Nitzschia paleacea</u>	--	--	--	28
<u>Synedra radians</u>	--	--	--	28

CHLOROPHYTA (Green algae)

<u>Ankistrodesmus falcatus</u> var. <u>acicularis</u>	--	5	--	--
<u>Chlorococcum</u> sp.	170	57	28	28
<u>Gloeocystis</u> sp.	85	454	--	85
<u>Golenkinia radiata</u>	170	85	--	--
<u>Haematococcus lacustris</u>	--	28	--	--
<u>Mesotaelium</u> sp.	--	28	57	57
<u>Pyramidomonas</u> sp.	--	8	--	--
<u>Schroederia setigera</u>	28	7	--	--
<u>Spermatozoopsis exultans</u>	--	57	--	--
<u>Tetrastrum</u> sp.	--	227	--	--

CHRYSTOPHYTA (Golden-brown algae)

<u>Chrysococcus</u>	--	--	1392	1562
<u>Chrysococcus rufescens</u> ?	7100	6532	--	--
<u>Kephyrion rubri-claustri</u> var. <u>amphora</u>	--	--	--	142
<u>Kephyrion spirale</u>	--	--	28	--
<u>Kephyrion</u> sp.	28	--	28	--
<u>Mallomonas akrokomas</u>	--	--	--	28
<u>Mallomonas</u> sp.	57	57	28	28
<u>Ochromonas</u> sp.	--	--	28	85

CYANOPHYTA (Blue-green algae)

<u>Aphanocapsa delicatissima</u>	85	--	--	--
<u>Chroococcus dispersus</u>	--	--	114	227
<u>Chroococcus dispersus</u> ?	7384	15961	--	--
<u>Chroococcus limneticus</u>	2386	6021	369	454
<u>Chroococcus</u> sp.	1022	682	--	--
<u>Dactylococcopsis acicularis</u>	57	57	--	--
<u>Dactylococcopsis fascicularis</u>	142	--	--	28
<u>Synechococcus elongatus</u>	398	1079	--	--
<u>Synechococcus</u> sp.	--	--	--	284
<u>Synechocystis aquatilis</u> ?	398	341	--	--

EUGLENOPHYTA (Euglenoids)

<u>Trachelomonas hispida</u>	284	92	--	--
<u>Trachelomonas</u> sp.	--	--	57	28

CRYPTOPHYTA (Cryptomonads)

<u>Chroomonas</u> sp.	85	28	--	--
<u>Cryptomonas erosa</u>	284	170	--	--
<u>Cryptomonas marsonii</u>	--	--	--	--
<u>Cryptomonas marsonii</u> ?	142	--	57	199
<u>Cryptomonas</u> sp. 1	114	--	--	--
<u>Cryptomonas</u> sp. 2	--	738	--	--
<u>Cryptomonas</u> sp. 3	--	28	--	--
<u>Rhodomonas lacustris</u>	--	--	--	1278

NUMBER OF SPECIES	23	25	12	17
DRY WEIGHT (MG/L)	4.9	3.6		

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	MARCH 5, 1986	APRIL 16, 1986
TIME	1455	1050
DEPTH (M)	1.0	1.0
TOTAL CELLS/ML	1485	965
ORGANISM	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)		
Order Centrales		
<u>Cyclotella glomerata</u>	--	497
<u>Cyclotella meneghiniana</u>	8	--
<u>Cyclotella sp.</u>	57	--
<u>Stephanodiscus dubius</u>	28	--
CHLOROPHYTA (Green algae)		
<u>Chlamydomonas sp.</u>	--	14
CRYPTOPHYTA (Cryptomonads)		
<u>Cryptomonas erosa</u>	--	14
<u>Cryptomonas sp.</u>	--	71
<u>Rhodomonas minuta</u>	--	369
CYANOPHYTA (Blue-green algae)		
<u>Chroococcus limneticus</u>	1051	--
<u>Lyngbya limnetica</u>	341	--
NUMBER OF SPECIES	5	5
DRY WEIGHT (mg/L)	4.0	

Phytoplankton analyzed by Chadwick and Associates.

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	MAY 15, 1986			JUNE 11, 1986		
TIME	1100	1120	1130	1610	1630	1640
DEPTH (M)	1.0	3.0	6.0	1.0	3.0	6.0
TOTAL CELLS/ML	12269	8207	5366	3920	8478	7134
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)						
Order Centrales						
<u>Cyclotella stelligera</u>	--	--	--	43	114	199
<u>Melosira granulata</u>						
var. <u>angustissima</u>	341	--	--	--	270	568
<u>Stephanodiscus dubius</u>	3238	2840	1619	--	--	--
Order Pennales						
<u>Achnanthes minutissima</u>	--	--	--	--	--	227
<u>Navicula pellicosa</u>	--	--	--	--	--	28
<u>Navicula rhyncocephala</u>	--	--	--	14	--	--
<u>Navicula cryptocephala</u>						
var. <u>veneta</u>	--	--	--	--	--	7
<u>Nitzschia hantzschiana</u>	--	--	--	--	--	28
<u>Nitzschia linearis</u>	--	--	28	--	--	--
CHLOROPHYTA (Green Algae)						
<u>Ankistrodesmus braunii</u>	28	85	--	--	--	--
<u>Chlorella sp.</u>	85	--	--	--	--	--
<u>Gloeocystis sp.</u>	28	--	--	14	--	28
<u>Schroederia judayi</u>	369	199	170	128	57	142
<u>Schroederia setigera</u>	57	--	--	--	--	--
<u>Sphaerocystis Schroeteri</u>	--	--	227	--	--	--
CHRYSOPHYTA (Golden-brown algae)						
<u>Mallomonas akrokomos</u> var. <u>parva</u>	199	227	28	--	--	--
CYANOPHYTA (Blue-green algae)						
<u>Synechococcus elongatus</u> ?	7867	4771	3294	3522	7952	5822
CRYPTOPHYTA (Cryptomonads)						
<u>Cryptomonas marsonii</u>	--	--	--	57	14	28
<u>Cryptomonas sp.</u>	57	85	--	--	--	--
<u>Rhodomonas minuta</u>	--	--	--	--	14	--
PYRRHOPHYTA (Dinoflagellates)						
<u>Ceratium hirundinella</u>	--	--	--	142	57	57
NUMBER OF SPECIES	10	6	6	7	7	11
DRY WEIGHT (MG/L)	1.7	2.7	1.3	0.8	2.5	3.6

Phytoplankton analyzed by Chadwick and Associates.

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

PHYTOPLANKTON

DATE	JULY 30, 1986			AUGUST 20, 1986		
TIME	1120	1130	1140	1110	1125	1130
DEPTH (M)	1.0	3.0	6.0	1.0	5.0	10.0
TOTAL CELLS/ML	57879	21186	20647	75934	82144	25029
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)						
Order Centrales						
<u>Cyclotella kutzingiana</u>	28	85	--	38	19	38
Order Pennales						
<u>Fragilaria crotonensis</u>	--	--	--	397	510	--
<u>Nitzschia sp.</u>	--	--	--	--	--	19
CHLOROPHYTA (Green algae)						
<u>Ankistrodesmus convolutus</u>	--	--	--	19	--	--
<u>Carteria sp.</u>	--	--	--	--	19	--
<u>Chlamydomonas sp. 1</u>	--	--	--	--	95	19
<u>Chlorella sp.</u>	625	1136	227	--	76	38
<u>Coccomyxa minor ?</u>	23629	1136	114	--	57	--
<u>Dictyosphaerium pulchellum</u>	--	284	--	--	--	--
<u>Gloeocystis sp.</u>	28	--	--	--	--	--
<u>Oocystis sp.</u>	--	--	--	38	57	--
<u>Schroederia judayi</u>	--	114	114	--	--	--
<u>Selenastrum minutum</u>	--	--	--	208	132	--
<u>Sphaerocystis Schroeteri</u>	909	3294	1761	3326	2759	888
<u>Staurastrum sp.</u>	170	170	284	38	19	--
CHRYSTOPHYTA (Golden-brown algae)						
<u>Kephyrion sp.</u>	28	57	--	19	19	--
CYANOPHYTA (Blue-green algae)						
<u>Aphanizomenon sp.</u>	--	227	--	--	--	--
<u>Aphanocapsa delicatissima</u>	22493	6589	8179	70943	76964	23970
<u>Aphanothece sp.</u>	7952	--	--	151	19	--
<u>Chroococcus dispersus</u>	1420	6248	5794	--	--	--
<u>Dactylococcopsis fasciculatus</u>	--	--	--	19	--	19
<u>Synechococcus sp.</u>	114	909	3294	--	--	--
<u>Synechococcus sp.</u>	--	--	--	--	57	--
CRYPTOPHYTA (Cryptomonads)						
<u>Cryptomonas sp.</u>	--	--	--	76	38	--
<u>Rhodomonas minuta</u>	483	937	880	662	1285	38
PYRRHOPHYTA (Dinoflagellates)						
<u>Ceratinum hirundinella</u>	--	--	--	--	19	--
NUMBER OF SPECIES	12	13	9	13	17	8
DRY WEIGHT/ (MG/L)	0.4	0.8	0.3	0.2	0.2	0.4

Phytoplankton analyzed by Chadwick and Associates.

GUADALUPE RIVER BASIN

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank and 150 ft upstream from St. John Street bridge, one block below Santa Clara Avenue, and 100 ft downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to 1945, published as Guadalupe Creek at San Jose.

REVISED RECORDS.--WSP 1315-B: 1943(M), 1945(M), 1949(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 72.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 26 to Mar. 1. Records good except for period of estimated discharges, which is fair. Flow regulated by Lexington Reservoir 12 mi upstream and by Calero, Almaden and Guadalupe Reservoirs, and Lake Elsan (combined usable capacity, about 42,000 acre-ft), with water released during summer for percolation in spreading basins on tributaries. During current year, 9,760 acre-ft was diverted by San Jose Water Works for urban use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s, Apr. 2, 1958, gage height, 16.55 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,140 ft³/s, Feb. 19, gage height, 15.52 ft; minimum daily, 13 ft³/s, Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	19	20	21	51	233	109	27	24	22	21	20
2	17	19	208	21	110	207	80	25	23	21	20	21
3	19	19	29	22	127	211	54	47	24	20	20	21
4	13	19	21	101	47	188	49	37	25	21	21	21
5	16	19	25	26	21	128	65	33	25	21	21	21
6	20	20	21	22	14	94	92	38	28	23	21	21
7	17	21	21	23	14	166	58	28	26	22	21	21
8	16	21	21	20	20	1100	45	27	25	22	21	22
9	16	21	20	22	20	845	37	26	25	20	20	21
10	18	92	20	21	20	2200	30	26	25	20	22	21
11	20	45	20	20	20	1490	23	26	24	21	22	21
12	19	21	21	21	205	1330	27	26	22	21	22	21
13	18	21	20	21	267	1220	24	26	22	21	22	22
14	18	20	21	24	2090	954	28	27	22	22	22	21
15	20	21	20	22	2260	1710	44	26	23	22	21	22
16	19	21	19	31	1030	1760	59	26	22	22	22	21
17	19	21	16	26	2720	1210	44	25	22	22	19	40
18	19	21	18	21	3130	932	26	25	23	22	19	26
19	19	20	21	21	6660	733	26	24	23	22	20	23
20	20	21	21	21	2740	553	24	24	23	22	20	23
21	247	21	20	23	1430	519	24	25	23	23	20	22
22	20	21	21	22	992	452	34	26	22	22	20	22
23	19	21	21	23	904	413	39	25	23	23	20	22
24	19	243	21	22	750	324	30	25	22	23	20	43
25	19	120	21	23	503	210	26	26	21	22	21	31
26	19	21	21	22	400	175	26	26	21	22	22	24
27	19	20	21	22	320	155	24	26	23	22	21	81
28	19	90	21	20	270	148	24	23	23	21	21	21
29	19	57	120	33	---	143	23	24	23	21	20	19
30	19	22	80	184	---	141	23	24	23	22	20	20
31	19	---	21	326	---	144	---	26	---	22	20	---
TOTAL	797	1138	991	1247	27135	20088	1217	845	700	672	642	755
MEAN	25.7	37.9	32.0	40.2	969	648	40.6	27.3	23.3	21.7	20.7	25.2
MAX	247	243	208	326	6660	2200	109	47	28	23	22	81
MIN	13	19	16	20	14	94	23	23	21	20	19	19
AC-FT	1580	2260	1970	2470	53820	39840	2410	1680	1390	1330	1270	1500
CAL YR 1985	TOTAL	10086	MEAN	27.6	MAX	431	MIN	13	AC-FT	20010		
WTR YR 1986	TOTAL	56227	MEAN	154	MAX	6660	MIN	13	AC-FT	111500		

GUADALUPE RIVER BASIN

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
JAN 1986										
29...	1130	25	652	8.30	15.0	760	28	8.8	88	41
FEB										
13...	1815	124	466	8.30	14.0	765	81	10.0	97	36
24...	0945	925	202	8.20	11.0	770	330	11.1	100	45
MAR										
11...	0815	1480	258	8.20	13.5	765	110	10.2	98	15
MAY										
13...	1545	25	690	8.40	20.0	760	4.0	10.5	116	14
JUL										
22...	1545	22	765	8.40	21.5	760	8.6	11.5	131	15
SEP										
23...	1515	23	701	8.30	18.0	760	100	7.6	81	17

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986										
29...	310	48	58	41	31	18	0.8	1.4	266	65
FEB										
13...	220	49	42	28	21	17	0.6	2.1	171	50
24...	110	13	23	12	10	17	0.4	1.6	94	19
MAR										
11...	110	11	23	13	9.9	16	0.4	1.8	100	16
MAY										
13...	320	50	58	43	32	18	0.8	1.0	272	73
JUL										
22...	340	28	63	44	31	17	0.8	1.2	310	83
SEP										
23...	350	57	65	46	33	17	0.8	1.6	295	73

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
29...	22	0.2	22	400	0.54	27	3.20	0.12	0.12
FEB									
13...	24	0.1	14	280	0.39	95	1.50	0.07	0.07
24...	11	0.2	15	150	0.2	371	1.00	0.07	0.05
MAR									
11...	9.3	0.1	16	150	0.2	597	0.70	0.08	0.02
MAY									
13...	33	0.1	19	430	0.58	29	2.50	0.02	0.02
JUL									
22...	31	0.2	20	460	0.63	28	2.90	0.03	0.04
SEP									
23...	28	0.2	23	450	0.61	28	3.10	<0.01	0.03

See footnote at end of table.

GUADALUPE RIVER BASIN

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
DATE										
JAN 1986										
29...		0.98	0.48	1.1	0.6	4.3	0.17	0.06	150	10
FEB										
13...		1.0	0.43	1.1	0.5	2.6	0.09	0.02	90	42
24...		1.0	0.25	1.1	0.3	2.1	0.21	0.02	70	98
MAR										
11...		0.52	0.28	0.6	0.3	1.3	0.17	0.04	50	39
MAY										
13...		0.38	0.28	0.4	0.3	2.9	0.11	0.01	160	<3
JUL										
22...		0.37	0.26	0.4	0.3	3.3	0.03	<0.01	160	4
SEP										
23...		--	0.47	0.4	0.5	3.5	0.08	0.02	170	<3

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	FM TOM (UG/G AS)
DATE											
TIME											
FEB 1986											
13...		1815	<10	1	--	<1	--	<10	--	--	3
24...		0945	40	<1	--	<1	--	<10	--	--	1
JUL											
22...		1545	<10	1	6	<1	1	<10	430	60	4

		LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
DATE											
FEB 1986											
13...		<1	--	5	--	<0.1	--	<100	--	28	--
24...		1	--	<10	--	<0.1	--	<100	--	20	--
JUL											
22...		<5	10	7	690	<0.1	0.13	4	<1	--	70

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, (COLS. PER 100 ML)
DATE						
TIME						
FEB 1986						
04...A		0835	48	12.0	45000	2300 5300
11...A		0820	20	13.0	16000	380 1300
18...A		0845	2640	14.0	15830	740 3600
25...A		0830	582	14.0	19000	210 540
MAR						
04...A		0855	205	14.5	6100	400 590
JUL						
22...A		0820	23	21.5	23000	11000 590
29...A		0750	21	21.0	25000	11000 240
AUG						
05...A		0740	22	21.5	14000	4000 400
12...A		0735	23	28.0	7300	980 1400
19...A		0805	21	29.0	24000	5200 970

See footnote at end of table.

GUADALUPE RIVER BASIN

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
JAN 1986									
29...	1130	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.18
FEB									
13...	1815	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.10
24...	0945	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01
JUL									
22...	1545	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.01
SEP									
23...	1515	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.02

DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986									
29...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.03	<0.01
FEB									
13...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.01	<0.01
24...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
JUL									
22...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
SEP									
23...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986									
29...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01
FEB									
13...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.10	<0.01	<0.01
24...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	<0.01	<0.01	<0.01
JUL									
22...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.11	<0.01	<0.01
SEP									
23...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.03	<0.01	<0.01

< Actual value is known to be less than the value shown.

A Bacteria collected and analyzed by Santa Clara Valley Water District.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986									
22...	1545	22	21.5	2	3	9	30	65	100

GUADALUPE RIVER BASIN

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on upstream side of private road bridge, 0.5 mi southwest of Saratoga, and 0.7 mi downstream from diversion dam.

DRAINAGE AREA.--9.22 mi².

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga. REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 6, 1968, at site 40 ft downstream at different datum.

REMARKS.--Estimated daily discharges: May 7 to June 3. Records fair except for period of estimated discharges, which is poor. Water is diverted for municipal use by San Jose Water Works at diversion dam upstream from station.

AVERAGE DISCHARGE (adjusted for diversion).--53 years, 10.7 ft³/s, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s, Dec. 22, 1955, gage height, 6.40 ft, site and datum then in use, from rating curve extended above 510 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 7.03 ft, Jan. 24, 1983; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1345	1,190	6.26	Mar. 8	0415	411	5.00
Feb. 17	1945	*1,680	*7.00	Mar. 15	0730	273	4.55

Minimum daily, 0.31 ft³/s, Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.54	2.2	.44	30	28	20	4.3	1.4	.53	.37	1.1
2	.36	.54	32	.46	32	26	19	4.3	1.3	.45	.41	1.1
3	.34	.54	14	.50	28	25	18	4.6	1.2	.47	.50	1.0
4	.33	.56	6.2	9.8	18	23	16	4.7	.95	.51	.58	.97
5	.31	.52	4.8	8.0	9.3	23	17	4.3	1.0	.53	.80	.94
6	.31	.50	3.7	1.9	5.9	21	17	3.9	.97	.69	1.0	1.0
7	.33	.50	3.3	.66	4.2	25	15	6.0	.81	.61	.58	1.1
8	.35	.50	2.6	.57	2.4	179	13	3.9	.79	.54	.57	1.1
9	.37	.52	2.2	.59	1.8	102	12	3.8	.72	.58	.59	1.0
10	.42	2.5	2.1	.64	1.3	245	12	3.7	1.4	.58	.44	.93
11	.45	1.2	1.9	.69	.78	136	11	3.6	1.3	.99	.55	.94
12	.42	.83	1.8	.72	45	116	10	3.6	.75	2.7	.43	.94
13	.40	.67	1.6	.63	76	103	10	3.4	1.0	.39	.52	1.1
14	.40	.68	1.5	.94	412	73	9.3	3.2	.84	.54	.82	1.1
15	.40	.65	1.5	.78	334	140	10	3.1	.75	.88	.62	1.0
16	.40	.72	1.4	3.0	268	170	9.9	3.0	1.0	.51	.45	1.0
17	.40	.68	1.2	7.8	755	101	9.7	2.8	.64	.67	.56	1.2
18	.40	.67	1.1	1.8	507	70	9.0	2.6	.59	.92	.46	1.2
19	.42	.67	.64	.82	541	55	7.7	2.5	.88	1.2	.46	1.1
20	.43	.64	.61	.53	222	45	7.1	2.4	1.8	.80	1.0	1.1
21	2.6	.67	.54	.50	143	40	6.9	2.2	.66	.49	.99	1.1
22	.68	.67	.54	.51	96	37	6.7	2.2	.54	.42	.94	1.1
23	.63	.67	.50	.67	65	34	6.7	2.2	.51	.66	1.0	1.0
24	.63	11	.50	.51	48	31	6.0	1.7	.55	.55	1.1	1.5
25	.63	6.4	.50	.54	40	29	6.0	1.7	.50	.53	.99	1.5
26	.61	2.0	.50	.53	36	26	6.0	1.7	1.0	.46	.91	1.2
27	.58	1.4	.49	.50	33	26	5.4	1.6	.62	.58	.88	1.8
28	.58	2.5	.46	.48	30	25	5.0	1.5	.62	.50	1.0	1.3
29	.58	8.0	2.5	1.1	---	23	4.8	1.4	.83	.61	1.0	1.2
30	.58	3.3	2.3	11	---	21	4.4	1.4	.53	.54	1.1	1.1
31	.56	---	1.1	47	---	20	---	1.4	---	.55	1.1	---
TOTAL	16.27	51.24	96.28	104.61	3784.68	2018	310.6	92.7	26.45	20.98	22.72	33.72
MEAN	.52	1.71	3.11	3.37	135	65.1	10.4	2.99	.88	.68	.73	1.12
MAX	2.6	11	32	47	755	245	20	6.0	1.8	2.7	1.1	1.8
MIN	.31	.50	.46	.44	.78	20	4.4	1.4	.50	.39	.37	.93
AC-FT	32	102	191	207	7510	4000	616	184	52	42	45	67
a	0	0	21	126	64	84	217	229	194	134	62	0

CAL YR 1985	TOTAL	779.09	MEAN	2.13	MAX	63	MIN	.21	AC-FT	1550
WTR YR 1986	TOTAL	6578.25	MEAN	18.0	MAX	755	MIN	.31	AC-FT	13050

COYOTE CREEK BASIN

11170000 COYOTE CREEK NEAR MADRONE, CA

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 1.2 mi downstream from Anderson Dam, and 1.8 mi northeast of Madrone.

DRAINAGE AREA.--196 mi².

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

REVISED RECORDS.--WSP 1345: 1932, 1935(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 375 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Nov. 20-21. Records good. Flow regulated by Coyote Lake, capacity, 23,700 acre-ft and by Anderson Lake, capacity, 91,280 acre-ft. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--80 years, 65.8 ft³/s, 47,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 386 ft³/s, Mar. 20, gage height, 3.46 ft; minimum daily, 0.02 ft³/s Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	57	5.1	46	5.2	.04	14	55	50	61	56	61
2	59	57	6.1	46	4.8	.02	14	55	50	61	57	60
3	58	57	5.0	41	4.8	1.5	14	55	50	59	57	58
4	57	57	5.1	39	4.8	13	14	55	50	55	57	57
5	57	57	5.3	39	4.8	13	15	52	51	59	56	57
6	59	57	17	39	22	13	15	43	51	61	55	57
7	58	57	25	39	37	14	14	40	50	60	55	57
8	58	57	25	39	38	15	14	41	51	59	55	58
9	56	57	34	39	37	15	14	41	51	58	56	58
10	56	58	47	39	34	17	14	41	54	58	57	57
11	56	57	47	39	24	23	14	40	57	59	57	57
12	56	57	47	39	4.9	14	14	40	58	58	57	57
13	56	57	47	39	4.8	14	14	40	58	57	57	58
14	56	57	47	39	4.8	14	14	40	58	57	57	59
15	56	57	47	39	1.1	16	15	42	58	60	62	58
16	56	57	47	39	.41	16	14	44	58	61	67	55
17	57	57	46	39	1.9	17	14	45	55	62	62	55
18	56	57	46	39	2.6	103	37	47	55	61	61	55
19	56	57	46	39	3.8	322	55	51	56	59	60	54
20	57	57	46	39	1.1	377	55	54	56	59	59	53
21	57	57	46	39	.61	377	55	51	55	58	56	53
22	57	42	46	39	.38	378	55	47	56	57	57	53
23	57	4.6	46	36	.26	377	55	48	55	57	57	53
24	58	5.4	46	33	.30	206	55	48	60	57	58	52
25	59	5.3	46	32	.14	56	55	49	63	57	58	46
26	59	32	46	32	.09	15	55	49	62	57	59	42
27	59	57	46	32	.07	15	56	49	61	56	59	42
28	59	28	46	26	.05	14	56	49	61	56	58	42
29	59	5.1	46	4.8	---	14	56	49	62	56	57	42
30	58	5.0	46	4.9	---	14	55	51	62	56	59	42
31	58	---	46	5.3	---	14	---	51	---	56	61	---
TOTAL	1778	1382.4	1146.6	1080.0	243.71	2497.56	941	1462	1674	1807	1799	1608
MEAN	57.4	46.1	37.0	34.8	8.70	80.6	31.4	47.2	55.8	58.3	58.0	53.6
MAX	59	58	47	46	38	378	56	55	63	62	67	61
MIN	56	4.6	5.0	4.8	.05	.02	14	40	50	55	55	42
AC-FT	3530	2740	2270	2140	483	4950	1870	2900	3320	3580	3570	3190
CAL YR 1985	TOTAL	18193.72	MEAN	49.8	MAX	73	MIN	.42	AC-FT	36090		
WTR YR 1986	TOTAL	17419.27	MEAN	47.7	MAX	378	MIN	.02	AC-FT	34550		

COYOTE CREEK BASIN

11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CA

LOCATION.--Lat 37°23'43", long 121°49'38", on north boundary of San Jose Pala Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank at downstream side of Dorel Drive bridge, and 0.1 mi upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1963. Datum of gage is 265.30 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1962, at site 0.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Low flow partially regulated by Cherry Flat Reservoir 5 mi upstream, capacity, 500 acre-ft.

AVERAGE DISCHARGE.--25 years, 6.44 ft³/s, 4,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,970 ft³/s, Mar. 31, 1982, gage height, 8.71 ft in gage well, 9.71 ft from outside gage, from rating curve extended above 360 ft³/s (revised) on basis of slope-area measurements at gage heights 5.64 ft, 6.24 ft, and 8.71 ft; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1935, 2,100 ft³/s Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*), from rating curve extended as indicated above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2115	*1,180	*6.26	Mar. 15	1930	274	4.60

Minimum daily, 0.12 ft³/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.22	.67	.76	7.9	7.8	7.4	2.7	1.1	.44	.39	1.5
2	.19	.21	.93	.65	13	7.0	7.3	2.7	1.1	.41	.52	1.5
3	.16	.21	.93	.60	22	6.3	6.8	3.5	1.2	.38	.72	1.5
4	.13	.22	.76	1.2	15	5.4	6.4	3.5	1.2	.38	.75	.79
5	.12	.21	1.0	1.3	7.1	4.4	7.0	3.1	1.2	.44	.78	.90
6	.15	.20	.81	1.3	4.9	3.9	8.0	3.2	1.2	.41	.81	.99
7	.14	.19	.87	.99	3.5	4.7	8.2	2.8	1.0	.38	.83	1.0
8	.14	.18	.95	.83	2.7	63	6.3	2.7	.87	.37	.92	1.0
9	.16	.18	.81	.73	2.2	28	5.9	2.3	.76	.36	.82	1.0
10	.15	.36	.69	.69	1.8	84	5.8	2.1	.64	.36	.78	.50
11	.15	.46	.60	.77	1.6	103	5.2	2.1	.66	.34	.82	.30
12	.16	.34	.53	.64	1.9	85	4.9	2.0	.68	.33	.59	.25
13	.16	.29	.47	.58	4.7	99	4.5	1.8	.69	.31	.43	.20
14	.15	.28	.46	.65	63	65	4.4	1.7	.69	.30	.42	.18
15	.13	.25	.43	.74	268	128	5.1	1.7	.71	.32	.38	.17
16	.13	.25	.43	.83	170	185	5.9	1.6	.71	.31	.35	.18
17	.13	.24	.42	.98	375	96	5.8	1.5	.68	.31	.33	.51
18	.14	.25	.39	1.1	267	58	4.7	1.4	.66	.42	.33	.36
19	.16	.25	.39	.93	310	42	4.2	1.4	.64	1.8	.31	.35
20	.18	.27	.39	.86	136	32	3.7	1.3	.68	1.8	.32	.35
21	1.3	.25	.39	.95	62	25	3.6	1.3	.67	1.8	.31	.33
22	.32	.25	.39	.80	39	21	3.6	1.3	.60	1.8	.34	.31
23	.26	.25	.39	.76	29	18	3.5	1.3	.54	1.9	.33	.61
24	.24	.71	.38	.77	23	15	3.3	1.1	.54	1.9	.32	1.0
25	.22	.60	.36	.90	18	13	3.2	1.1	.54	1.9	.39	.56
26	.22	.36	.39	.89	14	11	3.2	1.1	.53	1.9	.36	.43
27	.22	.32	.42	.88	12	10	3.0	1.1	.62	1.9	.29	.67
28	.23	.80	.45	.74	9.7	8.9	2.9	1.0	.57	1.9	.97	.72
29	.23	1.5	.75	.80	---	8.2	2.8	1.0	.52	1.9	1.5	.69
30	.23	.80	1.1	2.4	---	7.6	2.8	1.0	.48	1.7	1.6	.49
31	.24	---	1.0	9.4	---	7.5	---	1.0	---	.53	1.5	---
TOTAL	6.73	10.90	18.95	36.42	1884.0	1252.7	149.4	57.4	22.68	29.30	19.51	19.34
MEAN	.22	.36	.61	1.17	67.3	40.4	4.98	1.85	.76	.95	.63	.64
MAX	1.3	1.5	1.1	9.4	375	185	8.2	3.5	1.2	1.9	1.6	1.5
MIN	.12	.18	.36	.58	1.6	3.9	2.8	1.0	.48	.30	.29	.17
AC-FT	13	22	38	72	3740	2480	296	114	45	58	39	38

GAL WD 1985 TOTAL 712.32 MEAN 1.05 MAX 55 MIN .07 AC-FT 1420

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW 1/4 SE 1/4 sec.36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft downstream from Mines Road bridge, 2.4 mi upstream from small right-bank tributary, and 5.2 mi southeast of Livermore.

DRAINAGE AREA.--38.2 mi².

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 746.49 ft above National Geodetic Vertical Datum of 1929. January 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Mar. 9 to May 9. Records good except for estimated record, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--41 years, 5.43 ft³/s, 3,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,250 ft³/s, Jan. 24, 1983, gage height, 8.80 ft, from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 10.44 ft, Feb. 19, 1986, from floodmarks; no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft³/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0100	*1,660	*10.44	Mar. 15	2000	Unknown	7.68
Mar. 8	0830	569	8.10				

No flow many days in October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.44	1.6	10	6.3	10	4.6	3.3	.64	.25	.11
2		0	1.1	1.6	6.4	6.0	10	4.5	2.9	.59	.22	.11
3		0	4.8	1.5	13	5.5	9.6	4.4	2.9	.57	.20	.11
4		0	2.4	1.4	14	4.8	9.4	4.4	2.9	.51	.19	.11
5		0	1.7	3.0	5.9	4.5	9.0	4.3	2.8	.45	.18	.11
6		0	1.4	2.6	4.3	4.1	8.8	4.3	2.7	.41	.17	.11
7		0	1.3	2.0	3.1	4.1	8.6	4.1	2.7	.41	.14	.11
8		0	1.3	1.6	2.5	170	8.4	3.7	2.7	.41	.14	.11
9		0	1.2	1.3	1.9	60	8.4	3.3	2.3	.41	.14	.11
10		0	1.1	1.2	1.6	133	8.2	3.2	2.1	.41	.14	.11
11		0	.96	1.1	1.3	110	8.0	3.2	1.9	.37	.14	.11
12		0	.83	.95	1.3	86	7.6	3.2	2.0	.29	.14	.11
13		0	.82	.83	20	82	7.4	3.2	2.0	.29	.14	.11
14		0	.83	.83	120	48	7.2	3.2	1.9	.29	.14	.11
15		0	.83	.83	366	68	7.0	3.2	1.9	.29	.14	.11
16		0	.83	.83	125	139	6.7	3.1	1.7	.29	.14	.11
17		0	.74	.83	429	93	6.6	3.0	1.6	.29	.14	.11
18		0	.72	.95	465	64	6.4	3.0	1.5	.29	.14	.11
19		0	.72	1.3	832	49	6.2	2.9	1.4	.29	.14	.11
20		0	.72	1.2	159	34	6.0	2.7	1.3	.28	.14	.11
21		0	.72	1.1	63	29	5.8	2.7	1.3	.26	.14	.11
22		0	.72	.96	38	24	5.6	2.7	1.2	.26	.14	.11
23		0	.72	.84	24	21	5.5	2.7	1.1	.26	.14	.11
24		0	.72	.83	17	17	5.4	2.7	.92	.26	.13	.14
25		0	.72	.80	12	16	5.2	2.7	.92	.28	.11	.18
26		0	.72	.72	9.9	15	5.1	2.7	.92	.29	.11	.18
27		0	.72	.72	8.1	14	5.0	2.7	.92	.29	.11	.25
28		.06	.72	.72	7.0	13	4.9	2.7	.87	.29	.11	.29
29		.92	.74	.77	---	12	4.8	2.7	.74	.28	.11	.28
30		1.1	1.1	1.2	---	11	4.7	2.7	.71	.26	.11	.26
31		---	1.6	4.2	---	11	---	2.8	---	.26	.11	---
TOTAL	0	2.08	33.94	40.31	2760.3	1354.3	211.5	101.3	54.10	10.77	4.49	4.11
MEAN	0	.069	1.09	1.30	98.6	43.7	7.05	3.27	1.80	.35	.14	.14
MAX	0	1.1	4.8	4.2	832	170	10	4.6	3.3	.64	.25	.29
MIN	0	0	.44	.72	1.3	4.1	4.7	2.7	.71	.26	.11	.11
AC-FT	0	4.1	67	80	5480	2690	420	201	107	21	8.9	8.2

ALAMEDA CREEK BASIN

11176090 ARROYO MOCHO AT LIVERMORE, CA

LOCATION.--Lat 37°40'37", long 121°48'48" in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft upstream from unnamed road, 3.1 mi from confluence of Arroyo Las Positas, and 2.6 mi west of Livermore.

DRAINAGE AREA.--50.8 mi².

PERIOD OF RECORD.--October 1983 to December 1985 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 22 to Nov. 1. Records good. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 549 ft³/s, Dec. 25, 1983, gage height, 5.58 ft; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October to December 1985, 423 ft³/s, Dec. 2, gage height, 5.34 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	2.1									
2	0	0	24									
3	0	0	0									
4	0	0	0									
5	0	0	.29									
6	0	0	0									
7	0	0	.83									
8	0	0	0									
9	0	0	0									
10	0	6.3	0									
11	0	1.7	0									
12	0	0	0									
13	0	0	0									
14	0	0	0									
15	0	0	0									
16	0	0	0									
17	0	0	0									
18	0	0	0									
19	0	0	0									
20	0	0	0									
21	17	0	0									
22	0	0	0									
23	0	0	0									
24	0	14	0									
25	0	0	0									
26	0	0	0									
27	0	0	0									
28	0	3.3	0									
29	0	14	6.1									
30	0	0	.01									
31	0	---	0									
TOTAL	17	39.3	33.33									
MEAN	.55	1.31	1.08									
MAX	17	14	24									
MIN	0	0	0									
AC-FT	34	78	66									

CAL YR 1985 TOTAL 224.36 MEAN .61 MAX 44 MIN 0 AC-FT 445

ALAMEDA CREEK BASIN

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA

LOCATION.--Lat 37°42'00", long 121°46'22" in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft upstream from North Livermore Avenue bridge, 0.6 mi upstream from Cayetano Creek, and 1.3 mi north of Livermore.

DRAINAGE AREA.--53.3 mi².

PERIOD OF RECORD.--August 1980 to December 1985 (discontinued).

GAGE.--Water-stage recorder with concrete control. Elevation of gage is 465 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Water from South Bay Aqueduct enters stream about 5 mi upstream from gage.

AVERAGE DISCHARGE.--5 years (1981-85), 9.38 ft³/s, 6,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s, Jan. 5, 1982, gage height, 5.87 ft; minimum daily, 0.17 ft³/s, Aug. 30, 1980, and Sept. 1-8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October to December 1985, 98 ft³/s, Dec. 2, gage height, 2.94 ft; minimum daily, 1.4 ft³/s, Oct. 6-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.0	3.4									
2	1.5	2.6	30									
3	1.8	1.9	7.3									
4	1.6	1.9	3.7									
5	2.2	2.5	4.0									
6	1.4	1.9	3.4									
7	1.4	1.8	4.7									
8	1.9	1.8	3.6									
9	1.5	1.8	2.8									
10	1.8	12	2.7									
11	1.6	8.2	2.5									
12	1.9	4.3	2.5									
13	1.6	2.9	2.5									
14	1.5	3.1	2.1									
15	1.5	2.4	1.9									
16	1.7	2.3	1.9									
17	2.0	2.3	2.2									
18	1.6	2.2	2.2									
19	1.9	2.2	2.2									
20	1.8	2.2	2.2									
21	15	2.2	2.2									
22	4.0	2.2	2.2									
23	2.4	2.2	2.0									
24	2.7	16	2.0									
25	2.0	7.7	2.2									
26	2.7	3.0	2.2									
27	2.0	2.6	2.2									
28	2.0	9.1	2.3									
29	2.5	20	7.9									
30	2.1	6.1	11									
31	2.4	---	3.8									
TOTAL	73.7	133.4	127.8									
MEAN	2.38	4.45	4.12									
MAX	15	20	30									
MIN	1.4	1.8	1.9									
AC-FT	146	265	253									

CAL YR 1985 TOTAL 959.4 MEAN 2.63 MAX 46 MIN 1.2 AC-FT 1900

ALAMEDA CREEK BASIN

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", Long 121°52'20", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi upstream from Santa Rita Road, 0.8 mi downstream from Arroyo Las Positas, and 2 mi north of Pleasanton.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--September 1962 to December 1985 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1967, at site 0.4 mi downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation. Wastewater from Livermore sewage disposal plant and gravel operations enters stream about 4 mi upstream from gage.

AVERAGE DISCHARGE.--23 years (1963-85), 18.8 ft³/s, 13,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,330 ft³/s, Jan. 5, 1982, gage height, 13.97 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges, during period October 1985 to December 1985, greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	1115	*392	*9.73				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	16	11									
2	0	16	89									
3	0	16	23									
4	0	4.6	10									
5	0	17	11									
6	0	19	9.0									
7	0	13	11									
8	0	.09	9.3									
9	0	.33	8.1									
10	0	16	5.6									
11	0	23	.68									
12	0	13	.53									
13	0	7.9	.49									
14	0	1.5	.41									
15	0	1.2	.21									
16	0	.65	.16									
17	0	.73	.20									
18	0	.66	.27									
19	0	.62	.34									
20	0	.78	.32									
21	26	.74	.29									
22	6.2	.75	.29									
23	1.3	2.8	.27									
24	.44	34	.16									
25	5.7	25	.25									
26	15	9.8	.29									
27	16	8.1	.31									
28	17	16	.28									
29	17	52	7.2									
30	16	21	17									
31	16	---	3.4									
TOTAL	136.64	338.25	220.35									
MEAN	4.41	11.3	7.11									
MAX	26	52	89									
MIN	0	.09	.16									
AC-FT	271	671	437									

CAL YR 1985 TOTAL 2591.65 MEAN 7.10 MAX 165 MIN 0 AC-FT 5140

ALAMEDA CREEK BASIN

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE 1/4 NE 1/4 sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank 100 ft upstream from small left-bank tributary, 1.2 mi downstream from Lang Canyon, and 9.5 mi southeast of Livermore.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore."

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Elevation of gage is 750 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 19, 1975, at site 1.4 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 21-28. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--23 years, 39.9 ft³/s, 28,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,790 ft³/s, Feb. 17, 1986, gage height, 7.36 ft, from rating curve extended above 1,000 ft³/s, on basis of slope-area measurements at gage heights 4.13 ft, 5.40 ft, and 7.36 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s, and maximum (*) based on rating extended above 1,000 ft³/s on basis of slope-area measurements at gage heights 4.13 ft, 5.40 ft, and 7.36 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2115	*8,790	*7.36	Mar. 16	0100	1,520	2.96
Mar. 8	1200	1,920	3.95				

No flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.33	7.3	5.2	81	70	57	23	8.5	2.1	1.5	.77
2	0	.25	25	4.4	89	62	54	23	8.5	2.1	1.5	.78
3	0	.19	25	4.2	118	57	53	24	8.5	1.8	1.4	.83
4	0	.14	11	8.9	112	52	52	25	8.5	1.6	1.4	.86
5	0	.12	7.6	22	62	49	54	24	8.5	1.6	1.2	.80
6	0	.05	6.2	17	42	46	60	25	8.7	1.6	1.2	.77
7	0	.07	6.2	11	32	47	59	23	8.7	1.6	1.1	.81
8	0	.13	6.7	8.5	25	1480	56	22	8.4	1.6	.96	.96
9	0	.20	4.6	6.8	21	493	51	21	7.8	1.6	.86	1.1
10	0	2.2	4.1	5.8	17	1110	51	20	7.2	1.6	.89	1.0
11	0	1.8	3.4	5.1	15	919	47	19	7.0	1.6	1.0	.93
12	0	.99	3.1	5.0	20	562	45	19	6.1	1.6	.86	.87
13	0	.69	2.7	4.2	296	440	42	19	6.0	1.7	.86	.96
14	0	.60	2.7	4.5	958	322	41	19	5.2	1.7	.85	1.2
15	0	.60	2.7	5.3	3220	688	41	17	5.1	1.6	.86	1.2
16	0	.60	2.7	5.9	1960	1170	41	15	5.3	1.6	.92	1.2
17	0	.62	2.6	15	4090	561	40	15	5.1	1.6	.91	1.2
18	0	.63	2.1	11	3020	323	38	15	5.1	1.6	1.0	1.4
19	0	.74	2.1	8.1	4860	223	36	15	5.0	1.6	.92	1.2
20	0	.86	2.1	6.7	1250	174	34	15	4.5	1.4	.82	1.2
21	1.6	.86	2.1	5.9	494	149	35	15	4.0	1.2	.75	1.2
22	2.7	.76	2.1	5.1	290	129	34	15	3.5	1.2	.78	1.2
23	2.1	.82	2.1	5.1	201	115	32	14	3.2	1.4	.80	1.2
24	1.2	3.0	2.1	4.4	152	104	29	13	2.6	1.5	.84	2.0
25	.86	3.9	2.1	4.2	123	97	27	13	2.3	1.2	.77	1.8
26	.60	1.8	2.1	4.2	105	86	27	13	2.3	1.4	.74	1.5
27	.40	1.2	2.1	4.2	91	81	27	13	2.9	1.5	.72	1.6
28	.25	2.1	2.1	4.2	79	75	25	12	2.7	1.5	.76	1.6
29	.25	18	2.6	4.5	---	69	25	9.5	2.4	1.3	.86	1.3
30	.25	19	6.5	10	---	64	23	8.5	2.1	1.6	.98	1.2
31	.35	---	7.2	35	---	59	---	8.5	---	1.6	.91	---
TOTAL	10.56	63.25	163.0	251.4	21823	9876	1236	532.5	165.7	48.6	29.92	34.64
MEAN	.34	2.11	5.26	8.11	779	319	41.2	17.2	5.52	1.57	.97	1.15
MAX	2.7	19	25	35	4860	1480	60	25	8.7	2.1	1.5	2.0
MIN	0	.05	2.1	4.2	15	46	23	8.5	2.1	1.2	.72	.77
AC-FT	21	125	323	499	43290	19590	2450	1060	329	96	59	69
CAL YR 1985	TOTAL	3116.14	MEAN	8.54	MAX	292	MIN	0	AC-FT	6180		
WTR YR 1986	TOTAL	34234.57	MEAN	93.8	MAX	4860	MIN	0	AC-FT	67900		

ALAMEDA CREEK BASIN

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from highway bridge, 1.1 mi upstream from Dry Creek, 1.3 mi downstream from Del Valle Dam, 4.1 mi south of Livermore, and 6.9 mi southeast of Pleasanton.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft above National Geodetic Vertical Datum of 1929. Prior to November 1914, at site 900 ft upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 9, 10. Records fair. Flow regulated by Del Valle Reservoir 1.3 mi upstream beginning in September 1968, capacity, 77,100 acre-ft. Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft³/s, 21,450 acre-ft/yr; 18 years (1969-86), 31.0 ft³/s, 22,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s, Apr. 2, 1958, gage height, 10.91 ft; no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,850 ft³/s, Mar. 3, 1983, gage height, 8.89.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.9 ft from floodmarks, discharge, 18,200 ft³/s, on basis of contracted-opening and slope area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s, Feb. 19, gage height, 7.93 ft; minimum daily, 0.10 ft³/s, several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.34	.54	.42	.53	283	1.9	.34	.21	.51	.23	.10
2	.26	.34	.72	.42	.59	282	1.8	.37	.25	.20	.23	.11
3	.23	.34	4.2	.42	.83	134	1.8	.43	.25	.44	.22	.11
4	.21	.34	11	.50	.70	2.5	1.8	.41	.25	.63	.21	.11
5	.20	.34	11	.51	.56	1.7	1.8	.42	.21	.67	.23	.11
6	.23	.34	8.8	.50	.49	20	1.8	.42	.22	.69	.24	.10
7	.26	.33	6.7	.49	.42	87	1.8	.39	.19	.53	.27	.11
8	.28	.34	6.7	.45	.42	530	1.8	.38	.19	.55	.23	.12
9	.25	.34	6.7	.42	.42	994	1.8	.37	.13	.55	.23	.14
10	.22	.39	3.9	.42	.42	1480	1.9	.36	.17	.43	.20	.12
11	.21	.42	.59	.38	.42	1530	1.9	.37	.20	.40	.22	.10
12	.22	.36	.48	.34	.45	827	2.1	.36	.18	.52	.19	.12
13	.18	.34	.42	.34	.51	761	2.2	.36	.27	.54	.19	.16
14	.19	.34	.42	.36	.65	447	2.1	.42	.34	.52	.21	.18
15	.19	.35	.42	.42	2.7	225	.90	.46	.50	.41	.23	.19
16	.20	.36	.42	.42	286	782	.86	.42	.25	.42	.23	.22
17	.24	.34	.42	.42	553	694	.86	.41	.26	.47	.21	.25
18	.24	.35	.40	.42	832	308	.81	.30	.19	.46	.21	.30
19	.24	.40	.39	.42	1690	208	.79	.28	.16	.45	.17	.29
20	.25	.41	.36	.34	2130	237	.56	.24	.21	.38	.15	.31
21	.60	.42	.39	.38	2080	126	.65	.24	.18	.29	.17	.30
22	.33	.42	.34	.42	2030	2.7	.75	.22	.18	.26	.18	.31
23	.30	.42	.38	.42	1980	2.2	.90	.22	.17	.29	.17	.32
24	.30	.65	.42	.42	1930	2.0	.78	.22	.19	.36	.13	.50
25	.28	.54	.42	.42	992	1.8	.81	.19	.22	.41	.11	.48
26	.28	.45	.42	.42	288	1.8	.81	.19	.24	.25	.10	.37
27	.29	.42	.42	.42	285	1.8	.90	.22	.20	.24	.10	.42
28	.29	.53	.42	.42	285	1.7	1.2	.19	.33	.29	.11	.42
29	.33	.94	.47	.47	---	1.8	1.3	.17	.47	.27	.12	.40
30	.34	.60	.51	.51	---	1.7	.93	.16	.56	.27	.10	.40
31	.34	---	.47	.59	---	1.8	---	.18	---	.24	.10	---
TOTAL	8.28	12.50	69.24	13.30	15371.11	9978.5	40.31	9.71	7.37	12.94	5.69	7.17
MEAN	.27	.42	2.23	.43	549	322	1.34	.31	.25	.42	.18	.24
MAX	.60	.94	11	.59	2130	1530	2.2	.46	.56	.69	.27	.50
MIN	.18	.33	.34	.34	.42	1.7	.56	.16	.13	.20	.10	.10
AC-FT	16	25	137	26	30490	19790	80	19	15	26	11	14

CAL YR 1985 TOTAL 206.55 MEAN .57 MAX 11 MIN .05 AC-FT 410
WTR YR 1986 TOTAL 25536.12 MEAN 70.0 MAX 2130 MIN .10 AC-FT 50650

ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°52'54", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 400 ft upstream from Hopyard Road bridge, 0.6 mi northwest of Pleasanton City Hall, and 10 mi below Del Valle Reservoir.

DRAINAGE AREA.--171 mi².

PERIOD OF RECORD.--October 1957 to December 1985 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 312.46 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1983, at site 600 ft downstream at datum 0.66 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Del Valle Reservoir beginning in September 1968, capacity, 77,100 acre-ft. Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow affected by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft³/s, 20,050 acre-ft/yr; 17 years (1969-85), 25.9 ft³/s, 18,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s, Apr. 3, 1958, site and datum then in use; no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 2,590 ft³/s, Mar. 3, 1983, gage height, 13.86 ft.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 134 ft³/s, Dec. 2, gage height, 6.99 ft; no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	4.0									
2	.86	0	24									
3	1.1	0	5.2									
4	.93	1.3	3.8									
5	1.2	.79	4.5									
6	1.9	1.5	3.5									
7	2.3	2.0	5.0									
8	1.5	2.3	3.8									
9	1.4	3.3	3.4									
10	1.6	9.4	3.0									
11	1.5	4.2	3.2									
12	1.5	2.6	3.3									
13	1.8	2.0	3.2									
14	1.7	1.8	3.1									
15	1.6	2.0	3.6									
16	1.5	2.4	3.7									
17	1.4	2.9	3.2									
18	1.4	2.7	2.9									
19	1.7	2.7	3.0									
20	2.7	.54	3.0									
21	13	0	3.3									
22	2.0	0	3.7									
23	1.6	0	3.8									
24	1.5	13	3.7									
25	1.2	3.8	3.8									
26	1.7	2.8	3.2									
27	2.5	2.8	1.4									
28	2.3	4.7	2.2									
29	.24	17	8.5									
30	0	2.7	4.4									
31	0	---	3.4									
TOTAL	55.63	91.23	133.8									
MEAN	1.79	3.04	4.32									
MAX	13	17	24									
MIN	0	0	1.4									
AC-FT	110	181	265									

CAL YR 1985 TOTAL 537.59 MEAN 1.47 MAX 40 MIN 0 AC-FT 1070

ALAMEDA CREEK BASIN

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 1805004, on right bank at culvert on Sunol Road, 700 ft upstream from mouth, and 0.3 mi east of Sunol.

DRAINAGE AREA.--7.48 mi².

PERIOD OF RECORD.--Water years 1975 to September 1986 (discontinued).

CHEMICAL DATA: Water years 1975 to 1979.

SPECIFIC CONDUCTANCE: Water years 1975 to September 1986 (discontinued).

WATER TEMPERATURE: November 1975 to 1978.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1974 to September 1986 (discontinued).

WATER TEMPERATURE: November 1974 to September 1978.

INSTRUMENTATION.--Water-quality monitor since November 1974. Digital recorder set for 1-hour-interval punches.

REMARKS.-- Interruptions in record were due to malfunction of the recording instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,420 microsiemens, Jan. 28, 1985; minimum recorded, 98 microsiemens, Apr. 28, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20-percent missing record), 866 microsiemens, Oct. 23.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	660	530	739	622	527	515	808	597		
2	---	---	666	576	690	252	528	508	777	476		
3	---	---	668	649	777	643	519	490	739	469		
4	---	---	663	649	770	656	810	488	698	572		
5	---	---	651	545	732	676	820	711	761	698		
6	---	---	636	522	785	685	841	742	759	737		
7	---	---	614	502	787	677	759	534	798	755		
8	---	---	614	566	760	626	542	530	794	745		
9	---	---	597	479	771	743	546	525	798	760		
10	---	---	559	399	769	720	546	529	778	753		
11	664	642	574	462	764	728	554	537	798	757		
12	661	641	710	412	664	539	552	537	780	406		
13	653	629	728	558	742	547	556	536	782	652		
14	655	632	675	560	738	706	557	530	768	166		
15	652	632	643	495	715	683	557	544	336	110		
16	656	630	643	485	689	652	546	530	360	150		
17	648	635	652	476	654	624	758	528	222	118		
18	683	531	656	468	626	603	802	735	---	---		
19	537	531	676	552	604	585	739	708	---	---		
20	531	520	569	551	585	566	796	527	---	---		
21	672	464	595	569	567	547	527	516	---	---		
22	802	584	618	595	547	526	518	507	---	---		
23	866	663	624	613	528	515	516	505	---	---		
24	665	541	649	527	526	516	513	505	---	---		
25	635	553	644	513	524	511	509	502	---	---		
26	636	516	749	544	526	512	510	502	---	---		
27	636	504	727	645	523	504	516	500	---	---		
28	641	504	693	376	521	508	584	507	---	---		
29	643	515	640	306	584	486	641	573	---	---		
30	649	505	791	545	796	622	814	616	---	---		
31	663	562	---	---	746	515	737	420	---	---		
MONTH	---	---	791	306	796	252	841	420	---	---		

ALAMEDA CREEK BASIN

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW 1/4 sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi downstream from railroad bridge, 1.2 mi northeast of Niles, and 8.3 mi downstream from James H. Turner Dam on San Antonio Creek.

DRAINAGE AREA.--633 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunol Glen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft above National Geodetic Vertical Datum of 1929. Prior to 1901, nonrecording gage at site 1 mi upstream at different datum. From 1901 to Sept. 30, 1914, nonrecording gage and Oct. 1, 1914, to Sep. 30, 1916, water-stage recorder at site 4.5 mi upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-20. Records good. Flow regulated since 1916 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft, most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft; and since September 1968 by Del Valle Reservoir, 23 mi upstream, capacity, 77,100 acre-ft. Natural flow of stream affected by water imported from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft³/s, 89,050 acre-ft/yr; 24 years (water years 1963-86), 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s, Dec. 23, 1955, gage height, 14.9 ft; minimum, (water years 1892-1962), no flow at times; minimum daily (water years 1963-86), 0.63 ft³/s, Oct. 7-10, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft³/s, Feb. 19, gage height, 14.77 ft; minimum daily, 4.0 ft³/s, Oct. 12.

REVISIONS.--The maximum discharge for the water year 1984 has been revised to 5,280 ft³/s, Nov. 24, 1983, gage height, 8.64 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	20	34	49	160	480	136	65	37	68	50	53
2	5.2	20	346	46	232	445	136	64	40	67	48	51
3	5.2	20	119	39	258	410	126	81	38	52	47	53
4	5.2	20	45	124	143	192	121	83	38	59	44	52
5	5.2	13	39	72	69	143	131	72	40	64	45	52
6	5.2	22	33	37	49	126	138	71	34	61	44	54
7	5.2	24	40	30	46	205	120	65	37	60	45	54
8	5.2	18	35	36	41	2510	118	63	40	62	45	56
9	4.9	9.9	28	42	36	1990	117	61	37	59	43	55
10	4.5	95	25	34	34	3750	119	60	35	54	44	52
11	4.1	81	21	32	31	4240	149	60	24	49	45	50
12	4.0	33	27	31	42	3080	114	58	17	49	44	51
13	4.2	22	31	31	309	3000	102	56	16	49	43	52
14	4.4	16	43	32	750	1870	96	51	30	50	49	54
15	4.7	12	43	53	2710	2080	92	41	31	49	53	51
16	5.0	11	44	49	1860	3240	100	40	33	49	52	38
17	5.2	11	44	177	6460	2710	95	46	32	49	55	17
18	10	12	43	50	4310	1430	86	44	33	50	58	25
19	25	19	44	35	9360	1010	82	43	32	51	58	13
20	26	24	42	32	4960	779	78	47	33	50	58	13
21	124	24	43	42	3680	652	75	40	41	50	58	13
22	41	23	43	40	2970	405	68	39	43	44	59	13
23	18	24	43	50	2440	303	72	39	53	43	60	28
24	12	135	43	41	2200	252	72	29	60	46	59	24
25	9.8	119	43	39	1770	213	73	25	51	45	54	24
26	13	38	42	38	608	192	73	24	51	44	48	25
27	22	26	40	45	551	175	71	22	54	43	45	32
28	23	51	36	32	508	162	70	18	67	42	50	15
29	23	227	76	50	---	149	69	17	66	46	55	12
30	21	84	145	102	---	144	66	17	67	42	58	28
31	20	---	42	247	---	138	---	31	---	48	56	---
TOTAL	471.6	1253.9	1722	1757	46587	36475	2965	1472	1210	1594	1572	1110
MEAN	15.2	41.8	55.5	56.7	1664	1177	98.8	47.5	40.3	51.4	50.7	37.0
MAX	124	227	346	247	9360	4240	149	83	67	68	60	56
MIN	4.0	9.9	21	30	31	126	66	17	16	42	43	12
AC-FT	935	2490	3420	3490	92410	72350	5880	2920	2400	3160	3120	2200
CAL YR 1985	TOTAL	17341.5	MEAN	47.5	MAX	1240	MIN	4.0	AC-FT	34400		
WTR YR 1986	TOTAL	98189.5	MEAN	269	MAX	9360	MIN	4.0	AC-FT	194800		

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906, 1952-73, 1975 to current year.

CHEMICAL DATA: Water years 1906, 1952-67, 1969, 1975-79.

SPECIFIC CONDUCTANCE: Water years 1956-57, 1959-62, 1976 to current year.

WATER TEMPERATURE: Water years 1956-73, 1976-78.

SEDIMENT DATA: Water years 1957-73.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to current year.

WATER TEMPERATURE: July 1956 to September 1973, October 1975 to September 1978.

INSTRUMENTATION.--Water-quality monitor since October 1975. Digital recorder set for 1-hour-interval punches.

REMARKS.--Differences between specific conductance recorder values before adjustment and field measurement values exceeded +/- 10 percent at times during the year. Interruptions in record were due to malfunction of recording instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 microsiemens, Nov. 19, 1977; minimum recorded, 122 microsiemens, Jan. 22, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,350 microsiemens, Oct. 27.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELCIUS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	685	621	1150	1060	824	642	636	612				
2	755	633	1120	1060	908	365	690	628				
3	1150	755	1130	1060	634	510	834	656				
4	1160	1010	1130	1060	740	616	782	444				
5	1160	1050	1090	1040	864	740	770	478				
6	1100	1060	1210	1030	918	864	892	612				
7	1110	1070	1110	1030	914	868	---	---				
8	1110	1070	1030	1010	906	804	---	---				
9	1120	1100	1010	994	854	806	---	---				
10	1160	1100	1110	418	900	854	---	---				
11	1100	1060	638	404	940	900	---	---				
12	1060	1030	886	598	956	824	---	---				
13	1090	1030	930	886	830	790	---	---				
14	1150	1040	1000	930	834	774	---	---				
15	1200	1070	1000	984	826	794	---	---				
16	1160	1110	1010	984	896	738	---	---				
17	1130	1100	1050	1010	902	720	---	---				
18	1140	1100	1080	1050	938	706	---	---				
19	1130	773	1150	1040	950	692	---	---				
20	773	731	1040	770	884	660	---	---				
21	850	516	812	780	752	642	---	---				
22	778	516	808	782	678	632	---	---				
23	942	774	868	808	754	642	---	---				
24	1150	942	1010	334	792	640	---	---				
25	1190	1150	672	356	786	634	---	---				
26	1200	1150	834	672	694	628	---	---				
27	1350	1120	948	712	646	606	---	---				
28	1120	1070	998	786	624	598	---	---				
29	1080	1060	786	378	814	534	---	---				
30	1060	1040	642	436	534	284	---	---				
31	1100	1050	---	---	718	464	---	---				
MONTH	1350	516	1210	334	956	284	---	---				

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELCIUS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

ALAMEDA CREEK BASIN

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi upstream from mouth.

DRAINAGE AREA.--9.39 mi².

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P). WRD CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 85.12 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1959, at site 1.4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Apr. 11-17. Records good except for period of estimated discharges, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--30 years, 2.68 ft³/s, 1,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft³/s, Jan. 26, 1983, gage height 5.14 ft; maximum gage height, 5.27 ft, Oct. 13, 1962, from high-water marks past gage, from rating curve extended above 600 ft³/s on basis of slope-area measurement of maximum flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1500	507	3.72	Mar. 11	2345	119	2.67
Feb. 18	2200	*965	*4.59				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.01	.01	8.2	4.0	3.5	1.3	.54			0
2	0	0	3.5	0	13	3.3	3.1	1.3	.48			0
3	0	0	.80	.01	20	3.6	3.0	1.9	.51			0
4	0	0	.08	.46	10	3.2	2.9	1.7	.49			0
5	0	0	.11	.72	6.3	2.9	3.2	1.4	.47			0
6	0	0	.03	.67	4.6	2.7	3.6	1.3	.42			0
7	0	0	.26	.45	3.2	5.9	2.8	1.2	.41			0
8	0	0	.23	.28	2.5	31	2.7	1.1	.36			0
9	0	0	.07	.20	2.1	20	2.6	1.0	.28			0
10	0	.02	.02	.13	1.7	47	2.5	1.0	.17			0
11	0	.01	0	.11	1.5	50	2.4	.92	.20			0
12	0	0	0	.08	3.6	46	2.3	.97	.23			0
13	0	0	0	.06	11	34	2.2	.84	.21			0
14	0	0	0	.09	91	20	2.1	.82	.22			0
15	0	0	0	.14	70	25	2.8	.82	.20			0
16	0	0	0	.38	82	40	2.4	.75	.18			0
17	0	0	0	3.6	220	21	2.1	.67	.15			0
18	0	0	0	3.1	148	16	1.9	.67	.10			0
19	0	0	0	3.8	128	12	1.8	.64	.09			0
20	0	0	0	3.3	38	9.7	1.7	.75	.08			0
21	.21	0	0	2.9	21	8.1	1.7	.68	.07			0
22	.01	0	0	2.6	15	7.3	1.7	.63	.03			0
23	0	0	0	2.6	11	6.7	1.7	.58	.02			0
24	0	.20	0	2.4	8.8	6.3	1.6	.56	.01			.06
25	0	.02	0	2.2	7.2	5.3	1.6	.56	0			.05
26	0	0	0	1.9	5.9	4.9	1.5	.56	0			.05
27	0	0	0	1.6	5.3	4.7	1.5	.61	0			.06
28	0	.10	0	1.4	4.6	4.5	1.5	.59	0			.03
29	0	.14	.21	2.3	---	4.3	1.4	.55	0			.01
30	0	.01	.37	4.7	---	4.0	1.3	.51	0			0
31	0	---	.02	15	---	3.9	---	.52	---			---
TOTAL	.22	.50	5.71	57.19	943.5	457.3	67.1	27.40	5.92	0	0	.26
MEAN	.007	.017	.18	1.84	33.7	14.8	2.24	.88	.20	0	0	.009
MAX	.21	.20	3.5	15	220	50	3.6	1.9	.54	0	0	.06
MIN	0	0	0	0	1.5	2.7	1.3	.51	0	0	0	0
AC-FT	.4	1.0	11	113	1870	907	133	54	12	0	0	.5
CAL YR 1985	TOTAL	190.16	MEAN	.52	MAX	24	MIN	0	AC-FT	377		
WTR YR 1986	TOTAL	1565.10	MEAN	4.29	MAX	220	MIN	0	AC-FT	3100		

ALAMEDA CREEK BASIN

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi downstream from effluence from Alameda Creek, 0.2 mi upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi southwest of Decoto District in Union City.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1966, at site 0.2 mi downstream at same datum.

REMARKS.--Estimated daily discharges: Mar. 7 to Apr. 2, Apr. 22, 23, Apr. 26-28, May 22 to June 25. Records poor. This stream is a distributary of Alameda Creek. Diversion by Alameda County Water District to percolation ponds between station 11179000 and this station; additional percolation to ground water by placing check dams in channel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft³/s, Feb. 19, 1986, gage height, 18.44 ft; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,100 ft³/s, Feb. 19, gage height, 18.44 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	72	.26	450	520	98	34	.50			0
2	0	0	824	.02	428	470	94	32	.50			0
3	0	0	405	.01	641	432	92	55	.50			0
4	0	0	2.3	142	376	210	82	77	.50			0
5	0	0	.21	182	113	136	100	50	.50			0
6	0	0	.01	48	3.0	112	119	48	.40			0
7	0	0	.26	.86	.49	300	101	37	.40			0
8	0	0	.01	1.4	1.3	2700	96	33	.40			0
9	0	0	0	.49	.72	2300	89	35	.30			0
10	0	84	0	1.0	.18	4000	92	31	.20			0
11	0	329	0	.14	.15	4600	144	32	.20			0
12	0	108	0	0	203	3600	108	28	.20			0
13	0	29	0	.07	608	3300	78	26	.20			0
14	0	15	0	.90	1370	2100	68	22	.20			0
15	0	3.5	0	20	4060	2200	62	14	.20			0
16	0	.26	0	154	2780	3500	70	12	.20			0
17	0	.01	0	437	8830	2900	74	16	.20			2.2
18	0	0	0	92	5800	1600	57	17	.20			0
19	0	0	0	36	11700	1200	51	14	.10			0
20	0	0	0	17	5420	940	47	18	.10			0
21	31	0	0	1.1	3640	760	42	12	.10			0
22	41	0	0	.20	2980	600	25	5.0	.10			0
23	7.0	1.6	0	.13	2550	415	28	2.1	.03			0
24	.80	490	0	0	2350	300	39	1.0	.02			28
25	.27	476	0	0	1990	220	38	.60	.01			57
26	.15	82	0	0	636	160	16	.60	0			50
27	.06	.56	0	0	596	140	17	.60	0			12
28	.01	15	0	1.6	547	130	25	.60	0			1.0
29	0	628	216	208	---	120	35	.60	0			0
30	0	334	418	231	---	112	34	.50	0			0
31	0	---	59	484	---	105	---	.50	---			---
TOTAL	80.29	2595.93	1996.79	2059.18	58073.84	40182	2021	655.10	6.26	0	0	150.2
MEAN	2.59	86.5	64.4	66.4	2074	1296	67.4	21.1	.21	0	0	5.01
MAX	41	628	824	484	11700	4600	144	77	.50	0	0	57
MIN	0	0	0	0	.15	105	16	.50	0	0	0	0
AC-FT	159	5150	3960	4080	115200	79700	4010	1300	12	0	0	298

CAL YR 1985 TOTAL 10641.62 MEAN 29.2 MAX 2120 MIN 0 AC-FT 21110
WTR YR 1986 TOTAL 107820.59 MEAN 295 MAX 11700 MIN 0 AC-FT 213900

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°41'42", long 122°02'38", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 250 ft south of Interstate 580, 0.4 mi southeast of Independent School, and 2.2 mi east of Castro Valley.

DRAINAGE AREA.--18.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 2, 3. Records good. Some regulation of low flow by ponds above station.

AVERAGE DISCHARGE.--6 years, 10.8 ft³/s, 7,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft³/s, Feb. 18, 1986, gage height, 8.33 ft; maximum gage height, 9.50 ft, Jan. 24, 1983; Minimum daily, no flow several days in 1981-83.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 275 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1515	543	4.77	Mar. 10	0930	324	3.64
Feb. 18	2300	*1,460	*8.33				

Minimum daily, 0.12 ft³/s, Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.70	2.5	.15	4.5	28	11	4.2	1.2	.72	.42	.33
2	.44	.65	15	.22	13	25	10	4.4	1.1	.71	.44	.31
3	.44	.84	1.8	.49	15	24	10	7.2	1.1	.72	.41	.33
4	.44	.99	.68	8.4	7.3	23	9.2	5.1	1.2	.71	.42	.30
5	.22	1.1	.74	1.5	5.2	22	8.9	3.4	1.2	.75	.43	.30
6	1.1	1.1	.55	.75	4.2	21	9.4	3.9	1.1	.81	.51	.31
7	2.2	1.3	1.7	.39	3.7	40	8.5	3.4	1.1	.79	.44	.31
8	1.4	.28	.36	.31	4.0	97	7.9	3.7	1.2	.76	.44	.44
9	1.0	1.3	.28	1.2	4.4	68	7.3	2.6	1.1	.76	.44	.35
10	.96	9.1	.15	1.1	3.5	186	6.9	1.9	1.1	.83	.46	.44
11	1.1	4.6	.15	.96	3.3	108	6.8	2.2	1.2	.87	.99	.29
12	3.0	.55	1.3	.69	15	86	6.3	2.2	1.2	.72	.40	.26
13	2.6	.33	.43	.55	27	93	6.1	2.0	1.3	.73	.39	.30
14	1.6	.19	.41	2.1	147	62	6.2	2.0	1.2	.80	.40	.32
15	1.1	.15	.43	1.0	155	75	6.3	2.0	1.2	.69	.40	.31
16	.97	.34	.46	10	168	74	7.6	1.7	1.6	.71	.35	.51
17	.96	.44	.59	9.3	530	56	6.2	1.5	1.1	.72	.38	1.3
18	1.1	.43	.59	1.7	351	47	5.9	1.5	1.2	.79	.87	.49
19	1.4	.43	.59	1.2	307	40	6.5	1.6	1.4	.68	.40	.37
20	1.9	.47	.59	.95	127	34	5.0	1.5	1.5	.64	.36	.33
21	11	.59	.59	.81	79	30	4.8	1.5	1.5	.64	.40	.35
22	.21	.59	.69	.95	65	27	4.4	1.3	1.6	.69	.65	.37
23	.12	.89	.72	1.8	55	24	4.5	1.2	1.5	.90	.41	.34
24	.17	13	.70	.87	46	21	4.4	1.2	1.6	.62	.35	1.9
25	.13	1.8	.70	.72	41	19	4.6	1.2	1.4	.55	.37	.54
26	.21	.51	.83	.70	37	18	4.3	1.1	1.1	.58	.36	1.1
27	.16	.31	.96	.70	33	16	3.9	1.1	.99	.53	.34	2.1
28	.20	5.1	.96	.76	31	15	3.8	1.2	.88	.52	.38	.42
29	.33	17	6.7	4.7	---	14	3.9	1.2	.81	.61	.38	.43
30	.29	2.2	1.6	5.7	---	13	4.2	1.1	.80	.94	.40	.46
31	.47	---	.25	25	---	12	---	1.1	---	.70	.37	---
TOTAL	37.64	67.28	44.00	85.67	2282.1	1418	194.8	71.2	36.48	22.19	13.76	15.91
MEAN	1.21	2.24	1.42	2.76	81.5	45.7	6.49	2.30	1.22	.72	.44	.53
MAX	11	17	15	25	530	186	11	7.2	1.6	.94	.99	2.1
MIN	.12	.15	.15	.15	3.3	12	3.8	1.1	.80	.52	.34	.26
AC-FT	75	133	87	170	4530	2810	386	141	72	44	27	32

CAL YR 1985 TOTAL 867.29 MEAN 2.38 MAX 102 MIN .02 AC-FT 1720
WTR YR 1986 TOTAL 4289.03 MEAN 11.8 MAX 530 MIN .12 AC-FT 8510

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1980 to current year (storm season only).

WATER TEMPERATURE: December 1980 to current year.

SEDIMENT DATA: December 1980 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: December 1980 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1980 to current year.

REMARKS.--Sediment samples were collected on most days where water temperature is published. Zero bedload discharge observed for flows less than 17 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 10,000 mg/L, Jan. 4, 1982; minimum daily mean, 2 mg/L Jan. 2, 3, 5, Mar. 3, 4, 1981.

SEDIMENT LOAD (storm season only): Maximum daily, 19,800 tons, Jan. 4, 1982; minimum daily, 0 ton several days in most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 9,130 mg/L, Feb. 17; minimum daily mean, 3 mg/L, Nov. 17.

SEDIMENT LOAD (storm season only): Maximum daily, 14,400 tons, Feb. 17; minimum daily, 0 ton, Nov. 17, 19.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.5	10.5	12.5	15.0	14.0	---	---	---	---	---
2	---	11.5	11.0	11.5	12.5	14.5	14.0	---	---	---	---	---
3	---	---	12.0	11.5	10.5	15.0	13.5	---	---	---	---	---
4	---	14.0	---	11.0	10.5	16.0	---	---	---	---	20.0	---
5	---	---	---	13.0	10.5	16.5	13.0	---	---	---	---	---
6	---	---	---	10.5	9.5	16.0	14.5	---	---	---	---	---
7	---	11.5	---	10.5	9.0	15.0	14.0	12.0	---	---	---	---
8	---	---	---	---	8.0	14.0	15.0	---	---	---	---	15.0
9	---	10.5	---	9.5	8.0	12.5	15.0	---	---	---	---	---
10	---	10.0	7.5	8.0	9.5	12.5	15.5	---	---	---	---	---
11	---	9.0	---	8.5	9.0	13.0	14.5	---	---	---	---	---
12	---	---	---	8.5	11.5	---	13.0	---	---	---	---	---
13	---	---	---	9.0	12.0	12.0	13.0	---	---	---	---	---
14	---	9.0	6.0	8.5	13.0	12.5	14.0	---	---	---	---	---
15	---	7.0	---	10.0	12.5	11.0	12.0	---	---	---	---	---
16	---	9.0	---	11.5	13.0	12.0	12.5	---	---	---	---	---
17	---	---	---	13.0	13.0	12.5	12.5	---	19.0	---	---	---
18	---	9.5	---	---	14.0	13.0	14.0	---	---	---	---	---
19	---	---	---	12.5	13.0	13.5	15.5	---	---	---	---	---
20	---	8.0	---	10.5	12.5	14.0	17.0	---	---	---	---	---
21	---	---	---	9.5	13.0	15.0	17.0	---	---	---	---	---
22	---	---	---	10.0	---	14.5	14.0	---	---	---	---	---
23	---	8.0	---	10.0	14.5	11.0	13.0	---	---	---	---	---
24	---	9.5	6.5	10.0	14.0	---	12.5	---	---	---	---	---
25	---	11.0	6.0	10.0	14.5	---	---	---	---	---	---	---
26	---	10.0	6.5	10.5	15.5	---	14.5	---	---	---	---	---
27	---	10.0	---	11.5	15.5	---	15.5	---	---	---	---	---
28	---	11.5	---	11.0	15.0	---	14.5	---	---	---	---	---
29	---	11.0	---	11.5	---	---	14.0	---	---	---	---	---
30	11.5	10.0	8.5	12.5	---	---	14.0	---	---	---	---	---
31	---	---	10.0	12.0	---	14.5	---	---	---	---	---	---
MONTH	---	---	---	10.5	12.0	---	14.0	---	---	---	---	---

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.42	25	.03	.70	12	.02	2.5	132	1.7
2	.44	25	.03	.65	12	.02	15	729	30
3	.44	25	.03	.84	18	.04	1.8	201	.98
4	.44	24	.03	.99	25	.07	.68	22	.04
5	.22	18	.01	1.1	23	.07	.74	27	.06
6	1.1	38	.30	1.1	21	.06	.55	32	.12
7	2.2	48	.29	1.3	39	.24	1.7	94	.79
8	1.4	28	.11	.28	16	.01	.36	29	.03
9	1.0	22	.06	1.3	35	.63	.28	23	.02
10	.96	20	.05	9.1	327	16	.15	22	.01
11	1.1	19	.06	4.6	190	5.5	.15	21	.01
12	3.0	34	.30	.55	24	.04	1.3	228	2.5
13	2.6	28	.22	.33	24	.02	.43	68	.08
14	1.6	19	.08	.19	22	.01	.41	31	.03
15	1.1	19	.06	.15	17	.01	.43	21	.02
16	.97	18	.05	.34	7	.01	.46	14	.02
17	.96	18	.05	.44	3	.00	.59	9	.01
18	1.1	18	.05	.43	5	.01	.59	9	.01
19	1.4	17	.06	.43	4	.00	.59	9	.01
20	1.9	26	.40	.47	4	.01	.59	9	.01
21	11	472	44	.59	9	.01	.59	9	.01
22	.21	20	.02	.59	10	.02	.69	55	.10
23	.12	16	.01	.89	22	.05	.72	120	.23
24	.17	16	.01	13	438	20	.70	115	.22
25	.13	15	.01	1.8	68	.50	.70	110	.21
26	.21	15	.01	.51	12	.02	.83	125	.28
27	.16	15	.01	.31	90	.08	.96	120	.31
28	.20	14	.01	5.1	198	3.7	.96	115	.30
29	.33	14	.01	17	954	102	6.7	670	36
30	.29	13	.01	2.2	173	1.1	1.6	319	1.8
31	.47	13	.02	---	---	---	.25	56	.06
TOTAL	37.64	---	46.39	67.28	---	150.25	44.00	---	75.97
JANUARY			FEBRUARY			MARCH			
1	.15	65	.03	4.5	578	11	28	115	8.7
2	.22	67	.04	13	912	59	25	125	8.4
3	.49	70	.13	15	690	38	24	105	6.8
4	8.4	415	18	7.3	330	6.5	23	105	6.5
5	1.5	166	.93	5.2	141	2.0	22	105	6.2
6	.75	174	.37	4.2	139	1.6	21	90	5.1
7	.39	68	.07	3.7	40	.40	40	398	68
8	.31	35	.03	4.0	22	.24	97	2460	861
9	1.2	42	.14	4.4	20	.24	68	871	228
10	1.1	57	.17	3.5	22	.21	186	5070	3080
11	.96	72	.19	3.3	45	.40	108	1880	671
12	.69	47	.09	15	557	82	86	1680	473
13	.55	80	.12	27	380	40	93	1320	436
14	2.1	220	4.2	147	4450	3170	62	287	48
15	1.0	121	.37	155	2670	1180	75	951	237
16	10	772	70	168	3620	2770	74	665	144
17	9.3	775	40	530	9130	14400	56	255	39
18	1.7	177	.81	351	5280	14000	47	178	23
19	1.2	96	.31	307	5910	8230	40	139	15
20	.95	62	.16	127	1520	592	34	130	12
21	.81	50	.11	79	554	121	30	178	14
22	.95	48	.34	65	250	44	27	410	30
23	1.8	242	2.4	55	198	29	24	128	8.3
24	.87	64	.17	46	198	25	21	121	6.9
25	.72	12	.02	41	175	19	19	115	5.9
26	.70	13	.02	37	155	15	18	100	4.9
27	.70	37	.07	33	155	14	16	94	4.1
28	.76	28	.06	31	135	11	15	89	3.6
29	4.7	237	5.5	---	---	---	14	84	3.2
30	5.7	220	7.7	---	---	---	13	80	2.8
31	25	2290	286	---	---	---	12	102	3.3
TOTAL	85.67	---	438.55	2282.1	---	44861.59	1418	---	6463.7

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	11	113	3.4						
2	10	62	1.7						
3	10	125	3.6						
4	9.2	90	2.2						
5	8.9	172	4.3						
6	9.4	158	4.1						
7	8.5	80	1.8						
8	7.9	61	1.3						
9	7.3	45	.89						
10	6.9	29	.54						
11	6.8	55	1.0						
12	6.3	64	1.1						
13	6.1	47	.77						
14	6.2	25	.42						
15	6.3	97	1.8						
16	7.6	149	3.4						
17	6.2	46	.77						
18	5.9	56	.89						
19	6.5	51	.90						
20	5.0	35	.47						
21	4.8	35	.45						
22	4.4	25	.30						
23	4.5	18	.22						
24	4.4	27	.32						
25	4.6	32	.40						
26	4.3	25	.29						
27	3.9	29	.31						
28	3.8	27	.28						
29	3.9	43	.45						
30	4.2	55	.62						
31	---	---	---						
TOTAL	194.8	---	38.99						
PERIOD	4129.49		52075.44						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1985 TO APRIL 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	37.64	46.39	1	47
NOVEMBER ...	67.28	150.25	1	151
DECEMBER ...	44.00	75.97	0	76
JANUARY 1986	85.67	438.55	3	442
FEBRUARY ...	2282.10	44861.59	340	45200
MARCH	1418.00	6463.70	148	6610
APRIL	194.80	38.99	0	39
PERIOD	4129.49	52075.44	493	52565

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
DEC							
30...	1220	1.1	8.5	414	1.2	--	--
JAN							
14...	1605	1.4	9.0	315	1.2	--	--
31...	1100	83	12.0	5820	1300	31	40
31...	1550	75	13.0	4550	921	33	46
FEB							
03...	1055	16	10.5	901	39	--	--
14...	1320	139	13.5	5070	1900	26	32
14...	1420	423	13.0	19000	21700	31	38

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
DEC							
30...	--	--	--	99	--	--	--
JAN							
14...	--	--	--	92	--	--	--
31...	47	63	75	87	96	99	100
31...	49	63	78	87	96	99	100
FEB							
03...	--	--	--	96	99	100	--
14...	41	53	65	76	91	99	100
14...	45	61	75	83	88	99	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN								
31...	1405	13.0	20	24	31.5	1.8	2	4
31...	1530	13.0	20	113	33.0	1.4	5	14
FEB								
20...	1110	12.5	16	113	33.0	16	--	1
DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN								
31...	16	46	71	90	98	100	--	--
31...	43	76	85	91	97	100	--	--
FEB								
20...	13	45	62	75	86	92	98	100

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 0.9 mi upstream from Cull Creek Dam and 1.1 mi northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

REVISIONS.--WRD-80-2: 1979(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Recording rain gage 2.6 mi north of gage (discontinued).

REMARKS.--Estimated daily discharges: Nov. 11-26, Feb. 17-20, and July 25 to Aug. 5. Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--8 years, 4.65 ft³/s, 3,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft³/s, Jan. 5, 1982, gage height, 8.71 ft, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 18	1740	*956	*6.15	Mar. 8	0430	240	3.73

Minimum, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.06	.15	5.2	7.3	3.9	1.3	.59	.12	.02	0
2	0	0	2.9	.13	9.7	6.7	3.6	1.4	.59	.10	.01	0
3	0	0	.52	.11	5.8	6.2	3.5	1.5	.59	.08	.01	0
4	0	0	.29	2.1	3.8	5.6	3.3	1.6	.64	.07	.01	0
5	0	0	.23	1.2	3.0	5.1	3.4	1.4	.53	.07	.01	0
6	0	0	.15	.58	2.6	4.6	3.4	1.4	.50	.07	.01	0
7	0	0	.19	.35	2.3	12	3.2	1.3	.47	.06	.01	0
8	0	0	.15	.29	2.1	50	3.0	1.2	.41	.06	.01	0
9	0	0	.11	.24	1.9	15	2.9	1.2	.37	.06	.01	0
10	0	.01	.09	.20	1.7	61	2.7	1.1	.33	.06	.01	0
11	0	.01	.09	.20	1.7	37	2.6	1.0	.30	.04	.01	0
12	0	.01	.07	.17	4.1	21	2.5	1.0	.36	.04	.01	0
13	0	0	.07	.17	4.8	34	2.4	1.0	.32	.03	0	0
14	0	0	.09	.21	41	17	2.3	.99	.33	.03	0	0
15	0	0	.09	.34	50	21	2.3	.92	.32	.03	0	0
16	0	0	.09	11	146	22	2.4	.90	.32	.03	0	0
17	0	0	.09	13	385	15	2.3	.83	.30	.02	0	.02
18	0	0	.09	1.4	165	13	2.2	.83	.27	.02	0	.01
19	0	0	.09	.71	95	11	2.0	.79	.25	.03	0	.01
20	0	0	.09	.46	47	9.1	2.0	.83	.25	.03	0	0
21	.02	0	.09	.34	27	8.0	1.9	.81	.23	.03	0	0
22	0	0	.09	.29	21	7.7	1.8	.75	.19	.02	0	0
23	0	0	.09	.78	16	7.3	1.8	.75	.16	.03	0	0
24	0	.27	.09	.31	14	6.8	1.7	.75	.12	.02	0	.02
25	0	.09	.09	.24	12	6.3	1.7	.75	.14	.02	0	.01
26	0	0	.09	.23	11	6.0	1.7	.73	.15	.02	0	.02
27	0	0	.09	.23	9.6	5.9	1.7	.66	.15	.02	0	.03
28	0	.02	.09	.23	8.7	5.3	1.6	.67	.15	.02	0	0
29	0	.96	.28	.78	---	5.1	1.5	.65	.15	.02	0	0
30	0	.19	.46	2.3	---	4.8	1.3	.57	.14	.02	0	0
31	0	---	.20	15	---	4.3	---	.55	---	.02	0	---
TOTAL	.02	1.56	7.21	53.74	1097.0	441.1	72.6	30.13	9.62	1.29	.13	.12
MEAN	.0006	.052	.23	1.73	39.2	14.2	2.42	.97	.32	.042	.004	.004
MAX	.02	.96	2.9	15	385	61	3.9	1.6	.64	.12	.02	.03
MIN	0	0	.06	.11	1.7	4.3	1.3	.55	.12	.02	0	0
AC-FT	.04	3.1	14	107	2180	875	144	60	19	2.6	.3	.2
a	0.90	4.11	2.24	5.07	10.69	6.97	0.60	0.43	0	0.02	0	1.58

CAL YR 1985 TOTAL 302.10 MEAN .83 MAX 80 MIN 0 AC-FT 599
WTR YR 1986 TOTAL 1714.52 MEAN 4.70 MAX 385 MIN 0 AC-FT 3400

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year (storm season only).

WATER TEMPERATURE: Water years 1979 to current year.

SEDIMENT DATA: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1978 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1978 to current year.

REMARKS.--Zero bedload discharge observed at flows less than 4.5 ft³/s. Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 22,400 mg/L, Feb. 17, 1986; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 26,400 tons, Feb. 17, 1986; minimum daily, 0 tons on many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 22,400 mg/L, Feb. 17; minimum daily mean, no flow on many days.

SEDIMENT LOAD: (storm season only): Maximum daily, 26,400 tons, Feb. 17; minimum daily, 0 ton on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	9.0	9.5	12.0	15.0	13.5	---	---		---	
2		---	10.0	10.0	12.0	15.0	13.5	---	---		---	
3		---	11.5	10.5	10.5	15.5	12.0	---	---		---	
4		---	---	10.5	9.5	16.0	---	---	---		19.5	
5		---	---	12.0	9.0	16.0	12.5	---	---		---	
6		---	---	11.5	8.5	15.0	14.0	---	---		---	
7		---	---	9.5	8.0	14.0	13.0	8.0	---		---	
8		---	---	---	7.0	14.5	14.0	---	---		---	
9		10.0	---	7.5	7.0	12.0	14.5	---	---		---	
10		10.0	---	7.0	6.0	12.5	15.5	---	---		---	
11		---	---	8.0	8.0	13.5	14.0	---	---		---	
12		---	---	8.0	10.5	---	13.5	---	---		---	
13		---	---	9.0	11.5	11.0	12.0	---	-	---	---	
14		---	---	8.5	13.0	12.0	13.5	---	---		---	
15		---	---	8.0	12.0	10.5	10.5	---	---		---	
16		---	---	10.0	12.5	11.5	11.0	---	17.5		---	
17		---	---	13.0	13.0	13.0	11.5	---	---		---	
18		---	---	---	14.0	13.0	13.5	---	---		---	
19		---	---	12.0	13.5	13.0	15.5	---	---		---	
20		---	---	11.0	13.5	14.0	17.0	---	---		---	
21		---	---	9.5	13.0	14.5	17.0	---	---		---	
22		---	---	9.0	---	13.5	15.5	---	---		---	
23		7.5	---	9.0	14.5	10.0	13.0	---	---		---	
24		8.5	---	8.5	14.5	---	12.0	---	---		---	
25		---	---	9.0	15.0	---	---	---	---		---	
26		---	---	9.0	15.5	---	13.5	---	---		---	
27		---	---	9.5	16.0	---	15.0	---	---		---	
28		10.0	---	10.0	15.5	---	14.0	---	---		---	
29		10.0	---	10.0	---	---	13.5	---	---		---	
30		9.5	7.0	11.5	---	---	13.5	---	---		---	
31		---	8.0	11.0	---	17.0	---	---	---		---	
MONTH		---	---	9.5	11.5	---	13.5	---	---		---	

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.00	0	.00	.00	0	.00	.06	156	.03
2	.00	0	.00	.00	0	.00	2.9	1220	19
3	.00	0	.00	.00	0	.00	.52	80	.11
4	.00	0	.00	.00	0	.00	.29	9	.01
5	.00	0	.00	.00	0	.00	.23	6	.00
6	.00	0	.00	.00	0	.00	.15	6	.00
7	.00	0	.00	.00	0	.00	.19	10	.01
8	.00	0	.00	.00	0	.00	.15	13	.01
9	.00	0	.00	.00	14	.00	.11	20	.01
10	.00	0	.00	.01	27	.00	.09	28	.01
11	.00	0	.00	.01	---	.00	.09	25	.01
12	.00	0	.00	.01	0	.00	.07	23	.00
13	.00	0	.00	.00	0	.00	.07	21	.00
14	.00	0	.00	.00	0	.00	.09	20	.00
15	.00	0	.00	.00	0	.00	.09	20	.00
16	.00	0	.00	.00	0	.00	.09	19	.00
17	.00	0	.00	.00	0	.00	.09	19	.00
18	.00	0	.00	.00	0	.00	.09	18	.00
19	.00	0	.00	.00	0	.00	.09	18	.00
20	.00	0	.00	.00	0	.00	.09	17	.00
21	.02	182	.02	.00	0	.00	.09	17	.00
22	.00	0	.00	.00	0	.00	.09	16	.00
23	.00	0	.00	.00	0	.00	.09	36	.01
24	.00	0	.00	.27	---	.87	.09	30	.01
25	.00	0	.00	.09	---	.01	.09	19	.00
26	.00	0	.00	.00	0	.00	.09	7	.00
27	.00	0	.00	.00	0	.00	.09	6	.00
28	.00	0	.00	.02	74	.01	.09	5	.00
29	.00	0	.00	.96	845	3.6	.28	16	.02
30	.00	0	.00	.19	177	.09	.46	8	.01
31	.00	0	.00	---	---	---	.20	9	.00
TOTAL	0.02	---	0.02	1.56	---	4.58	7.21	---	19.25
JANUARY			FEBRUARY			MARCH			
1	.15	19	.01	5.2	220	3.1	7.3	119	2.3
2	.13	27	.01	9.7	2570	128	6.7	120	2.2
3	.11	18	.01	5.8	842	13	6.2	120	2.0
4	2.1	337	2.7	3.8	112	1.1	5.6	95	1.4
5	1.2	156	.55	3.0	35	.28	5.1	95	1.3
6	.58	56	.09	2.6	21	.15	4.6	77	.96
7	.35	15	.01	2.3	15	.09	12	1270	72
8	.29	9	.01	2.1	12	.07	50	6000	1750
9	.24	7	.00	1.9	11	.06	15	721	40
10	.20	7	.00	1.7	9	.04	61	6730	1460
11	.20	6	.00	1.7	11	.05	37	3460	565
12	.17	6	.00	4.1	409	16	21	1280	95
13	.17	6	.00	4.8	323	4.2	34	3530	564
14	.21	14	.01	41	5670	1710	17	797	38
15	.34	15	.01	50	5430	1260	21	---	107
16	11	1500	178	146	11900	7290	22	1420	103
17	13	1420	118	385	22400	26400	15	435	18
18	1.4	110	.42	165	---	9630	13	300	11
19	.71	17	.03	95	---	1680	11	235	7.0
20	.46	20	.02	47	---	279	9.1	192	4.7
21	.34	12	.01	27	840	61	8.0	145	3.1
22	.29	13	.01	21	445	25	7.7	161	3.3
23	.78	40	.11	16	295	13	7.3	150	3.0
24	.31	13	.01	14	204	7.7	6.8	137	2.5
25	.24	14	.01	12	185	6.0	6.3	125	2.1
26	.23	11	.01	11	165	4.9	6.0	112	1.8
27	.23	13	.01	9.6	172	4.5	5.9	99	1.6
28	.23	9	.01	8.7	148	3.5	5.3	87	1.2
29	.78	103	.46	---	---	---	5.1	76	1.0
30	2.3	1040	9.3	---	---	---	4.8	65	.84
31	15	1770	165	---	---	---	4.3	58	.67
TOTAL	53.74	---	474.82	1097.0	---	48540.74	441.1	---	4865.97

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	3.9	49	.52						
2	3.6	41	.40						
3	3.5	37	.35						
4	3.3	36	.32						
5	3.4	39	.37						
6	3.4	57	.53						
7	3.2	50	.43						
8	3.0	33	.27						
9	2.9	32	.25						
10	2.7	25	.18						
11	2.6	25	.18						
12	2.5	20	.14						
13	2.4	17	.11						
14	2.3	13	.08						
15	2.3	20	.12						
16	2.4	27	.17						
17	2.3	18	.11						
18	2.2	19	.11						
19	2.0	17	.09						
20	2.0	14	.08						
21	1.9	13	.07						
22	1.8	12	.06						
23	1.8	11	.05						
24	1.7	13	.06						
25	1.7	14	.06						
26	1.7	12	.06						
27	1.7	18	.08						
28	1.6	13	.06						
29	1.5	21	.09						
30	1.3	32	.11						
31	---	---	---						
TOTAL	72.6	---	5.51						
PERIOD	1673.23		53643.89						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1985 TO APRIL 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	.02	0	0	0
NOVEMBER ...	1.56	4.58	0	4
DECEMBER ...	7.21	19.25	0	19
JANUARY 1986	53.74	474.82	9	484
FEBRUARY ...	1097.00	48540.74	983	49500
MARCH	441.10	4865.97	92	4960
APRIL	72.60	5.51	0	6
PERIOD	1673.23	53643.89	1084	54973

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
31...	1045	35	11.0	1750	165	35	48	56
31...	1140	70	11.0	7800	1470	39	48	53
31...	1335	35	11.5	3820	361	47	60	69
31...	1635	21	11.0	1520	86	61	73	78
FEB								
03...	1220	12	10.5	1040	34	--	--	--
14...	1115	25	13.0	3000	203	46	58	71
14...	1520	230	13.0	24900	15500	32	39	43
14...	1645	119	13.0	16600	5330	33	42	48

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN								
31...	70	82	88	95	99	100	--	--
31...	66	76	81	86	90	93	96	98
31...	81	92	95	97	99	100	--	--
31...	89	95	97	99	100	--	--	--
FEB								
03...	--	--	94	98	99	100	--	--
14...	85	94	96	98	99	100	--	--
14...	55	69	80	88	96	99	100	--
14...	60	72	81	90	97	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN								
31...	1055	11.0	17	45	17.0	3.7	1	3
31...	1150	11.0	15	71	21.0	12	1	2
31...	1645	11.0	33	25	16.5	3.3	--	--
FEB								
03...	1235	10.5	13	13	13.0	1.4	--	1
14...	1145	13.0	13	23	14.5	3.8	--	1
14...	1355	13.0	23	61	24.0	9.7	3	8
14...	1555	13.0	12	185	24.0	50	2	6
14...	1705	13.0	12	94	25.0	52	1	3
20...	1505	13.5	12	32	12.5	7.3	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN								
31...	20	36	42	48	61	79	96	100
31...	16	37	48	56	65	77	93	100
31...	4	14	26	41	62	83	97	100
FEB								
03...	16	58	82	91	96	99	100	--
14...	12	26	33	41	57	80	98	100
14...	27	44	51	58	68	78	90	100
14...	25	42	53	62	75	86	96	100
14...	13	31	40	46	54	64	77	100
20...	4	11	17	30	52	76	92	100

CASTRO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 500 ft east of Hayward City Hall, 700 ft upstream from mouth, and 700 ft downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi².

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years (water years 1972-74, 1978-86), 4.64 ft³/s, 3,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s, Jan. 23, 1983, gage height, 8.51 ft, from rating curve extended above 61 ft³/s on basis of slope-area measurements at gage height 3.92 ft and step backwater computation to gage height 10.40 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1800	530	5.38	Feb. 18	2100	*827	*6.67
Feb. 14	1415	688	6.10				

Minimum daily, 0.19 ft³/s, Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.25	6.5	.48	5.1	1.7	1.2	.76	.53	.57	.48	.38
2	.22	.26	30	.45	30	1.5	1.1	.64	.52	.53	.42	.44
3	.21	.26	5.2	3.8	16	1.4	1.2	7.9	.64	.58	.41	.44
4	.28	.26	1.0	32	3.8	1.3	1.1	6.9	.63	.52	.47	.39
5	.39	.25	1.7	4.2	2.9	1.3	3.5	.71	.56	.52	.38	.34
6	.31	.24	.63	1.0	1.9	1.2	2.9	.67	.69	.50	.40	.34
7	.30	.28	9.0	.71	1.5	36	1.1	.64	.55	.47	.35	.37
8	.31	.23	.77	.64	1.3	40	1.2	.70	.61	.46	.35	.34
9	.26	3.5	.63	.54	1.2	23	.96	.75	.64	.51	.38	.34
10	.29	11	.52	.52	1.1	78	1.2	.62	.58	.55	.37	.35
11	.35	9.2	.47	.51	1.1	35	.96	.57	.54	.56	.40	.39
12	.29	.33	.48	.48	26	12	.88	.70	.57	.49	.42	.36
13	.28	.23	.41	.44	7.9	40	.86	.58	.55	.49	.39	.34
14	.28	.21	.38	4.8	81	7.4	.87	.52	.50	.49	.39	.36
15	.34	.22	.34	3.4	66	22	2.7	.50	.54	.46	.38	.34
16	.30	.22	.34	43	77	22	5.4	.51	.51	.44	.34	2.5
17	.29	.20	.64	13	209	6.0	.95	.54	1.0	.42	.34	10
18	.31	.19	.33	2.5	93	4.5	.87	.56	.68	.42	.34	.50
19	.31	3.9	.45	1.5	46	3.8	.85	.54	.54	.44	.34	.36
20	5.9	3.2	.34	1.1	13	3.3	.83	.55	.55	.46	.39	.34
21	19	.21	.31	.92	7.2	2.9	.88	.72	.55	.45	.42	.30
22	.87	.22	.29	5.3	4.9	2.6	.80	.62	.65	.43	.39	.31
23	1.0	.25	.30	2.0	3.8	2.2	1.1	.59	.62	1.5	.41	.43
24	.36	52	.29	.85	3.2	2.0	.73	.59	.63	.44	.40	13
25	.31	1.6	.29	.74	3.1	1.8	.94	.64	.59	.41	.37	.65
26	.30	.55	.31	.69	2.6	1.7	.76	.68	.62	.40	.41	9.9
27	.27	.46	.29	.69	2.1	1.7	.73	.62	.50	.43	.51	2.7
28	.26	24	.26	.69	1.8	1.6	.98	.58	1.8	.63	.40	.50
29	.31	36	19	21	---	1.5	.77	.59	.54	.49	.37	.48
30	.30	1.3	4.1	18	---	1.4	.66	.61	.60	.51	.39	.44
31	.26	---	.59	47	---	1.4	---	.56	---	.53	.37	---
TOTAL	34.67	151.02	86.16	212.95	713.5	362.2	38.98	32.66	19.03	16.10	12.18	47.93
MEAN	1.12	5.03	2.78	6.87	25.5	11.7	1.30	1.05	.63	.52	.39	1.60
MAX	19	52	30	47	209	78	5.4	7.9	1.8	1.5	.51	13
MIN	.21	.19	.26	.44	1.1	1.2	.66	.50	.50	.40	.34	.30
AC-FT	69	300	171	422	1420	718	77	65	38	32	24	95

CAL YR 1985 TOTAL 654.20 MEAN 1.79 MAX 95 MIN .19 AC-FT 1300
WTR YR 1986 TOTAL 1727.38 MEAN 4.73 MAX 209 MIN .19 AC-FT 3430

CASTRO CREEK BASIN

11181390 WILDCAT CREEK AT VALE ROAD, AT RICHMOND, CA

LOCATION.--Lat 37°57'12", long 122°20'14", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank at upstream side of Vale Road bridge at Richmond, 3.6 mi upstream from mouth.

DRAINAGE AREA.--7.79 mi².

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR CA-81-2: 1979-80(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 65.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 2-5, 10, 11, Jan. 9, 10, 19, 20, Mar. 19 to Apr. 4.
Records fair. Minor storage in Lake Anza and Jewel Lake 5 mi upstream. No diversion above station.

AVERAGE DISCHARGE.--11 years, 6.15 ft³/s, 4,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s, Jan. 4, 1982, gage height, 14.68 ft, recorded by gage, 15.80 ft, from floodmarks; no flow Aug. 31, Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	0700	254	4.46	Mar. 10	0400	1,070	8.47
Jan. 16	2200	205	4.22	Mar. 15	0600	582	6.09
Feb. 18	1945	*1,120	*8.69				

Minimum daily, 0.03 ft³/s, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.35	28	.76	13	14	5.5	2.2	.79	.31	.15	.04
2	.08	.09	94	.59	30	13	5.1	2.8	.81	.30	.10	.05
3	.11	.09	25	.88	23	13	4.8	3.7	.80	.46	.09	.09
4	.10	.11	6.0	24	14	12	4.6	2.9	.77	.35	.06	.08
5	.12	.20	2.1	21	8.9	11	4.4	2.3	.71	.35	.06	.06
6	.08	.15	1.7	7.5	7.2	11	6.6	2.3	.67	.21	.06	.07
7	.09	.25	1.7	3.6	6.4	39	5.7	2.2	.61	.37	.08	.06
8	.15	.25	1.4	2.5	5.7	65	4.1	2.0	.59	.30	.08	.03
9	.29	2.1	1.1	1.9	5.3	33	3.6	1.8	.43	.28	.10	.03
10	.29	2.6	.85	1.6	4.8	289	3.5	1.9	.45	.24	.08	.17
11	.32	2.2	.67	1.5	4.6	63	3.1	1.5	.40	.30	.07	.21
12	.28	1.1	.55	1.3	21	43	2.9	1.5	.52	.34	.12	.24
13	.29	.89	.52	1.1	38	69	2.8	1.5	.48	.34	.14	.28
14	.24	.64	.50	2.1	229	30	2.7	1.4	.54	.27	.13	.41
15	.27	.60	.42	10	145	167	4.4	1.3	.49	.26	.11	.56
16	.24	.58	.42	49	216	93	6.7	1.1	.41	.28	.11	.73
17	.29	.48	.42	69	554	48	3.6	1.2	.31	.42	.09	.30
18	.30	.41	.41	11	373	29	2.8	1.1	.37	.27	.10	.11
19	.30	.51	.42	6.6	173	24	2.6	1.1	.35	.25	.10	1.8
20	2.6	.41	.42	5.1	99	21	2.3	1.3	.28	.22	.07	.15
21	1.7	.47	.37	4.1	57	19	2.2	1.4	.26	.13	.06	.11
22	.54	.51	.23	3.6	33	16	2.4	.94	.26	.20	.05	.13
23	.05	.55	.23	4.6	27	14	2.7	.75	.23	.31	.15	.24
24	.04	44	.23	3.4	22	12	2.5	.75	.26	.43	.09	4.2
25	.05	20	.23	2.3	20	11	2.4	.78	.32	.21	.04	1.6
26	.12	8.4	.23	1.9	17	10	2.3	.71	.35	.34	.05	5.2
27	.19	7.5	.21	1.6	16	8.8	2.0	.70	.33	.34	.09	2.8
28	.15	15	.11	1.5	15	8.0	1.8	.70	.32	.26	.10	3.1
29	.55	27	2.6	11	---	7.2	1.8	.71	.34	.27	.07	2.1
30	1.5	21	3.9	11	---	6.5	2.1	.72	.27	.23	.07	1.5
31	.82	---	1.4	35	---	5.9	---	.78	---	.16	.07	---
TOTAL	12.20	158.44	176.34	301.03	2177.9	1205.4	104.0	46.04	13.72	9.00	2.74	26.45
MEAN	.39	5.28	5.69	9.71	77.8	38.9	3.47	1.49	.46	.29	.088	.88
MAX	2.6	44	94	69	554	289	6.7	3.7	.81	.46	.15	5.2
MIN	.04	.09	.11	.59	4.6	5.9	1.8	.70	.23	.13	.04	.03
AC-FT	24	314	350	597	4320	2390	206	91	27	18	5.4	52
CAL YR 1985	TOTAL	779.86	MEAN	2.14	MAX	116	MIN	.02	AC-FT	1550		
WTR YR 1986	TOTAL	4233.26	MEAN	11.6	MAX	554	MIN	.03	AC-FT	8400		

RHEEM CREEK BASIN

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank 50 ft downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--1.49 mi².

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 13, 1965, at site 0.2 mi upstream at datum 7.74 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--25 years (water years 1962-86), 1.58 ft³/s, 1,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s, Dec. 20, 1969, gage height, 6.95 ft, from rating curve extended above 150 ft³/s; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	1200	198	4.98	Feb. 18	1900	*307	*6.10
Dec. 2	0715	231	5.35	Mar. 10	0245	215	5.20
Jan. 4	0945	235	5.39	Mar. 15	0445	303	6.06

Minimum, no flow, Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	18	.33	.90	.25	.68	.18	.21	.16	.16	.02
2	.13	.01	27	.25	8.8	.13	.97	.32	.18	.21	.08	.02
3	.04	.03	2.9	1.9	29	.12	.27	.86	.12	.16	.13	.02
4	.03	.02	1.5	35	1.6	.10	.32	.17	.14	.13	.18	.02
5	.03	0	3.5	5.5	.66	.10	.43	.20	.08	.15	.06	.02
6	.04	.02	.43	.35	.31	.09	3.8	.19	.09	.17	.06	.01
7	.05	.06	1.8	.13	.22	16	2.7	.14	.14	.14	.03	.03
8	.06	.09	.34	.09	.13	13	.58	.19	.10	.23	.07	.01
9	.05	2.5	.28	.07	.10	13	.30	.28	.09	.09	.03	.01
10	.04	7.8	.23	.06	.08	38	.27	.41	.19	.11	.03	.01
11	.03	.79	.19	.06	.14	10	.26	.42	.10	.13	.02	.02
12	.02	.05	.16	.05	22	2.4	.24	.28	.10	.14	.03	.02
13	.04	.02	.15	.05	8.6	16	.23	.20	.11	.19	.04	.07
14	.05	.02	.16	3.2	66	1.6	.26	.20	.14	.16	.03	.02
15	.04	.04	.15	13	26	47	1.9	.16	.12	.23	.02	.04
16	.05	.02	.15	21	43	11	5.0	.17	.09	.12	.03	1.3
17	.07	.01	.13	4.9	90	1.6	.20	.19	.13	.21	.03	.18
18	.08	.01	.14	.61	59	.91	.16	.19	.15	.19	.04	.04
19	.04	.01	.13	.27	21	.68	.14	.17	.14	.25	.03	.04
20	4.4	.01	.13	.16	4.5	.55	.14	.20	.13	.19	.02	.01
21	15	.03	.14	.11	6.8	.51	.14	.21	.15	.15	.02	.01
22	.86	.02	.14	2.3	1.3	.46	.16	.17	.17	.09	.03	.03
23	.33	.23	.17	.49	.81	.43	.15	.28	.14	.27	.02	.03
24	.05	57	.08	.11	.56	.39	.15	.17	.13	.05	.03	3.8
25	.04	7.3	.10	.09	.39	.35	.15	.13	.19	.11	.03	.15
26	.03	.39	.10	.07	.32	.33	.18	.10	.16	.10	.02	9.4
27	.03	.15	.10	.07	.25	.32	.20	.11	.35	.12	.02	1.2
28	.02	8.1	.09	.05	.21	1.1	.18	.14	.20	.14	.02	.10
29	.01	9.0	9.8	18	---	.27	.15	.19	.21	.06	.02	.05
30	.02	.34	8.9	1.8	---	.27	.18	.18	.20	.15	.02	.04
31	.01	---	.45	14	---	1.0	---	.21	---	.07	.02	---
TOTAL	21.71	94.08	77.54	124.07	392.68	177.96	20.49	7.01	4.45	4.67	1.37	16.72
MEAN	.70	3.14	2.50	4.00	14.0	5.74	.68	.23	.15	.15	.044	.56
MAX	15	57	27	35	90	47	5.0	.86	.35	.27	.18	9.4
MIN	.01	0	.08	.05	.08	.09	.14	.10	.08	.05	.02	.01
AC-FT	43	187	154	246	779	353	41	14	8.8	9.3	2.7	33

CAL YR 1985 TOTAL 410.48 MEAN 1.12 MAX 57 MIN 0 AC-FT 814
WTR YR 1986 TOTAL 942.75 MEAN 2.58 MAX 90 MIN 0 AC-FT 1870

PACHECO CREEK BASIN

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, Hydrologic Unit 18050001, on right bank 0.2 mi downstream from Bollinger Creek, and 1.0 mi southwest of San Ramon.

DRAINAGE AREA.--5.89 mi².

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 530 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 17 to Apr. 11. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--34 years, 3.41 ft³/s, 2,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s, Oct. 13, 1962, gage height, 16.98 ft, from rating curve extended above 200 ft³/s on basis of culvert computations at gage heights 14.20 ft, 16.98 ft, 12.09 ft, and 11.80 ft; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1900	*751	*7.63	Mar. 8	0415	334	4.56

Minimum, no flow, Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.06	.39	.38	4.6	11	7.6	2.5	1.1	.48	.20	.06
2	.01	.05	4.5	.34	8.5	10	7.3	2.5	1.2	.45	.20	.06
3	0	.04	1.3	.34	7.1	9.5	6.9	2.6	1.1	.46	.18	.07
4	0	.03	.51	3.6	3.3	8.8	6.6	2.7	1.1	.48	.17	.10
5	0	.03	.43	2.1	2.4	8.7	6.6	2.4	1.1	.46	.18	.09
6	.01	.03	.39	.86	2.1	8.4	6.7	2.4	1.1	.48	.20	.08
7	.01	.02	.53	.58	1.8	9.3	7.5	2.2	1.0	.48	.20	.08
8	.01	.03	.39	.45	1.6	95	6.0	2.1	.96	.46	.21	.11
9	.01	.05	.33	.43	1.4	26	5.1	2.0	.88	.48	.24	.16
10	.01	.60	.32	.39	1.3	116	4.7	1.9	.79	.49	.26	.14
11	.01	.49	.28	.38	1.2	65	4.5	1.8	.85	.43	.25	.08
12	.01	.20	.28	.34	6.5	52	4.4	1.8	.86	.41	.19	.08
13	.01	.13	.28	.33	6.6	100	4.2	1.7	.86	.40	.17	.15
14	.01	.13	.28	.39	48	64	4.1	1.6	.86	.38	.19	.18
15	.01	.13	.28	.56	91	49	4.2	1.6	.88	.36	.19	.17
16	.01	.13	.28	15	174	47	4.8	1.5	.84	.39	.21	.25
17	.01	.13	.26	11	380	32	4.3	1.4	.80	.42	.20	.37
18	.01	.13	.24	1.5	163	26	3.8	1.4	.74	.42	.16	.28
19	.01	.11	.24	.91	135	22	3.6	1.4	.72	.39	.12	.20
20	.01	.13	.24	.70	68	18	3.5	1.4	.72	.36	.11	.21
21	.14	.15	.24	.56	39	16	3.4	1.4	.67	.32	.13	.20
22	.10	.17	.24	.52	27	14	3.3	1.3	.64	.30	.17	.18
23	.08	.15	.24	1.3	22	13	3.3	1.3	.59	.40	.18	.17
24	.09	2.6	.24	.57	19	12	3.1	1.3	.60	.36	.13	.52
25	.04	.93	.24	.49	16	12	3.1	1.2	.60	.35	.10	.35
26	.04	.23	.24	.49	15	11	2.9	1.2	.60	1.0	.08	.26
27	.04	.17	.24	.49	14	10	2.8	1.2	.61	.75	.08	.84
28	.04	1.3	.24	.49	13	9.6	2.8	1.2	.60	.38	.10	.24
29	.04	3.3	.95	1.9	---	9.0	2.6	1.1	.58	.34	.13	.20
30	.05	.57	.94	3.1	---	8.5	2.5	1.0	.54	.30	.11	.20
31	.07	---	.44	17	---	8.0	---	1.1	---	.26	.08	---
TOTAL	.90	12.22	16.00	67.49	1272.4	900.8	136.2	52.2	24.49	13.44	5.12	6.08
MEAN	.029	.41	.52	2.18	45.4	29.1	4.54	1.68	.82	.43	.17	.20
MAX	.14	3.3	4.5	17	380	116	7.6	2.7	1.2	1.0	.26	.84
MIN	0	.02	.24	.33	1.2	8.0	2.5	1.0	.54	.26	.08	.06
AC-FT	1.8	24	32	134	2520	1790	270	104	49	27	10	12
CAL YR 1985 TOTAL	468.44			MEAN 1.28	MAX 121	MIN 0	AC-FT 929					
WTR YR 1986 TOTAL	2507.34			MEAN 6.87	MAX 380	MIN 0	AC-FT 4970					

PACHECO CREEK BASIN

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, Hydrologic Unit 18050001, on left bank 600 ft upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi².

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1395: 1953(M). WDR CA-79-2: 1978. WDR CA-84-2: 1974-75 (P), 1978-80 (P).

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1971, at site 0.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--34 years, 20.8 ft³/s, 15,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s, Jan. 31, 1963, gage height, 14.40 ft, site and datum then in use, from rating curve extended above 2,200 ft³/s on basis of computed discharge at gage height 13.16 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1945	*3,010	*8.39	Mar. 10	0915	1,260	5.07

Minimum daily, 3.3 ft³/s, Oct. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.7	17	8.2	50	41	36	16	10	7.0	6.4	5.0
2	3.8	3.6	113	7.2	95	37	33	17	11	7.3	6.3	5.0
3	3.7	3.5	35	6.8	128	36	31	19	11	6.7	6.1	5.0
4	3.5	3.5	12	110	35	36	31	24	11	6.6	6.2	4.9
5	3.4	3.5	9.8	29	21	34	36	18	11	6.3	5.8	4.9
6	3.3	3.9	8.0	11	18	36	39	17	10	6.3	5.8	4.9
7	3.3	3.7	14	7.7	17	166	42	16	10	6.3	5.8	4.9
8	3.3	3.7	9.0	6.4	15	730	32	16	10	6.6	5.5	5.1
9	3.4	4.0	7.8	6.0	14	192	29	17	10	6.4	5.7	4.9
10	3.4	44	7.0	5.1	14	771	28	15	9.8	6.3	5.9	5.2
11	3.4	19	6.4	4.9	14	284	28	16	9.5	6.9	5.9	5.6
12	3.4	7.0	5.9	4.9	66	250	27	17	9.9	6.6	5.9	5.6
13	4.2	5.0	5.5	4.9	96	359	24	16	10	6.5	5.8	5.4
14	3.5	4.5	5.2	11	377	137	25	16	10	6.6	5.6	5.4
15	3.5	4.4	4.9	11	610	285	25	17	10	6.6	5.4	5.6
16	3.6	4.4	4.6	104	895	272	40	16	9.9	6.5	5.4	12
17	3.9	4.4	4.4	106	2240	140	29	16	12	6.5	5.5	15
18	4.0	4.3	4.4	15	1050	97	25	16	14	6.7	5.6	8.5
19	4.0	4.1	4.3	13	1130	77	22	16	10	7.1	5.7	6.4
20	4.1	4.1	3.7	11	403	71	25	16	9.4	7.3	5.6	6.2
21	46	4.2	3.5	10	149	72	23	15	9.1	6.7	5.6	6.1
22	9.1	4.3	4.0	10	106	74	24	14	8.9	6.4	5.4	5.6
23	5.3	4.3	4.1	24	84	63	26	14	8.7	7.3	5.4	5.4
24	4.0	106	3.4	11	73	51	20	14	8.3	7.5	5.6	17
25	3.8	21	3.4	10	60	48	22	13	7.5	6.9	5.7	11
26	3.7	6.3	3.4	10	53	55	23	12	7.3	6.5	5.6	8.7
27	3.7	5.4	4.0	9.1	49	49	22	12	13	6.6	5.4	31
28	3.5	35	4.2	9.0	45	41	20	12	8.2	7.1	5.2	7.6
29	3.5	109	50	56	---	38	21	11	6.8	6.7	5.1	6.1
30	3.6	17	35	52	---	39	18	11	6.9	6.3	5.0	7.0
31	3.7	---	9.6	147	---	41	---	10	---	6.4	5.0	---
TOTAL	162.4	450.8	406.5	831.2	7907	4622	826	475	293.2	207.5	174.9	231.0
MEAN	5.24	15.0	13.1	26.8	282	149	27.5	15.3	9.77	6.69	5.64	7.70
MAX	46	109	113	147	2240	771	42	24	14	7.5	6.4	31
MIN	3.3	3.5	3.4	4.9	14	34	18	10	6.8	6.3	5.0	4.9
AC-FT	322	894	806	1650	15680	9170	1640	942	582	412	347	458

CAL YR 1985	TOTAL	4423.5	MEAN	12.1	MAX	726	MIN	2.7	AC-FT	8770
WTR YR 1986	TOTAL	16587.5	MEAN	45.4	MAX	2240	MIN	3.3	AC-FT	32900

PACHECO CREEK BASIN

11183600 WALNUT CREEK AT CONCORD, CA

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank at southwest city limits of Concord, 0.2 mi upstream from Southern Pacific Railroad bridge, 3.8 mi downstream from confluence of San Ramon and Las Trampas Creeks, and 10 mi downstream from Lafayette Reservoir.

DRAINAGE AREA.--85.2 mi².

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR CA-79-2: Drainage area. WDR CA-82-2: 1969(M), 1970(M), 1973(P), 1975(M), 1978(M), 1980(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Feb. 21 to Mar. 7 and Mar. 16 to Apr. 9. Records good. Flow slightly regulated by Lafayette Reservoir, capacity, 4,240 acre-ft. Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--18 years, 55.8 ft³/s, 40,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s, Jan. 5, 1982, gage height, 19.1 ft from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.70 ft³/s, Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1445	*8,410	*13.35	Mar. 8	0615	4,760	9.37

Minimum daily, 6.4 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	9.1	43	15	108	75	62	32	20	15	15	12
2	7.5	8.9	186	14	183	69	58	45	20	15	15	13
3	7.3	9.0	74	15	236	65	58	38	21	15	14	13
4	6.8	9.2	28	221	90	63	56	49	21	15	15	13
5	7.1	9.0	26	85	55	62	62	46	21	15	15	13
6	6.6	11	18	33	45	61	68	40	21	14	14	13
7	6.7	9.0	36	21	39	242	71	34	21	15	15	12
8	6.4	8.9	21	17	36	1110	52	32	22	15	13	19
9	6.7	13	16	16	33	161	47	33	21	15	13	24
10	15	96	15	15	32	990	46	29	21	15	13	18
11	11	41	14	15	31	269	44	29	20	17	13	12
12	7.3	16	12	14	129	254	42	30	21	16	13	12
13	8.1	12	12	14	193	348	40	28	21	16	12	24
14	7.3	11	12	28	810	215	40	28	22	17	13	20
15	11	11	12	35	1100	413	40	28	22	15	12	27
16	9.3	11	12	160	2180	308	61	28	21	15	13	36
17	13	10	12	183	6260	201	43	29	21	15	14	27
18	21	9.9	12	43	2270	166	37	29	24	15	14	30
19	20	9.6	12	29	1880	147	35	27	20	16	18	27
20	15	9.9	12	25	387	132	35	27	21	16	14	24
21	119	9.6	12	21	285	120	34	26	21	16	14	17
22	32	9.7	12	23	205	112	33	25	18	14	13	12
23	13	11	12	57	160	103	33	24	19	17	13	11
24	17	248	12	25	134	97	32	24	17	16	13	42
25	10	75	11	21	119	89	31	23	16	25	14	35
26	10	21	11	19	106	85	31	22	15	28	13	31
27	10	16	11	18	92	81	30	22	21	27	12	68
28	9.7	79	11	18	83	74	31	21	17	18	12	27
29	9.2	168	78	121	---	71	30	21	15	16	12	24
30	9.5	34	66	132	---	69	31	20	15	15	13	16
31	9.4	---	19	262	---	69	---	20	---	15	13	---
TOTAL	449.7	995.8	840	1715	17281	6321	1313	909	596	514	420	672
MEAN	14.5	33.2	27.1	55.3	617	204	43.8	29.3	19.9	16.6	13.5	22.4
MAX	119	248	186	262	6260	1110	71	49	24	28	18	68
MIN	6.4	8.9	11	14	31	61	30	20	15	14	12	11
AC-FT	892	1980	1670	3400	34280	12540	2600	1800	1180	1020	833	1330

CAL YR 1985 TOTAL 11318.4 MEAN 31.0 MAX 2220 MIN 6.4 AC-FT 22450
WTR YR 1986 TOTAL 32026.5 MEAN 87.7 MAX 6260 MIN 6.4 AC-FT 63520

PACHECO CREEK BASIN

11183700 LITTLE PINE CREEK NEAR ALAMO, CA

LOCATION.--Lat 37°53'06", long 121°58'36", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 200 ft downstream from road ford, 1.2 mi upstream from mouth, and 3.8 mi northeast of Alamo.

DRAINAGE AREA.--1.22 mi².

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 520 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 23 to Mar. 7 and Mar. 14 to Apr. 9. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years, 0.37 ft³/s, 268 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft³/s, Jan. 4, 1982, gage height, 2.41 ft, from rating curve extended above 12 ft³/s, on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0630	*50	*2.18				

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.05	.51	1.5	.75	.32	.07			
2			.26	.05	.41	1.4	.72	.32	.07			
3			.13	.05	.92	1.3	.69	.35	.08			
4			.05	.39	.53	1.2	.66	.37	.07			
5			.02	.22	.38	1.1	.70	.32	.08			
6			.02	.12	.32	1.0	.74	.31	.08			
7			.05	.09	.27	.90	.72	.27	.07			
8			.04	.07	.24	7.0	.67	.25	.05			
9			.03	.07	.20	4.3	.62	.22	.03			
10			.03	.06	.17	8.2	.58	.22	.02			
11			.02	.06	.17	5.0	.54	.21	.02			
12			.02	.06	.42	4.6	.50	.19	.03			
13			.02	.05	.58	4.8	.49	.18	.02			
14			.02	.06	3.2	3.8	.47	.17	.03			
15			.02	.06	7.4	4.7	.48	.16	.03			
16			.02	.24	8.0	4.0	.61	.14	.03			
17			.02	.41	18	3.5	.55	.12	.03			
18			.02	.20	14	2.7	.50	.11	.03			
19			.02	.16	16	2.3	.47	.11	.02			
20			.02	.11	7.4	2.0	.44	.13	.02			
21			.02	.10	4.7	1.8	.43	.13	.01			
22			.02	.09	3.7	1.6	.43	.11	.01			
23			.02	.09	3.3	1.5	.43	.11	.01			
24			.02	.08	2.8	1.3	.41	.10	0			
25			.02	.07	2.4	1.2	.40	.10	0			
26			.02	.07	2.1	1.1	.37	.08	0			
27			.02	.07	1.9	1.0	.35	.08	0			
28			.02	.07	1.7	.96	.34	.07	0			
29			.15	.24	---	.90	.33	.06	0			
30			.14	.25	---	.84	.31	.05	0			
31			.06	.87	---	.79	---	.05	---			
TOTAL	0	0	1.34	4.58	101.72	78.29	15.70	5.41	.91	0	0	0
MEAN	0	0	.043	.15	3.63	2.53	.52	.17	.030	0	0	0
MAX	0	0	.26	.87	18	8.2	.75	.37	.08	0	0	0
MIN	0	0	0	.05	.17	.79	.31	.05	0	0	0	0
AC-FT	0	0	2.7	9.1	202	155	31	11	1.8	0	0	0
CAL YR 1985	TOTAL	19.80	MEAN	.054	MAX	4.7	MIN	0	AC-FT	39		
WTR YR 1986	TOTAL	207.95	MEAN	.57	MAX	18	MIN	0	AC-FT	412		

NAPA RIVER BASIN

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank 0.2 mi upstream from highway bridge, 1.3 mi northeast of Zinfandel, and 2.5 mi east of St. Helena.

DRAINAGE AREA.--81.4 mi².

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area. WDR CA-78-2: 1977(M).

GAGE.--Water-stage recorder. Elevation of gage is 170.12 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: June 16 to June 30. Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft. Small diversions above station for irrigation of about 1,500 acres.

AVERAGE DISCHARGE.--50 years, 100 ft³/s, 72,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s Feb. 17, 1986, gage height, 18.52 ft, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft³/s, and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1900	*16,900	*18.52				

Minimum daily, 0.33 ft³/s, Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.0	27	14	461	190	78	27	9.6	4.6	2.4	1.7
2	1.4	2.0	371	12	922	160	71	31	9.6	4.2	2.2	1.6
3	1.2	2.0	88	12	706	140	68	34	9.4	4.0	2.1	1.4
4	1.1	1.9	36	131	436	127	64	30	9.4	4.3	2.0	1.3
5	.88	1.9	31	141	276	118	61	28	9.8	3.8	1.9	1.1
6	.87	1.7	26	85	194	103	60	27	9.8	3.5	1.9	1.3
7	1.0	.55	35	47	148	220	62	23	10	3.5	1.6	1.3
8	1.2	.33	30	33	116	1010	58	23	9.7	4.4	1.6	1.2
9	1.0	.36	23	27	95	667	53	23	9.4	6.7	1.7	1.3
10	.87	2.3	20	24	80	1460	50	22	8.9	6.2	1.7	1.3
11	.79	2.6	18	22	73	996	47	22	8.3	4.5	1.4	1.3
12	.99	1.8	16	20	309	989	45	22	9.2	4.3	1.3	1.4
13	1.1	.74	15	19	938	833	42	21	9.1	4.3	1.2	1.3
14	1.1	.55	15	22	7200	581	40	20	8.9	3.7	.72	1.3
15	1.1	.52	14	33	4500	1330	39	19	8.4	3.4	.78	1.5
16	1.2	.61	13	920	4410	1430	42	19	8.2	3.5	1.5	2.9
17	1.2	.53	12	728	13700	668	45	18	7.7	3.2	1.6	6.7
18	1.2	.53	11	228	5500	468	40	18	7.4	3.2	1.3	6.4
19	1.2	.51	11	134	3510	357	38	17	6.9	3.1	1.3	4.0
20	1.3	.50	11	94	2000	288	36	17	6.2	3.0	1.3	3.0
21	5.2	.49	10	70	1400	244	35	17	5.2	2.8	1.2	2.2
22	4.1	.49	10	57	900	212	34	16	4.6	2.5	1.1	1.8
23	3.3	.66	9.9	75	700	185	33	16	5.8	2.7	1.3	2.2
24	2.6	24	9.7	54	520	163	31	15	5.8	2.7	1.6	2.8
25	2.3	11	9.7	46	411	146	30	15	5.6	2.7	1.8	3.9
26	2.1	4.4	9.6	41	330	132	30	15	5.4	2.5	1.8	4.8
27	2.0	4.4	9.4	38	271	120	29	14	5.8	2.4	1.7	8.5
28	2.0	7.5	9.4	35	230	108	28	13	6.0	2.5	1.6	5.2
29	2.0	82	11	209	---	97	28	13	6.0	2.6	1.6	3.5
30	2.0	33	21	337	---	91	27	12	5.4	2.6	1.7	3.1
31	2.0	---	17	509	---	86	---	11	---	2.6	1.7	---
TOTAL	51.70	191.87	949.7	4217	50336	13719	1344	618	231.5	110.0	48.60	81.3
MEAN	1.67	6.40	30.6	136	1798	443	44.8	19.9	7.72	3.55	1.57	2.71
MAX	5.2	82	371	920	13700	1460	78	34	10	6.7	2.4	8.5
MIN	.79	.33	9.4	12	73	86	27	11	4.6	2.4	.72	1.1
AC-FT	103	381	1880	8360	99840	27210	2670	1230	459	218	96	161

CAL YR 1985	TOTAL	13844.04	MEAN	37.9	MAX	3230	MIN	.27	AC-FT	27460
WTR YR 1986	TOTAL	71898.67	MEAN	197	MAX	13700	MIN	.33	AC-FT	142600

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi downstream from Dry Creek, 5 mi north of Napa, and 12.8 mi downstream from Conn Dam.

DRAINAGE AREA.--218 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Hennessey beginning in December 1945, located 12.8 mi upstream (capacity 31,000 acre-ft); Rector Reservoir beginning in 1948, located 12.4 mi upstream (capacity 4,400 acre-ft); Bell Canyon Reservoir beginning in 1959, located 19.6 mi upstream (capacity 2,530 acre-ft). Diversions for irrigation above the station for about 10,000 acres.

AVERAGE DISCHARGE.--30 years, 218 ft³/s, 157,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft³/s, Feb. 18, 1986, gage height, 30.20 ft from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,100 ft³/s, Feb. 18, gage height, 30.20 ft; minimum daily, 3.2 ft³/s, Oct. 5, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	6.2	38	29	860	550	230	62	24	12	5.5	4.3
2	3.8	6.0	388	26	1210	478	209	65	24	11	5.5	4.1
3	3.6	5.9	215	24	1100	401	198	77	23	9.9	5.5	4.4
4	3.4	5.9	91	128	789	359	185	71	23	9.2	6.1	4.1
5	3.2	5.8	64	292	504	337	175	68	22	9.2	6.2	4.4
6	3.4	5.6	56	183	377	299	168	59	21	9.4	6.0	4.5
7	3.3	5.7	53	112	294	419	169	56	21	9.6	6.0	4.3
8	3.2	5.9	59	80	240	2060	160	56	20	8.3	5.9	4.6
9	3.4	5.5	47	66	200	1510	150	54	20	9.4	5.6	4.6
10	3.3	6.6	39	56	170	4160	143	51	17	10	5.6	4.4
11	3.6	8.6	34	48	154	2690	132	49	17	9.6	5.9	4.3
12	3.8	9.6	29	44	298	2370	123	47	16	8.1	5.9	4.3
13	3.6	9.1	26	40	1490	1930	110	43	15	8.2	5.4	4.5
14	3.5	7.7	25	39	10700	1410	108	43	15	8.6	4.3	4.4
15	3.6	6.9	24	50	10800	3340	102	43	16	8.3	4.5	4.4
16	3.8	7.0	23	737	7970	5000	101	42	16	8.6	4.9	4.3
17	3.9	7.0	21	1580	26200	2300	107	41	15	9.2	4.8	4.5
18	4.1	6.8	20	441	21600	1480	96	39	14	9.0	4.8	6.5
19	4.2	6.7	19	268	11400	1100	93	37	14	8.6	4.2	8.2
20	4.7	6.9	19	195	5860	873	87	37	13	8.5	4.7	7.2
21	7.6	6.9	18	152	3520	728	84	35	13	8.6	4.9	6.2
22	9.4	6.7	18	126	2320	636	81	35	13	8.5	4.9	5.7
23	10	7.1	18	143	1740	560	76	36	13	8.0	4.9	5.1
24	9.2	11	18	117	1350	495	75	37	12	8.0	4.8	5.7
25	7.7	47	17	100	1070	432	71	36	11	7.4	4.7	5.5
26	6.8	21	17	91	885	387	72	34	11	6.6	4.5	6.0
27	6.7	13	17	84	746	350	72	32	12	7.2	4.5	7.0
28	6.7	15	17	77	636	309	67	32	13	6.9	4.4	8.6
29	6.3	59	18	162	---	281	65	30	12	6.7	4.4	8.1
30	6.3	88	33	560	---	260	60	29	12	6.1	4.6	7.0
31	6.3	---	38	638	---	247	---	26	---	5.4	4.4	---
TOTAL	156.2	410.1	1519	6688	114483	37751	3569	1402	488	264.1	158.3	161.2
MEAN	5.04	13.7	49.0	216	4089	1218	119	45.2	16.3	8.52	5.11	5.37
MAX	10	88	388	1580	26200	5000	230	77	24	12	6.2	8.6
MIN	3.2	5.5	17	24	154	247	60	26	11	5.4	4.2	4.1
AC-FT	310	813	3010	13270	227100	74880	7080	2780	968	524	314	320
CAL YR 1985	TOTAL	28038.2	MEAN	76.8	MAX	7130	MIN	2.0	AC-FT	55610		
WTR YR 1986	TOTAL	167049.9	MEAN	458	MAX	26200	MIN	3.2	AC-FT	331300		

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

CHEMICAL DATA: Water years 1973 to current year.

BIOLOGICAL DATA: Water years 1978-81.

SPECIFIC CONDUCTANCE: Water years 1978-81.

WATER TEMPERATURE: Water years 1977-81.

SEDIMENT DATA: Water years 1971, 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to September 1981.

WATER TEMPERATURE: October 1976 to September 1981.

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to September 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 microsiemens, Sept. 1, 1981; minimum recorded, 81 microsiemens, Mar. 1, 1979.

WATER TEMPERATURE: Maximum recorded, 28.0°C, July 13, 1979; minimum recorded, 3.0°C, Dec. 31, 1978, Jan 1, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED	COLI- FORM, FECAL, 0.7	STREP- TOCOCCI FECAL, KF AGAR	HARD- NESS (MG/L AS CACO3)
						(MM OF HG)			(PER- CENT SATUR- ATION)	(COLS./ 100 ML)	(COLS. PER 100 ML)	
NOV 13...	1000	9.1	420	7.40	8.0	770	1.0	11.2	93	--	32	190
JAN 21...	1145	153	244	7.40	11.5	765	11	10.7	98	87	130	95
MAR 19...	1355	1020	203	7.60	14.0	770	40	9.8	94	K110	250	87
MAY 21...	1000	36	344	7.60	17.0	765	1.5	9.3	96	70	68	150
SEP 23...	1110	5.1	429	8.20	16.0	760	0.5	9.5	97	K14	46	190
DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 13...	11	28	29	21	19	0.7	2.3	218	179	179	27	23
JAN 21...	13	18	12	16	26	0.7	2.3	99	82	83	17	12
MAR 19...	9	15	12	9.3	18	0.4	2.0	96	78	80	15	6.0
MAY 21...	6	26	21	18	20	0.7	2.2	178	146	144	26	11
SEP 23...	3	29	29	20	18	0.6	2.1	230	189	188	30	15
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	
NOV 13...	0.2	33	252	270	0.34	0.01	0.45	0.02	0.04	0.2	0.18	
JAN 21...	0.2	37	160	170	0.22	0.03	1.90	0.11	0.11	0.6	0.19	
MAR 19...	0.1	33	172	150	0.23	<0.01	0.32	0.05	0.03	0.5	0.14	
MAY 21...	0.2	37	234	230	0.32	<0.01	0.99	0.03	0.02	0.3	0.06	
SEP 23...	0.2	31	268	270	0.36	<0.01	<0.10	0.02	0.01	0.2	0.03	

See footnotes at end of table

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 13...	0.17	0.16	<10	2	73	<0.5	<1	<1	<3	<1	11
JAN 21...	0.17	0.15	130	2	50	<0.5	<1	<1	<3	1	61
MAR 19...	0.08	0.07	--	--	--	--	--	--	--	--	--
MAY 21...	0.05	0.05	<10	2	70	<0.5	<1	<1	<3	1	8
SEP 23...	0.02	0.02	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 13...	<1	34	7	<0.1	<10	1	<1	<1	200	<6	7
JAN 21...	<1	25	7	<0.1	<10	<1	<1	<1	130	<6	5
MAR 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	<1	29	11	<0.1	<10	<1	<1	<1	180	<6	5
SEP 23...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SEDI- MENT, SUS- PENDE (MG/L)
MAR										
19...*	1245	40.0	205	7.60	14.0	770	9.8	94	96	
19...*	1250	51.0	202	7.60	14.0	770	10.0	96	90	
19...*	1255	60.0	202	7.60	14.0	770	9.7	93	101	
19...*	1300	68.0	204	7.60	14.0	770	9.8	94	94	
19...*	1310	78.0	202	7.60	14.0	770	9.7	93	84	

*Instantaneous streamflow at the time of cross-sectional measurements: Mar. 19, 1,020 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- SUS- PENDE (T/DAY)
NOV 13...	1045	9.4	8.0	3	0.08
JAN 21...	1215	150	11.5	15	6.1
MAR 19...	1450	1070	14.0	86	248
MAY 21...	0945	36	17.0	5	0.49
SEP					

NOVATO CREEK BASIN

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", Long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank in Novato, 100 ft upstream from 7th Street Bridge, and 3.9 downstream from Novato Creek Dam.

DRAINAGE AREA.--17.6 mi².

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Datum of gage is 14.76 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1967, at site 0.6 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Mar. 27 to Apr. 4. Records good. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft since Oct. 18, 1954; contents 650 acre-ft, Sept. 30, 1985, and 2,010 acre-ft, Sept. 30, 1986. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,624 acre-ft for the current year. No diversion from Russian River into Stafford Lake during current year.

COOPERATION.--Record of diversions were provided by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--40 years, 15.0 ft³/s, 10,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s, Jan. 4, 1982, gage height, 14.46 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,530 ft³/s, Feb. 17, gage height, 12.44 ft; minimum daily, 0.05 ft³/s, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	8.8	19	.95	36	43	9.8	3.0	1.4	1.1	.71	.64
2	.22	.58	44	1.5	67	38	8.6	3.4	1.4	1.0	.69	.67
3	.38	.24	4.0	1.2	75	34	7.4	2.0	1.4	1.0	.69	.72
4	.22	1.3	2.0	41	35	28	7.0	2.4	1.4	1.0	.69	.70
5	.18	.21	2.0	7.7	25	23	6.1	1.6	1.5	.97	.70	.69
6	.15	.08	2.1	4.3	19	21	6.3	1.8	1.4	1.1	.73	.65
7	.18	.57	2.7	2.4	16	39	11	1.5	1.5	1.0	.73	.67
8	.31	.32	1.5	1.9	13	83	9.5	1.5	1.4	1.1	.75	.69
9	.22	.76	1.4	2.3	11	107	8.1	1.7	1.5	1.1	.74	.71
10	.15	4.2	1.3	1.4	11	246	6.6	1.6	1.5	1.1	.72	.67
11	.08	1.5	1.2	1.4	12	201	5.3	1.7	1.6	1.0	.73	.61
12	.16	.33	1.2	1.5	75	163	5.1	1.5	1.4	1.1	.78	.77
13	.07	.17	1.7	2.6	51	194	3.6	1.5	1.4	1.1	.76	.70
14	.05	.16	1.2	6.7	702	132	3.4	1.5	1.3	1.0	1.3	.68
15	.09	.17	.93	39	214	313	4.4	1.4	1.3	1.0	.91	.69
16	.07	.17	1.5	113	460	347	6.7	1.4	1.3	.97	.78	6.9
17	.15	.20	1.6	49	1630	234	5.5	1.4	1.3	1.0	.75	3.1
18	.08	.27	1.3	21	1120	186	4.1	1.4	1.2	1.1	.71	2.2
19	.21	.53	2.3	14	845	144	3.2	1.4	1.2	1.1	.72	.59
20	5.5	.46	1.0	11	396	72	3.0	1.4	1.1	1.0	.73	.47
21	3.7	.55	.81	8.8	235	27	2.8	1.4	1.1	1.0	.73	.44
22	.21	.49	.70	8.9	166	25	3.1	1.4	1.0	.99	.71	.44
23	.11	.70	.75	8.8	126	27	2.7	1.4	.95	1.0	.70	.50
24	.10	40	.70	6.1	100	27	2.4	.98	.95	.87	.69	2.8
25	.09	2.1	.67	5.0	81	25	2.1	1.3	1.2	.86	.68	.68
26	.09	.79	.71	4.4	68	21	1.9	1.4	1.4	.86	.68	5.1
27	.08	.58	.64	3.8	58	18	1.8	1.4	1.2	.84	.70	2.1
28	.08	11	.62	3.7	49	16	1.9	1.4	1.1	.80	.68	.98
29	.09	16	5.2	77	---	14	1.8	1.4	1.1	.78	.72	.94
30	.11	1.2	8.7	35	---	13	2.3	1.4	1.2	.77	.68	.82
31	.10	---	1.4	80	---	11	---	1.4	---	.73	.66	---
TOTAL	13.58	94.43	114.83	565.35	6696	2872	147.5	49.98	38.70	30.34	22.95	38.32
MEAN	.44	3.15	3.70	18.2	239	92.6	4.92	1.61	1.29	.98	.74	1.28
MAX	5.5	40	44	113	1630	347	11	3.4	1.6	1.1	1.3	6.9
MIN	.05	.08	.62	.95	11	11	1.8	.98	.95	.73	.66	.44
AC-FT	27	187	228	1120	13280	5700	293	99	77	60	46	76

CAL YR 1985 TOTAL 952.37 MEAN 2.61 MAX 139 MIN .05 AC-FT 1890
WTR YR 1986 TOTAL 10683.98 MEAN 29.3 MAX 1630 MIN .05 AC-FT 21190

CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, Hydrologic Unit 18050002, on left bank behind fire station at Ross, 1.7 mi southwest of San Rafael, 1.7 mi below Phoenix Lake, and 4 mi upstream from mouth.

DRAINAGE AREA.--18.1 mi².

PERIOD OF RECORD.--February 1951 to current year.

REVISED RECORD.--WDR 85-2: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good, except for low-flow periods during summer months, which are fair. Flow slightly regulated by Phoenix Lake, capacity, 612 acre-ft. Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--35 years, 29.8 ft³/s, 21,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s, Jan. 4, 1982, gage height, 19.81 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1845	1,210	11.33	Mar. 9	2230	1,720	13.09
Feb. 17	1845	*4,150	*18.07	Mar. 15	0515	1,290	11.60

Minimum daily, 0.02 ft³/s, Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	1.2	48	11	223	30	10	3.3	1.9	.84	.13	.23
2	.09	1.2	200	8.5	348	26	9.4	4.7	1.7	.90	.14	.18
3	.08	1.5	38	14	201	24	8.6	5.5	1.7	.70	.14	.26
4	.07	2.1	13	269	121	21	8.1	4.8	1.6	.69	.26	.31
5	.06	2.4	11	124	99	19	8.4	3.8	1.5	.87	.26	.39
6	.07	2.8	7.7	51	55	17	11	4.0	1.6	.87	.21	.49
7	.14	3.1	9.1	35	50	77	11	3.2	1.4	1.1	.44	.38
8	.63	3.0	6.2	26	45	194	8.1	2.9	1.1	1.1	.49	.48
9	.30	1.1	4.9	20	40	322	7.5	2.8	.90	1.2	.34	.52
10	.08	15	4.4	17	35	737	7.2	2.6	1.0	.87	.48	.58
11	.14	.66	3.3	14	33	326	6.5	2.6	.90	.95	.59	.60
12	.05	.08	3.6	12	449	262	5.9	2.6	.83	1.0	.85	.66
13	.07	.08	3.3	11	456	257	5.4	2.4	.83	.90	.17	.49
14	.08	.10	3.3	19	1550	143	5.3	2.1	.87	.74	.18	.44
15	.14	.13	3.0	101	583	599	8.1	2.2	.69	.53	.31	.68
16	.11	.21	2.8	804	1280	477	14	2.1	.79	.70	.34	2.9
17	.10	.19	2.8	300	2950	213	7.1	2.0	.78	.73	.35	.52
18	.12	.13	2.5	94	1140	120	5.6	1.9	.61	.80	.34	.39
19	.15	.13	2.3	54	722	79	5.1	1.7	.68	.57	.23	1.1
20	11	.12	2.2	39	378	60	4.9	1.6	.76	.54	.19	.39
21	13	.15	2.2	31	227	51	4.7	1.8	.55	.52	.26	.46
22	.19	.16	2.0	32	141	45	4.6	1.7	.43	.60	.37	.85
23	.05	.52	2.0	39	103	37	4.1	1.8	.57	.69	.34	1.2
24	.05	115	2.0	28	78	32	4.2	1.6	.55	.96	.39	2.9
25	.05	22	1.7	23	63	27	4.1	1.7	.58	.94	.33	1.9
26	.05	3.6	1.7	20	49	23	3.9	1.9	.69	.81	.40	1.9
27	.05	2.1	1.4	17	40	20	3.7	1.9	.80	.83	.24	1.1
28	.18	14	1.4	14	35	17	3.4	2.1	.98	.60	.19	.02
29	.40	53	14	251	---	14	3.3	2.0	.80	.08	.31	.02
30	.56	11	48	192	---	13	3.4	1.7	.84	.10	.24	.07
31	1.0	---	17	482	---	12	---	1.8	---	.11	.16	---
TOTAL	29.18	256.76	464.8	3152.5	11494	4294	196.6	78.8	28.93	22.84	9.67	22.41
MEAN	.94	8.56	15.0	102	411	139	6.55	2.54	.96	.74	.31	.75
MAX	13	115	200	804	2950	737	14	5.5	1.9	1.2	.85	2.9
MIN	.05	.08	1.4	8.5	33	12	3.3	1.6	.43	.08	.13	.02
AC-FT	58	509	922	6250	22800	8520	390	156	57	45	19	44

CAL YR 1985	TOTAL	5048.13	MEAN 13.8	MAX 1070	MIN .05	AC-FT 10010
WTR YR 1986	TOTAL	20050.49	MEAN 54.9	MAX 2950	MIN .02	AC-FT 39770

ARROYO CORTE MADERA DEL PRESIDIO BASIN

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, Hydrologic Unit 18050002, on right bank near south boundary of town of Mill Valley, 1 mi upstream from mouth.

DRAINAGE AREA.--4.69 mi².

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to September 1986 (discontinued).

REVISED RECORDS.--WDR CA-82-2: 1978-81(P).

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 17. Records good except for estimated daily discharge, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years, 7.95 ft³/s, 5,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s, Jan. 21, 1970, gage height, 7.52 ft, from rating curve extended above 300 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 9.47 ft, Feb. 17, 1986 (backwater); no flow for many days in 1968, 1975-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 220 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	0745	295	5.45	Feb. 17	Unknown	*Unknown	*9.47
Jan. 4	1000	232	5.13	Mar. 10	0315	690	6.85
Jan. 16	2215	316	5.55	Mar. 15	0445	455	6.09

Minimum daily, 0.03 ft³/s, Oct. 10-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.41	26	4.9	40	8.1	4.3	1.7	.88	.46	.21	.21
2	.06	.41	72	3.9	42	7.3	3.8	1.9	.83	.45	.21	.21
3	.07	.39	22	4.0	35	6.7	3.5	2.0	.76	.44	.24	.21
4	.05	.36	12	82	25	6.2	3.4	1.8	.73	.43	.24	.21
5	.04	.38	11	70	19	5.6	3.4	1.7	.73	.45	.23	.21
6	.04	.35	9.3	35	14	5.1	4.1	1.8	.73	.43	.24	.21
7	.04	.27	10	18	11	28	3.5	1.6	.68	.45	.22	.23
8	.04	.28	7.6	12	9.2	60	3.2	1.5	.65	.45	.24	.23
9	.04	1.1	6.1	8.4	7.7	59	3.0	1.5	.64	.43	.23	.22
10	.03	3.5	5.0	6.6	6.8	253	2.8	1.4	.63	.41	.22	.18
11	.03	.84	4.2	5.3	6.3	85	2.7	1.4	.63	.38	.26	.13
12	.03	.63	3.6	4.5	80	72	2.6	1.3	.64	.38	.26	.12
13	.03	.60	2.9	4.0	104	70	2.5	1.3	.64	.38	.25	.13
14	.03	.52	2.6	5.4	248	40	2.4	1.2	.64	.38	.24	.13
15	.04	.50	2.3	31	155	139	3.0	1.1	.64	.37	.23	.15
16	.06	.50	2.2	169	216	111	5.2	1.2	.61	.35	.24	1.0
17	.05	.50	2.0	148	420	52	3.3	1.1	.58	.33	.23	.91
18	.04	.51	1.8	47	358	29	2.5	1.2	.50	.33	.21	.43
19	.04	.54	1.7	28	215	19	2.3	1.2	.49	.33	.17	.52
20	1.5	.51	1.6	19	103	15	2.2	1.2	.50	.33	.17	.37
21	1.4	.50	1.6	14	56	12	2.2	1.1	.66	.29	.21	.33
22	5.0	.51	1.5	15	37	10	2.2	1.1	.44	.29	.21	.33
23	1.3	.55	1.5	15	26	8.7	2.1	1.0	.48	.29	.20	.36
24	.64	49	1.4	13	19	7.6	2.1	1.0	.47	.32	.20	4.8
25	.56	14	1.3	11	15	6.9	2.0	1.0	.47	.33	.20	.64
26	.53	4.3	1.2	9.2	13	6.4	1.8	.99	.49	.30	.19	.63
27	.50	2.4	1.2	7.8	11	5.8	1.7	.93	.53	.29	.20	.59
28	.46	89	1.2	7.0	9.3	5.0	1.7	.92	.53	.28	.19	.42
29	.45	42	4.6	33	---	4.9	1.7	.92	.50	.26	.19	.38
30	.45	14	13	37	---	4.7	1.7	.92	.46	.24	.21	.39
31	.43	---	6.3	48	---	4.5	---	.90	---	.22	.21	---
TOTAL	14.05	229.36	240.7	916.0	2301.3	1147.5	82.9	39.88	18.16	11.07	6.75	14.88
MEAN	.45	7.65	7.76	29.5	82.2	37.0	2.76	1.29	.61	.36	.22	.50
MAX	5.0	89	72	169	420	253	5.2	2.0	.88	.46	.26	4.8
MIN	.03	.27	1.2	3.9	6.3	4.5	1.7	.90	.44	.22	.17	.12
AC-FT	28	455	477	1820	4560	2280	164	79	36	22	13	30
CAL YR 1985 TOTAL	1692.49			MEAN 4.64	MAX 310	MIN .03	AC-FT 3360					
WTR YR 1986 TOTAL	5022.55			MEAN 13.8	MAX 420	MIN .03	AC-FT 9960					

LAGUNITAS CREEK BASIN

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA

LOCATION.--Lat 38°01'37", long 122°44'07", Marin County, Hydrologic Unit 18050005, in Samuel P. Taylor State Park, on left bank 300 ft upstream from Deadmans Gulch, 0.9 mi downstream from park entrance, 2.1 mi northwest of Lagunitas, and 3.4 mi downstream from Kent Lake.

DRAINAGE AREA.--34.3 mi².

PERIOD OF RECORD.--Dec. 21, 1982, to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 102.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 28, 29, Feb. 21-25. Records good except for estimated daily discharges, which are fair. Flow regulated by Kent Lake, capacity 16,680 acre-ft, and Alpine Lake, capacity, 8,890 acre-ft, both of which divert water for domestic and industrial use in the county of Marin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,470 ft³/s, Feb. 18, 1986, gage height, 8.44 ft; minimum daily, 3.9 ft³/s, Oct. 9, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,470 ft³/s, Feb. 18, gage height 8.44 ft; minimum daily, 4.4 ft³/s, Sept. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.1	24	20	133	68	17	14	7.6	7.2	5.4	4.6
2	5.6	5.1	181	18	249	60	15	15	7.6	6.7	5.1	4.4
3	5.5	5.0	38	16	167	50	13	17	7.6	6.7	5.1	4.4
4	5.3	5.0	19	179	103	34	12	15	6.6	6.7	5.1	4.4
5	5.3	5.0	18	154	69	26	12	14	6.8	6.9	4.9	4.4
6	5.5	5.0	19	73	50	21	12	13	7.6	7.3	4.9	4.5
7	5.3	5.0	30	38	39	64	12	13	7.5	7.3	4.9	4.6
8	4.9	5.0	27	26	32	255	12	13	7.7	7.3	5.0	4.6
9	4.8	5.1	22	21	27	286	12	13	6.7	7.3	4.8	4.6
10	4.8	6.0	16	17	23	723	12	12	6.7	7.3	4.7	4.6
11	4.8	6.0	16	17	21	576	12	12	6.7	7.3	4.9	4.6
12	4.9	5.8	14	16	211	495	12	12	6.3	7.1	5.0	4.6
13	4.8	5.6	14	14	307	491	11	12	6.8	6.7	4.9	4.6
14	4.8	5.5	14	22	914	333	11	12	7.3	6.7	4.8	4.6
15	4.7	5.1	13	74	379	735	12	11	7.3	6.7	4.6	4.6
16	4.6	5.1	13	715	803	867	13	8.5	7.3	6.7	4.7	5.1
17	4.6	5.1	13	327	2350	502	13	8.2	7.1	6.7	4.8	5.3
18	4.6	5.1	12	106	2160	286	12	8.2	6.7	6.6	4.6	5.2
19	4.6	5.1	12	61	1400	188	12	8.2	6.7	6.4	4.6	5.1
20	4.9	5.1	12	42	741	135	12	8.2	6.7	6.1	4.6	5.1
21	7.2	5.1	12	31	480	101	12	8.1	6.7	6.0	4.6	5.1
22	5.8	5.1	12	30	310	82	12	7.4	6.7	6.0	4.6	5.1
23	5.6	5.1	12	50	230	68	13	7.1	6.7	5.0	4.6	5.1
24	5.3	50	12	33	170	59	13	6.9	6.7	5.0	4.6	6.7
25	5.0	22	12	28	130	50	13	6.6	6.7	4.9	4.6	6.5
26	5.0	7.8	12	24	111	44	13	6.7	6.8	5.1	4.6	6.8
27	4.9	7.3	12	21	93	39	13	6.7	7.1	5.1	4.6	7.5
28	4.8	20	12	16	81	33	13	6.9	7.3	5.1	4.6	6.7
29	4.8	70	13	170	---	27	14	7.2	7.3	5.1	4.6	5.8
30	4.9	22	35	134	---	23	14	7.1	7.3	5.0	4.6	5.6
31	5.1	---	25	207	---	21	---	7.3	---	5.1	4.6	---
TOTAL	158.3	319.2	696	2700	11783	6742	379	317.3	210.6	195.1	148.0	154.8
MEAN	5.11	10.6	22.5	87.1	421	217	12.6	10.2	7.02	6.29	4.77	5.16
MAX	7.2	70	181	715	2350	867	17	17	7.7	7.3	5.4	7.5
MIN	4.6	5.0	12	14	21	21	11	6.6	6.3	4.9	4.6	4.4
AC-FT	314	633	1380	5360	23370	13370	752	629	418	387	294	307

CAL YR 1985 TOTAL 6026.9 MEAN 16.5 MAX 789 MIN 4.1 AC-FT 11950
WTR YR 1986 TOTAL 23803.3 MEAN 65.2 MAX 2350 MIN 4.4 AC-FT 47210

LAGUNITAS CREEK BASIN

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 38°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, Hydrologic Unit 18050005, on right bank at upstream side of road bridge, 300 ft downstream from small right-bank tributary, 1.4 mi north-east of town of Point Reyes Station, and 2.5 mi downstream from Nicasio Dam.

DRAINAGE AREA.--81.7 mi².

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CA-79-2: 1975, 1978. WDR CA-82-2: 1975(m), 1978(m), 1980(m).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 2, 30. Records good. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft; Kent Lake, capacity, 16,680 acre-ft; and Alpine Lake, capacity, 8,890 acre-ft, all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--12 years, 98.1 ft³/s, 71,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft³/s, Jan. 4, 1982, gage height, 26.96 ft, from rating curve extended above 6,200 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.01 ft³/s, Sep. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,480 ft³/s, Feb. 17, gage height, 20.90 ft; minimum daily, 4.4 ft³/s, Aug 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	5.9	22	26	234	144	44	16	8.5	6.3	4.5	4.9
2	5.7	5.9	219	23	366	123	38	18	8.7	6.3	4.5	4.9
3	5.6	5.9	85	21	291	105	34	25	8.4	6.3	4.5	4.9
4	5.6	5.9	38	196	199	83	31	22	7.8	6.1	4.5	4.8
5	5.6	5.9	30	248	136	68	28	20	6.8	6.2	4.4	4.7
6	5.8	5.9	26	131	100	57	28	17	7.8	6.3	4.5	4.8
7	5.9	5.9	45	72	78	140	37	17	7.6	6.0	4.6	4.9
8	5.3	5.9	40	48	61	596	37	16	7.6	6.1	4.7	4.9
9	4.9	5.9	32	34	49	512	31	15	7.5	6.1	4.7	4.9
10	5.0	7.0	22	26	41	1840	28	15	7.2	6.1	4.8	5.0
11	5.1	7.3	20	24	34	1200	25	14	7.0	6.1	4.8	4.9
12	5.1	7.1	18	22	229	1020	23	13	7.2	5.9	4.5	4.7
13	5.2	6.5	17	20	593	1070	21	13	6.9	5.9	4.6	4.9
14	5.3	6.5	17	24	4320	701	20	13	7.4	5.9	4.5	5.5
15	5.3	6.5	17	61	2060	1730	26	13	7.4	5.7	4.5	5.3
16	5.3	6.5	16	1150	2790	2000	35	10	7.3	5.8	4.7	5.8
17	5.3	6.5	16	598	7370	1020	35	10	7.3	5.8	4.7	6.0
18	5.4	6.5	15	201	5450	607	26	9.9	7.1	6.0	4.7	5.9
19	5.3	6.5	15	120	3870	399	23	9.9	7.1	5.7	4.6	5.7
20	5.5	6.5	15	83	1770	289	20	9.9	7.0	5.8	4.7	5.6
21	8.9	6.5	14	61	1040	224	18	9.8	7.1	5.5	4.6	5.6
22	7.7	6.5	14	50	657	184	18	9.2	7.0	5.4	4.6	5.4
23	7.2	6.5	14	87	463	155	19	8.5	6.7	5.3	4.9	5.4
24	6.8	51	14	59	346	133	18	8.3	6.6	4.8	4.9	6.7
25	6.5	44	14	48	277	114	17	8.1	6.5	4.9	4.8	5.8
26	6.3	14	14	40	231	99	17	8.1	6.7	5.2	4.9	5.8
27	5.8	9.9	13	33	194	89	16	7.9	7.0	5.3	4.9	6.3
28	5.8	23	13	29	168	76	16	7.9	6.7	5.1	4.9	5.9
29	5.8	95	13	163	---	65	17	7.9	6.7	4.7	5.2	5.8
30	5.9	40	21	250	---	57	16	7.5	6.5	4.7	5.3	5.7
31	5.9	---	37	310	---	52	---	8.2	---	4.8	4.9	---
TOTAL	180.6	422.9	906	4258	33417	14952	762	388.1	217.1	176.1	145.9	161.4
MEAN	5.83	14.1	29.2	137	1193	482	25.4	12.5	7.24	5.68	4.71	5.38
MAX	8.9	95	219	1150	7370	2000	44	25	8.7	6.3	5.3	6.7
MIN	4.9	5.9	13	20	34	52	16	7.5	6.5	4.7	4.4	4.7
AC-FT	358	839	1800	8450	66280	29660	1510	770	431	349	289	320

CAL YR 1985 TOTAL 12901.1 MEAN 35.3 MAX 2810 MIN 4.1 AC-FT 25590
WTR YR 1986 TOTAL 55987.1 MEAN 153 MAX 7370 MIN 4.4 AC-FT 111100

WALKER CREEK BASIN

11460750 WALKER CREEK NEAR MARSHALL, CA

LOCATION.--Lat 38°10'33", long 122°49'02", in SoulaJule (Vasquez) Grant, Marin County, Hydrologic Unit 18050005, on right bank 0.8 mi downstream from Verde Canyon, 2.8 mi below confluence of Arroyo Sausal and Salmon Creek, and 4.0 mi east of Marshall.

DRAINAGE AREA.--31.1 mi².

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 27 to Apr. 4. Records good. Flow affected by regulation and diversions and by SoulaJule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre-ft.

EXTREMES FOR PERIOD.--Maximum discharge, 7,050 ft³/s, Feb. 17, 1986, gage height, 10.79 ft; minimum daily, 4.4 ft³/s, Oct, 5, 6, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,050 ft³/s, Feb. 17, gage height, 10.79 ft; minimum daily, 4.8 ft³/s, many days during August to September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.4	15	13	200	36	13	8.7	5.7	5.1	5.1	4.8
2	5.1	5.4	74	12	277	31	11	8.8	5.7	5.1	5.1	4.8
3	5.2	5.4	22	12	289	28	10	7.4	5.7	5.1	5.1	4.8
4	5.4	5.4	12	55	189	25	9.4	6.4	5.7	5.1	5.1	4.8
5	5.4	5.4	12	66	122	23	8.9	6.0	5.7	5.1	5.1	4.8
6	5.4	5.4	12	42	88	21	8.7	6.0	5.7	5.1	5.1	4.8
7	5.4	5.4	30	26	66	62	11	5.8	5.7	5.1	5.1	4.8
8	5.4	5.4	23	19	51	163	12	5.7	5.7	5.1	5.1	4.8
9	5.4	5.4	18	15	40	124	11	5.7	5.5	5.1	5.1	4.8
10	5.4	6.1	15	13	33	616	10	5.7	5.5	5.1	5.1	4.8
11	5.4	6.2	13	14	29	383	9.9	5.5	5.5	5.1	5.1	4.9
12	5.4	5.8	12	14	120	267	9.5	5.5	5.5	5.1	5.1	5.0
13	5.4	5.8	12	13	263	417	9.3	5.5	5.3	5.1	5.1	5.0
14	5.4	5.8	12	16	2640	226	9.0	5.5	5.3	5.1	5.0	5.0
15	5.4	5.8	11	61	796	546	9.4	5.5	5.3	5.1	4.8	5.1
16	5.4	5.8	11	445	1640	509	9.9	5.5	5.3	5.1	4.8	6.1
17	5.4	5.8	11	208	4940	235	9.6	5.5	5.3	5.1	4.8	5.5
18	5.4	5.8	11	87	2170	134	9.0	5.7	5.3	5.1	4.8	5.5
19	5.4	5.8	11	56	1450	95	8.7	5.7	5.3	5.1	4.8	5.5
20	6.1	5.8	10	42	378	71	8.7	5.7	5.3	5.1	4.8	5.5
21	7.7	5.8	10	34	182	55	8.4	5.7	5.3	5.1	4.8	5.3
22	5.8	5.8	9.8	32	120	46	8.2	5.7	5.3	5.1	4.8	5.3
23	5.8	5.8	9.7	40	92	39	8.1	5.7	5.3	5.1	4.8	5.3
24	5.8	17	9.7	30	75	34	8.1	5.7	5.1	5.1	4.8	6.0
25	5.8	7.9	9.7	22	64	29	8.3	5.7	5.1	5.1	4.8	5.7
26	5.8	6.6	9.7	18	57	25	8.7	5.7	5.1	5.1	4.8	5.6
27	5.8	6.6	9.7	16	48	22	8.7	5.7	5.1	5.1	4.8	5.6
28	5.8	17	9.7	15	41	20	8.7	5.7	5.1	5.1	4.8	5.3
29	5.8	25	12	87	---	17	8.7	5.7	5.1	5.1	4.8	5.3
30	5.8	10	20	141	---	15	8.7	5.7	5.1	5.1	4.8	5.3
31	5.6	---	14	242	---	14	---	5.7	---	5.1	4.8	---
TOTAL	173.4	220.6	471.0	1906	16460	4328	282.6	184.5	161.6	158.1	152.9	155.8
MEAN	5.59	7.35	15.2	61.5	588	140	9.42	5.95	5.39	5.10	4.93	5.19
MAX	7.7	25	74	445	4940	616	13	8.8	5.7	5.1	5.1	6.1
MIN	5.1	5.4	9.7	12	29	14	8.1	5.5	5.1	5.1	4.8	4.8
AC-FT	344	438	934	3780	32650	8580	561	366	321	314	303	309
CAL YR 1985	TOTAL	5809.5	MEAN 15.9	MAX 763	MIN 5.1	AC-FT 11520						
WTR YR 1986	TOTAL	24654.5	MEAN 67.5	MAX 4940	MIN 4.8	AC-FT 48900						

RUSSIAN RIVER BASIN

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank 20 ft downstream from bridge on Lake Mendocino Drive, 0.4 mi upstream from East Fork, 0.6 mi downstream from York Creek, and 3.2 mi north of Ukiah.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft above National Geodetic Vertical Datum of 1929. Prior to October 1952, nonrecording gage at bridge 20 ft upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Dec. 2 and May 31 to Sept. 30. Records good except for periods of estimated daily discharges, which are poor. No regulation. Diversions above station for irrigation of about 1,000 acres.

AVERAGE DISCHARGE.--36 years, 184 ft³/s, 133,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s, Dec. 21, 1955, gage height, 19.0 ft, site and datum then in use; flood of Feb. 17, 1986, reached a stage of 19.00 ft, present site and datum; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1645	5,760	13.89	Feb. 17	1045	*12,300	*19.00

Minimum daily, 0.20 ft³/s, Oct. 9-11, 15, 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.0	170	18	901	177	85	24	7.5	3.2	2.0	1.2
2	.38	.95	1130	18	1870	150	76	30	6.8	3.2	1.9	1.2
3	.35	.90	501	18	2150	130	72	33	6.6	3.1	1.9	1.2
4	.32	.85	199	43	1020	116	68	30	6.3	3.0	1.9	1.2
5	.30	.80	267	125	617	105	67	28	6.0	3.0	1.9	1.1
6	.28	.80	206	147	437	95	66	33	5.8	2.9	1.9	1.1
7	.26	.80	575	76	344	730	69	33	5.6	2.9	1.8	1.1
8	.24	.75	308	51	284	1950	62	27	5.4	2.8	1.7	1.1
9	.20	.90	186	39	238	1310	58	25	5.3	2.8	1.7	1.1
10	.20	14	126	33	206	2410	55	23	5.1	2.7	1.7	1.1
11	.20	9.5	91	30	186	1920	52	22	4.9	2.7	1.7	1.0
12	.30	6.0	70	27	790	1150	49	21	4.8	2.6	1.6	1.0
13	.30	4.2	56	26	1300	1070	42	20	4.7	2.6	1.6	1.0
14	.30	2.8	45	146	3590	709	43	19	4.5	2.5	1.6	1.0
15	.20	3.5	39	783	4130	1640	45	17	4.4	2.5	1.6	1.0
16	.30	8.9	35	3690	5070	1250	58	17	4.3	2.4	1.6	1.0
17	.20	6.5	31	1880	9410	727	59	15	4.2	2.4	1.6	.95
18	.20	5.4	29	702	3080	513	44	15	4.1	2.3	1.5	1.7
19	.20	4.5	27	458	3280	404	41	15	4.0	2.3	1.5	1.4
20	2.4	3.5	25	342	2080	319	38	14	3.9	2.3	1.5	1.0
21	11	2.9	24	262	1160	270	36	14	3.9	2.3	1.5	.95
22	7.6	2.5	23	250	796	236	34	13	3.8	2.2	1.4	.90
23	3.5	7.0	22	473	594	207	32	13	3.7	2.2	1.4	.85
24	2.1	40	20	346	455	184	30	13	3.7	2.1	1.3	1.4
25	1.7	65	19	265	349	160	30	13	3.6	2.1	1.3	1.2
26	1.5	37	18	220	285	143	26	13	3.5	2.1	1.3	1.3
27	1.4	23	17	187	239	130	28	12	3.4	2.1	1.3	1.1
28	1.3	330	17	163	204	120	26	11	3.4	2.0	1.3	1.0
29	1.2	400	18	585	---	108	25	11	3.3	2.0	1.3	.95
30	1.1	220	21	797	---	100	23	11	3.3	2.0	1.2	.90
31	1.0	---	19	1380	---	93	---	8.0	---	2.0	1.2	---
TOTAL	40.93	1203.95	4334	13580	45065	18626	1439	593.0	139.8	77.3	48.7	33.00
MEAN	1.32	40.1	140	438	1609	601	48.0	19.1	4.66	2.49	1.57	1.10
MAX	11	400	1130	3690	9410	2410	85	33	7.5	3.2	2.0	1.7
MIN	.20	.75	17	18	186	93	23	8.0	3.3	2.0	1.2	.85
AC-FT	81	2390	8600	26940	89390	36940	2850	1180	277	153	97	65

CAL YR 1985 TOTAL 22971.42 MEAN 62.9 MAX 3060 MIN .04 AC-FT 45560
WTR YR 1986 TOTAL 85180.68 MEAN 233 MAX 9410 MIN .20 AC-FT 169000

RUSSIAN RIVER BASIN

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW 1/4 NW 1/4 sec.18, T.16 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.1 mi downstream from Cold Creek, and 3.9 mi east of Calpella.

DRAINAGE AREA.--92.2 mi².

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Elevation of gage is 787.87 ft above National Geodetic Vertical Datum of 1929. Prior to May 28, 1957, at site 1.3 mi downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 17 to Feb. 12. Records good. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres above station.

AVERAGE DISCHARGE.--45 years, 343 ft³/s, 248,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s, Dec. 22, 1964, gage height, 20.21 ft, site then in use; maximum gage height, 20.82 ft, Feb. 17, 1986; minimum daily, 2.0 ft³/s, July 13, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1715	5,370	14.85	Feb. 17	1130	*11,200	*20.82

Minimum daily, 22 ft³/s, Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	334	199	166	995	544	398	97	99	84	88	93
2	304	328	1290	166	1820	526	371	97	101	81	94	90
3	302	332	603	164	2110	512	364	101	96	80	93	89
4	308	331	319	184	950	503	377	102	98	81	91	96
5	312	331	521	234	770	494	377	110	98	83	89	99
6	315	332	416	228	580	488	378	105	108	81	92	91
7	319	333	644	189	500	835	380	113	98	83	92	93
8	317	314	460	181	445	1640	380	118	92	87	91	93
9	317	119	395	176	410	1250	375	120	90	83	95	105
10	307	133	364	167	428	2220	375	115	90	82	94	113
11	301	114	352	168	364	1760	368	110	92	88	92	114
12	308	109	344	168	795	1210	210	106	91	89	89	110
13	310	142	339	168	1140	1120	184	87	91	88	89	106
14	310	154	338	284	3740	808	199	94	84	84	89	108
15	296	155	338	1000	3570	1610	152	92	85	80	86	112
16	271	157	328	3570	5180	1060	155	108	85	80	91	124
17	317	154	318	1830	8890	778	160	103	83	79	90	156
18	310	149	310	790	2470	665	144	102	86	92	96	149
19	336	114	311	600	2820	610	147	101	90	83	53	154
20	341	108	213	510	1680	566	143	101	89	77	22	97
21	333	74	68	465	1130	533	143	99	85	83	61	91
22	340	68	65	457	1030	512	146	99	88	82	87	99
23	332	72	287	755	831	487	141	101	87	90	87	303
24	341	196	315	560	727	472	125	101	83	87	87	305
25	332	198	324	475	665	450	129	101	80	88	86	305
26	335	94	322	420	622	444	108	101	87	82	87	319
27	340	79	297	380	588	435	122	104	85	87	88	318
28	332	607	167	485	561	421	119	111	84	86	92	307
29	328	822	171	670	---	413	110	102	82	85	90	291
30	332	235	175	965	---	409	101	99	85	86	88	273
31	334	---	166	1300	---	407	---	95	---	86	88	---
TOTAL	9887	6688	10759	17875	45811	24182	6881	3195	2692	2607	2657	4803
MEAN	319	223	347	577	1636	780	229	103	89.7	84.1	85.7	160
MAX	341	822	1290	3570	8890	2220	398	120	108	92	96	319
MIN	271	68	65	164	364	407	101	87	80	77	22	89
AC-FT	19610	13270	21340	35460	90870	47960	13650	6340	5340	5170	5270	9530

CAL YR 1985 TOTAL 93842 MEAN 257 MAX 2730 MIN 33 AC-FT 186100
WTR YR 1986 TOTAL 138037 MEAN 378 MAX 8890 MIN 22 AC-FT 273800

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, in intake tower 30 ft upstream from Coyote Dam on East Fork Russian River, and 3.6 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam, storage began in November 1958. Capacity based on 1975 resurvey, new capacity table put into use July 1, 1977, 122,100 acre-ft between elevations 637.0 ft, invert of outlet tunnel and 764.8 ft, spillway crest, NGVD. Storage affected by diversions from Eel River through Potter Valley powerhouse (station 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records, including current year extremes, represent contents at 2400 hours.

COOPERATION.--Records were provided by U.S. Army Corps of Engineers, not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft, Jan. 24, 1970, elevation, 760.86 ft; minimum, 12,070 acre-ft Nov. 4, 1977, elevation, 687.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 114,202 acre-ft Feb. 17, elevation, 760.50 ft; minimum, 41,032 acre-ft, Sept. 22, elevation, 717.69 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

637	0	665	2,810	690	13,800	730	59,500
645	152	670	4,290	695	17,300	740	76,400
650	432	675	6,110	700	21,200	750	94,400
655	914	680	8,280	710	31,183	760	113,000
660	1,700	685	10,800	720	44,300	764.8	122,100

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59784	68491	71823	72659	76270	73793	85246	87975	83518	73846	60671	47874
2	60030	68800	73793	72571	77330	73793	85751	87866	83339	73391	60260	47504
3	60260	69109	73077	72606	79370	73811	86238	87704	83141	72868	59866	47122
4	60490	69419	72223	72763	78109	73601	86763	87541	82926	72345	59408	46755
5	60720	69746	72414	73007	75214	73304	87324	87414	82747	71858	59066	46405
6	60918	70091	72728	72798	72693	72763	87903	87305	82549	71302	58643	46012
7	61116	70419	73409	72449	72223	73304	88392	87197	82370	70939	58237	45621
8	61380	70644	73706	72223	72902	74722	88937	87088	82191	70541	57865	45246
9	61595	70575	73234	72188	73479	74459	89463	86979	82048	70125	57494	44902
10	61810	70489	72920	72223	73461	79175	89790	86853	81815	69729	57091	44573
11	62010	70385	73025	72292	72902	80332	89718	86726	81564	69436	56690	44331
12	62258	70177	73112	72327	73671	78269	89500	86600	81368	69127	56290	43821
13	62491	70091	73234	72362	74564	75407	89518	86419	81117	68714	55875	43510
14	62741	70108	73339	72833	81976	72693	89463	86220	80832	68337	55462	43145
15	62958	70091	73409	74354	89663	73339	89372	86058	80564	67858	54987	42865
16	63125	70109	73234	80154	100200	72972	89318	85932	80296	67380	54560	42601
17	63375	70057	72763	80564	114202	72990	89245	85787	79940	66919	54151	42434
18	63576	70022	72310	78305	111846	73846	89227	85643	79584	66511	53743	42240
19	63962	69936	72153	75672	110193	74740	89209	85499	79193	66104	53259	42019
20	64466	69798	72136	73899	106061	75601	89173	85318	78784	65697	52699	41675
21	64701	69574	71580	72815	100108	76394	89082	85138	78376	65275	52265	41318
22	65156	69436	71233	72484	93291	77437	89046	84976	77968	64768	51848	41032
23	65443	69333	71528	72815	85751	78429	88973	84849	77490	64331	51449	41182
24	65833	69522	71892	72850	79459	79406	88864	84688	77065	63911	51035	41400
25	66189	69660	72241	72798	75795	80332	88791	84525	76518	63492	50638	41633
26	66460	69591	72571	72659	74284	81064	88665	84417	76112	63024	50228	41908
27	66885	69540	72868	72519	73881	81833	88592	84273	75601	62591	49804	42143
28	67294	70627	72902	72345	73723	82585	88483	84220	75197	62175	49427	42351
29	67516	71580	72972	73496	---	83285	88320	84022	74705	61827	49021	42573
30	67841	71597	73042	74599	---	83986	88157	83860	74249	61430	48632	42740
31	68149	---	72902	76800	---	84795	---	83680	---	61066	48245	---
MAX	68149	71597	73793	80564	114202	84795	89790	87975	83518	73846	60671	47874
MIN	59784	68491	71233	72188	72223	72693	85246	83860	74249	61066	48245	41032
a	735.11	737.11	737.86	740.08	738.33	744.56	746.42	743.94	738.63	730.90	722.75	718.93
b	+8594	+3448	+1305	+3898	-3077	+11072	+3362	-4477	-9431	-13183	-12821	-5505

CAL YR 1985 b +522

WTR YR 1986 b -16815

a Elevation, in feet NGVD, at end of month.

RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft above National Geodetic Vertical Datum of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow affected by diversion from Eel River through Potter Valley powerhouse (station 11471000) and since November 1958 by storage in Lake Mendocino (station 11461800) 500 ft upstream. Diversions above station for irrigation of about 8,000 acres.

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft³/s, 257,900 acre-ft/yr; 27 years (water years 1960-86), 361 ft³/s, 261,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Prior to regulation by Lake Mendocino, maximum discharge, 13,300 ft³/s, Dec. 21, 1955, gage height, 16.86 ft site and datum then in use, from rating curve extended above 1,700 ft³/s on basis of maximum flow at station upstream which was defined to 8,600 ft³/s; no flow Aug. 13-15, 1913. 1959 to current year: Maximum discharge, 7,350 ft³/s, Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft³/s, Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,700 ft³/s, Feb. 18, gage height, 10.12 ft; minimum daily, 36 ft³/s, Mar. 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	143	144	306	1360	497	97	166	173	260	253	267
2	182	153	335	205	1350	497	111	168	160	253	263	267
3	184	153	992	157	940	497	118	177	154	263	263	267
4	187	153	827	157	1720	588	118	177	161	276	263	267
5	190	153	437	157	2290	613	128	177	164	275	263	267
6	190	142	308	383	1990	756	128	167	164	278	263	267
7	188	148	309	371	817	755	121	152	164	263	263	267
8	180	148	307	299	143	1120	121	148	164	236	263	267
9	187	148	667	206	143	1720	121	154	168	268	247	267
10	187	148	550	156	488	198	254	163	169	261	262	267
11	187	148	294	156	771	1500	389	163	169	250	259	267
12	186	148	291	156	756	2580	303	158	171	250	261	266
13	186	148	287	156	963	2850	213	151	171	250	261	264
14	186	148	303	157	293	2440	191	150	171	251	259	263
15	187	148	303	259	43	1710	187	153	171	268	259	263
16	186	148	445	500	46	1550	187	173	195	278	263	260
17	186	148	586	1500	2590	943	187	173	225	272	263	251
18	182	148	585	1980	4590	320	169	173	225	276	263	267
19	180	148	400	1960	4330	210	163	173	240	276	267	267
20	181	148	243	1330	4260	210	163	173	261	276	267	267
21	160	147	303	1000	4600	146	154	166	263	276	267	265
22	144	146	215	670	4860	38	152	147	259	272	267	263
23	144	143	163	500	5100	37	153	154	262	271	267	249
24	127	142	163	501	4180	36	153	174	261	271	267	222
25	138	140	163	498	2620	36	154	173	261	271	267	223
26	146	138	163	499	1450	36	160	173	260	271	267	194
27	146	137	163	499	810	59	160	173	261	271	251	195
28	146	139	163	498	639	78	157	169	260	257	262	196
29	146	351	163	305	---	78	167	165	259	246	267	199
30	146	263	147	332	---	78	166	167	258	243	267	186
31	146	---	249	705	---	94	---	173	---	242	267	---
TOTAL	5295	4715	10668	16558	54142	22270	5045	5123	6244	8171	8141	7497
MEAN	171	157	344	534	1934	718	168	165	208	264	263	250
MAX	190	351	992	1980	5100	2850	389	177	263	278	267	267
MIN	127	137	144	156	43	36	97	147	154	236	247	186
AC-FT	10500	9350	21160	32840	107400	44170	10010	10160	12380	16210	16150	14870
CAL YR 1985	TOTAL	92910	MEAN 255	MAX 2000	MIN 20	AC-FT 184300						
WTR YR 1986	TOTAL	153869	MEAN 422	MAX 5100	MIN 36	AC-FT 305200						

WATER-QUALITY RECORDS

CHEMICAL DATA: Water years 1953-55, 1973-82.

BIOLOGICAL DATA: Water year 1977-78.

WATER TEMPERATURE: Water years 1953-55, 1965-68, 1973 to current year.

SEDIMENT DATA: Water years 1953-55, 1964-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: December 1952 to March 1955, October 1964 to September 1968, October 1972 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1952 to March 1955, January 1964 to September 1968.

INSTRUMENTATION.--Water temperature recorder since October 1972. Digital recorder set for 1-hour interval punches.

REMARKS.--Records represent water temperature at sensor within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 23.5°C on several days in 1977; minimum recorded, 7.0°C, Jan. 14, 1973, and on many days in 1984.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded (more than 20 percent missing record), 21.5°C, Sept. 12-14, 16; minimum recorded, 8.0°C on Dec. 24, 25 and Jan. 3-5.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

RUSSIAN RIVER BASIN

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, Hydrologic Unit 18010110, on right bank at abandoned highway bridge, 0.2 mi downstream from McNab Creek, 4 mi north of Hopland, and 15.2 mi downstream from Coyote Dam.

DRAINAGE AREA.--362 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 497.61 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 23-30. Records good. Diversions for irrigation of about 11,800 acres above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 15.2 mi upstream.

AVERAGE DISCHARGE.--47 years, 740 ft³/s, 536,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s, Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft³/s, Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.0 ft from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,900 ft³/s, Feb. 17, gage height, 22.96 ft; minimum daily, 149 ft³/s, Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	156	368	345	3300	1190	366	245	175	259	226	240
2	178	160	2570	309	5010	1080	350	262	179	256	234	243
3	177	163	2030	224	5140	1010	351	261	181	263	235	245
4	175	166	1420	253	3770	1020	339	250	186	285	239	246
5	174	167	1080	338	3400	959	339	254	196	288	243	245
6	175	164	742	562	2730	1050	330	264	189	289	243	239
7	180	158	1390	587	1790	1640	338	247	183	284	234	234
8	176	163	1040	445	783	4010	323	245	187	241	224	237
9	174	165	1020	374	629	3920	315	241	192	225	228	239
10	176	174	952	273	706	4800	324	234	190	251	236	239
11	181	175	557	258	1030	4890	492	227	183	230	238	241
12	181	174	500	247	1510	4720	482	225	177	225	235	238
13	181	172	463	240	3740	4450	342	218	183	223	245	241
14	181	169	443	331	9800	3620	336	215	180	228	244	247
15	181	168	430	1360	11300	4460	330	218	175	230	252	244
16	181	170	451	6620	11200	4040	349	213	193	239	251	239
17	181	170	656	5420	28500	2680	358	213	242	238	248	251
18	180	170	658	3200	14800	1650	320	201	242	240	246	252
19	178	170	592	2580	11500	1240	291	202	240	246	246	256
20	186	170	353	1910	9000	1030	283	203	270	246	244	251
21	225	168	380	1330	7110	887	278	205	272	247	243	251
22	169	161	341	1070	6220	697	272	198	275	244	245	248
23	175	161	252	1160	5700	620	269	194	274	242	242	223
24	158	242	241	975	4940	561	265	192	263	245	237	233
25	149	367	233	835	3570	507	263	190	252	246	238	204
26	159	220	229	758	2470	463	251	190	256	246	235	208
27	160	190	225	706	1730	437	249	195	257	246	233	210
28	160	997	223	659	1430	431	249	200	257	245	232	207
29	160	1760	224	1120	---	406	251	194	259	229	237	201
30	160	799	229	1840	---	386	247	190	263	225	228	194
31	160	---	264	3370	---	376	---	184	---	222	233	---
TOTAL	5405	8409	20556	39699	162808	59230	9552	6770	6571	7623	7394	7046
MEAN	174	280	663	1281	5815	1911	318	218	219	246	239	235
MAX	225	1760	2570	6620	28500	4890	492	264	275	289	252	256
MIN	149	156	223	224	629	376	247	184	175	222	224	194
AC-FT	10720	16680	40770	78740	322900	117500	18950	13430	13030	15120	14670	13980
CAL YR 1985	TOTAL	139035	MEAN	381	MAX	7520	MIN	112	AC-FT	275800		
WTR YR 1986	TOTAL	341063	MEAN	934	MAX	28500	MIN	149	AC-FT	676500		

RUSSIAN RIVER BASIN

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", Long 123°03'09", in NW 1/4 NW 1/4 sec.23, T.12 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.3 mi downstream from Cummins Creek, 5.5 mi northwest of Cloverdale, and 28 mi downstream from Coyote Dam.

DRAINAGE AREA.--503 mi².

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Diversions for irrigation of about 15,300 acres above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800).

AVERAGE DISCHARGE.--35 years, 1,020 ft³/s, 739,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s, Dec. 22, 1964, gage height, 31.60 ft, site and datum then in use; minimum daily, 12 ft³/s, Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,700 ft³/s, Feb. 17, gage height, 23.63 ft; minimum daily, 156 ft³/s, June 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	172	658	381	5160	1680	667	285	174	265	223	230
2	183	166	4320	381	7700	1510	614	321	170	257	231	238
3	179	169	2570	259	7100	1390	610	331	165	264	239	242
4	176	176	1730	391	5130	1370	586	303	168	290	239	235
5	180	179	1440	551	4320	1250	579	302	190	307	235	232
6	185	177	1030	657	3510	1360	570	316	189	310	244	232
7	194	169	1530	746	2620	2320	578	281	188	319	241	225
8	184	176	1300	568	1340	6910	562	281	188	269	239	234
9	175	177	1120	505	1100	6220	535	276	194	230	224	235
10	180	196	1150	371	1000	8480	517	265	193	265	240	238
11	188	198	725	335	1330	8060	724	255	176	240	250	242
12	188	194	626	313	2070	8270	751	256	168	225	244	239
13	192	184	570	300	5180	7470	526	249	170	216	254	243
14	197	182	531	408	16500	5990	528	237	163	213	259	250
15	199	179	512	1810	20300	7650	476	236	156	213	265	251
16	192	192	493	8900	16600	7130	516	232	178	226	271	246
17	192	182	693	8120	35900	4870	573	233	223	218	267	253
18	190	189	705	4050	23300	3170	494	224	238	219	275	257
19	187	185	695	3150	16900	2430	444	219	240	224	284	259
20	197	178	444	2560	12900	2010	424	220	278	232	284	258
21	270	175	411	1820	9300	1740	411	216	282	244	262	259
22	207	178	427	1580	8100	1410	394	218	283	255	261	258
23	207	177	317	1660	7330	1230	342	209	304	255	260	239
24	189	396	288	1430	6600	1120	337	216	277	246	251	241
25	160	507	263	1220	4970	1060	319	208	259	246	255	223
26	170	311	250	1110	3570	980	301	212	249	248	258	217
27	169	248	242	1020	2540	900	294	215	250	250	237	225
28	172	921	235	960	2030	840	290	213	254	250	239	219
29	172	2300	235	1910	---	779	291	211	258	236	240	214
30	175	1120	263	3190	---	727	289	205	273	228	227	200
31	172	---	263	5210	---	689	---	190	---	225	219	---
TOTAL	5798	9953	26036	55866	234400	101015	14542	7635	6498	7685	7717	7134
MEAN	187	332	840	1802	8371	3259	485	246	217	248	249	238
MAX	270	2300	4320	8900	35900	8480	751	331	304	319	284	259
MIN	160	166	235	259	1000	689	289	190	156	213	219	200
AC-FT	11500	19740	51640	110800	464900	200400	28840	15140	12890	15240	15310	14150
CAL YR 1985	TOTAL	167422	MEAN	459	MAX	8750	MIN	126	AC-FT	332100		
WTR YR 1986	TOTAL	484279	MEAN	1327	MAX	35900	MIN	156	AC-FT	960600		

RUSSIAN RIVER BASIN

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA

LOCATION.--Lat 38°47'52", long 122°48'05", in NW 1/4 NW 1/4 sec.19, T.11 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on left bank 400 ft downstream from unnamed tributary and 12 mi east of Cloverdale.

DRAINAGE AREA.--13.1 mi².

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 21 to Nov. 10, Dec. 12, 13, March 10-14, May 3-13, Sept. 26-30. Records good except for estimated daily discharges, which are poor. Diversion for industrial use 150 ft above station where flows are above 10 ft³/s.

AVERAGE DISCHARGE.--6 years, 50.8 ft³/s, 36,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft³/s, Feb. 17, 1986, gage height, 8.98 ft from rating curve extended above 1,200 ft³/s on basis of culvert computation of peak flow; minimum daily, 0.08 ft³/s, Aug. 31, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1515	1,380	6.46	Feb. 17	1430	*5,700	*8.98
Feb. 2	0430	1,350	6.43	Mar. 10	0215	1,150	6.23

Minimum daily 1.1 ft³/s, Oct 6, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.2	24	6.5	273	38	18	10	2.6	2.6	1.6	1.3
2	1.4	2.2	408	6.2	566	32	16	21	2.9	2.9	1.7	1.2
3	1.5	2.2	101	6.5	338	28	16	18	3.0	2.1	1.7	1.2
4	1.4	2.1	38	48	217	22	15	12	3.0	2.2	1.7	1.2
5	1.3	2.1	68	106	126	18	15	9.0	2.6	2.2	1.7	1.2
6	1.1	2.0	32	45	83	17	14	7.4	2.7	2.2	1.7	1.2
7	1.3	2.0	39	21	57	195	15	11	2.9	2.4	1.7	1.3
8	1.3	1.9	27	19	42	531	15	1.4	3.1	2.4	1.6	1.3
9	1.2	2.3	16	18	33	331	14	1.5	3.1	2.4	1.5	1.3
10	1.3	6.0	9.6	15	27	700	13	1.5	2.9	2.1	1.5	1.3
11	1.5	9.7	11	15	23	400	13	1.5	3.1	2.0	1.5	1.3
12	1.7	7.0	11	14	219	350	13	2.9	3.0	2.0	1.4	1.3
13	1.7	6.0	12	14	287	240	13	3.1	2.9	1.8	1.3	1.3
14	1.5	5.3	12	30	1980	190	12	2.7	3.1	1.7	1.2	1.3
15	1.5	5.3	13	106	1850	312	16	2.7	3.1	1.7	1.7	1.7
16	1.4	6.4	12	696	1860	291	16	2.7	3.1	1.7	1.7	1.7
17	1.2	6.0	10	273	3920	180	24	2.6	3.1	1.7	1.7	7.2
18	1.3	5.7	10	113	1220	123	24	2.7	3.1	1.7	1.7	4.4
19	1.1	5.6	9.0	71	1110	81	23	2.5	3.1	1.7	1.7	2.0
20	7.0	5.6	8.1	46	604	60	22	2.5	3.3	1.8	1.7	1.7
21	10	5.5	7.7	34	342	47	16	2.6	2.9	1.8	1.3	1.7
22	6.7	5.5	6.9	38	232	39	10	2.6	2.6	1.8	1.3	1.7
23	5.5	10	6.8	47	168	31	11	2.6	2.8	1.8	1.2	1.7
24	4.8	56	6.5	28	129	26	11	2.9	2.4	1.8	1.2	2.6
25	4.0	20	6.4	21	102	22	11	2.8	2.4	1.8	1.2	4.2
26	3.7	8.3	6.0	16	80	18	10	2.7	2.6	1.8	1.3	6.4
27	3.1	5.5	5.2	12	62	14	10	2.9	2.6	1.8	1.2	4.5
28	2.8	36	5.0	12	48	11	10	2.7	2.6	1.8	1.2	3.7
29	2.7	227	8.7	135	---	11	10	2.7	2.6	1.8	1.2	3.1
30	2.5	23	13	149	---	11	10	2.8	2.6	1.8	1.3	2.9
31	2.3	---	7.1	383	---	11	---	2.6	---	1.8	1.3	---
TOTAL	81.2	484.4	950.0	2544.2	15998	4380	436	148.6	85.8	61.1	45.7	68.9
MEAN	2.62	16.1	30.6	82.1	571	141	14.5	4.79	2.86	1.97	1.47	2.30
MAX	10	227	408	696	3920	700	24	21	3.3	2.9	1.7	7.2
MIN	1.1	1.9	5.0	6.2	23	11	10	1.4	2.4	1.7	1.2	1.2
AC-FT	161	961	1880	5050	31730	8690	865	295	170	121	91	137

CAL YR 1985	TOTAL	5180.35	MEAN	14.2	MAX	673	MIN	.65	AC-FT	10280
WTR YR 1986	TOTAL	25283.90	MEAN	69.3	MAX	3920	MIN	1.1	AC-FT	50150

RUSSIAN RIVER BASIN

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on left bank 2 mi east of Healdsburg, and 3.5 mi upstream from Dry Creek.

DRAINAGE AREA.--793 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 77.01 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: May 23-24 and Sept. 10. Records good. Several diversions for irrigation of about 17,800 acres above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 63 mi upstream.

AVERAGE DISCHARGE.--47 years, 1,483 ft³/s, 1,074,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft³/s, Dec. 23, 1964, gage height, 27.00 ft; maximum gage height, 30.0 ft, Feb. 28, 1940; minimum daily discharge, 17 ft³/s, Apr. 25, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71,100 ft³/s, Feb. 17, gage height, 25.81 ft; minimum daily, 160 ft³/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	174	925	365	8760	2730	990	409	241	274	229	233
2	167	172	5510	412	11700	2360	932	423	232	273	229	232
3	164	172	4360	394	11200	2120	872	499	228	270	233	236
4	161	173	2430	422	8610	1930	849	468	225	268	235	241
5	160	175	1950	931	6250	1850	816	439	224	273	236	241
6	163	175	1540	997	5140	1760	806	434	232	268	236	239
7	169	175	1600	852	4180	2700	802	429	234	271	237	237
8	170	171	1770	750	2580	9750	800	398	231	275	235	241
9	169	174	1320	637	1980	8330	745	391	228	263	233	242
10	169	185	1280	559	1670	16000	712	380	226	248	227	235
11	170	205	1070	480	1740	11600	732	365	223	251	232	225
12	172	206	820	446	2970	12100	832	355	218	239	236	226
13	171	202	725	419	8760	10600	776	350	215	234	234	220
14	173	196	663	444	30600	8340	674	338	224	229	236	229
15	172	192	620	1200	44200	10900	666	329	224	224	240	234
16	172	196	588	10200	32900	11100	673	323	219	222	246	244
17	172	197	612	14400	59700	7640	737	317	220	226	249	250
18	168	192	698	6560	51100	5260	668	307	234	224	248	259
19	173	191	700	4560	30200	3990	613	298	246	225	246	266
20	179	190	629	3790	22100	3250	573	292	256	229	246	266
21	224	190	507	2710	14600	2740	546	290	266	231	245	257
22	275	188	493	2310	11400	2340	525	287	272	236	245	257
23	241	186	463	2380	9670	2010	510	282	275	235	247	256
24	243	246	402	2120	8770	1770	495	282	277	238	247	258
25	214	577	377	1790	6970	1570	476	278	273	236	243	259
26	192	482	358	1600	5250	1420	464	258	269	239	243	249
27	185	353	343	1460	3940	1290	444	258	268	245	244	289
28	182	367	334	1350	3170	1200	432	254	259	248	238	256
29	180	2200	334	2780	---	1120	422	251	271	249	237	237
30	179	2090	384	5910	---	1080	417	248	273	245	240	229
31	178	---	368	7590	---	1020	---	245	---	236	238	---
TOTAL	5671	10592	34173	80818	410110	151870	19999	10477	7283	7624	7410	7343
MEAN	183	353	1102	2607	14650	4899	667	338	243	246	239	245
MAX	275	2200	5510	14400	59700	16000	990	499	277	275	249	289
MIN	160	171	334	365	1670	1020	417	245	215	222	227	220
AC-FT	11250	21010	67780	160300	813500	301200	39670	20780	14450	15120	14700	14560

CAL YR 1985	TOTAL	215579	MEAN	591	MAX	12900	MIN	160	AC-FT	427600
WTR YR 1986	TOTAL	753370	MEAN	2064	MAX	59700	MIN	160	AC-FT	1494000

RUSSIAN RIVER BASIN

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL DATA: Water years 1951-66, 1980.

WATER TEMPERATURE: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1965 to current year.

INSTRUMENTATION.--Water temperature recorder since October 1965 provides hourly recordings.

REMARKS.--No record Dec. 12 to Feb. 3, Feb. 7-15 and Aug. 8 to Sept. 2, due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 28.0°C, July 13, 14, 1972, June 21, 1981, and July 13, 1983; minimum recorded, 5.0°C, Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 27.5°C, July 30; minimum recorded, 7.0°C, Dec. 10, 11.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	16.0	16.5	13.0	10.5	10.0			---	---	15.0	12.5
2	21.5	16.5	16.5	13.5	11.0	10.5			---	---	14.5	12.0
3	23.0	18.0	17.0	13.5	12.0	11.0			---	---	15.0	12.5
4	23.0	18.5	16.5	14.5	12.0	11.0			---	---	15.5	13.0
5	22.5	17.5	16.5	13.5	12.5	11.5			---	---	15.5	14.0
6	19.0	18.0	16.0	13.0	12.0	11.0			---	---	15.5	14.0
7	20.0	17.0	16.0	13.0	12.0	11.0			---	---	15.5	14.0
8	18.5	15.5	14.5	12.5	11.0	10.0			---	---	14.0	12.5
9	17.5	13.5	13.0	10.5	10.5	9.0			---	---	12.5	11.0
10	17.5	12.5	12.5	10.5	9.0	7.0			---	---	12.0	10.5
11	18.5	14.5	12.0	10.0	8.5	7.0			---	---	12.0	11.5
12	18.5	14.5	10.5	8.0	---	---			---	---	12.5	10.5
13	18.0	13.5	10.0	7.5	---	---			---	---	12.0	11.0
14	17.5	12.5	10.5	8.0	---	---			---	---	12.0	10.5
15	18.0	13.0	11.0	8.5	---	---			---	---	11.0	10.5
16	18.0	13.5	13.0	10.5	---	---			11.5	11.0	12.0	10.0
17	18.0	14.5	12.5	10.0	---	---			12.0	11.5	12.5	10.5
18	16.5	14.5	11.0	9.0	---	---			12.0	12.0	13.5	11.0
19	16.5	14.5	10.5	8.5	---	---			12.0	11.0	15.5	12.0
20	16.0	14.5	11.0	9.5	---	---			11.5	11.0	15.5	13.0
21	16.0	13.5	11.0	8.0	---	---			11.5	11.0	16.0	12.5
22	15.0	14.0	10.5	8.0	---	---			12.5	11.0	15.5	13.5
23	17.5	14.5	10.5	10.0	---	---			12.5	11.0	16.0	13.5
24	18.5	15.0	11.0	10.0	---	---			13.0	11.5	16.0	14.0
25	18.0	15.0	11.0	10.5	---	---			13.5	12.0	16.0	13.0
26	18.0	15.0	11.5	10.0	---	---			14.0	12.0	17.0	13.5
27	18.0	15.0	12.0	11.0	---	---			15.0	12.5	18.0	14.5
28	17.5	14.5	12.5	11.0	---	---			15.0	12.5	18.0	15.5
29	14.5	13.5	12.0	10.0	---	---			---	---	17.5	16.0
30	16.0	14.0	11.0	9.5	---	---			---	---	17.5	16.0
31	16.0	13.0	---	---	---	---			---	---	18.5	16.0
MONTH	23.0	12.5	17.0	7.5	---	---			---	---	18.5	10.0

RUSSIAN RIVER BASIN

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.0	22.5	15.0	23.5	19.5	26.0	22.5	26.0	19.0	---	---
2	16.5	13.5	16.0	15.0	23.5	19.5	26.0	23.0	25.5	18.0	---	---
3	17.0	13.5	18.0	15.0	24.5	19.0	26.0	23.0	27.0	18.5	24.5	18.0
4	17.5	14.0	18.5	15.5	24.0	20.0	25.5	21.0	26.5	19.0	25.0	18.0
5	16.0	15.0	16.5	14.0	22.5	20.0	24.5	21.5	24.5	18.5	25.0	18.0
6	17.5	14.5	16.0	13.0	22.5	18.5	24.0	20.0	25.0	17.5	24.5	18.0
7	16.0	14.5	18.5	12.5	24.0	19.0	23.5	17.5	24.0	17.5	23.0	17.0
8	16.0	14.0	20.5	14.5	25.0	19.5	24.0	17.5	---	---	24.0	16.5
9	18.0	14.0	21.5	16.0	26.0	20.5	24.5	17.5	---	---	24.5	17.0
10	19.0	15.5	20.0	16.0	25.5	21.5	26.0	17.5	---	---	24.0	17.0
11	18.5	15.5	19.5	14.0	23.5	21.0	26.0	23.0	---	---	23.5	16.0
12	16.5	14.5	21.0	15.0	24.0	19.5	26.0	19.0	---	---	21.5	15.0
13	16.5	12.5	22.0	16.5	23.5	20.0	24.5	18.0	---	---	21.5	14.0
14	17.5	14.5	20.0	16.5	24.0	20.0	24.5	16.5	---	---	20.5	14.5
15	16.5	14.5	20.5	15.0	25.0	20.0	23.5	17.0	---	---	19.5	14.5
16	14.5	13.0	22.5	15.5	24.5	20.5	24.0	17.0	---	---	18.0	13.5
17	16.5	12.0	23.5	17.5	23.5	20.5	24.0	18.0	---	---	21.0	13.5
18	17.5	13.5	23.5	17.5	23.0	19.5	23.0	16.5	---	---	17.5	14.0
19	19.0	15.0	22.5	17.0	23.5	19.5	23.5	16.0	---	---	20.0	14.0
20	20.5	16.0	21.0	17.5	24.0	19.5	25.0	18.0	---	---	21.5	13.5
21	21.5	17.0	20.5	15.5	25.0	20.5	25.0	18.0	---	---	21.5	13.5
22	19.5	17.0	21.0	14.5	26.5	22.0	24.5	17.0	---	---	22.0	13.5
23	18.5	16.0	21.5	15.5	26.5	22.5	22.5	17.0	---	---	20.5	14.5
24	18.0	15.0	23.0	17.0	25.5	22.0	22.5	15.5	---	---	20.5	14.0
25	18.5	15.5	25.0	19.5	24.5	21.5	22.5	16.5	---	---	16.5	13.0
26	18.0	14.0	25.5	20.5	23.5	20.5	23.0	16.0	---	---	15.5	13.5
27	19.5	14.5	25.0	20.5	23.0	19.5	24.5	16.0	---	---	21.0	13.0
28	19.5	15.5	24.5	20.0	24.5	20.5	23.0	16.5	---	---	22.0	13.0
29	18.5	14.0	25.0	20.0	24.5	21.5	25.0	16.5	---	---	22.5	13.5
30	19.0	14.0	23.5	20.0	25.0	21.5	27.5	18.0	---	---	22.5	14.5
31	---	---	23.5	19.5	---	---	26.5	19.0	---	---	---	---
MONTH	21.5	12.0	25.5	12.5	26.5	18.5	27.5	15.5	---	---	25.0	13.0

RUSSIAN RIVER BASIN

11464900 LAKE SONOMA NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'21", long 123°00'36", in SW 1/4 SE 1/4 sec.7, T.10 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, in reservoir control tower 400 ft upstream from Warm Springs Dam and 6.0 mi west of Geyserville.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam; storage began in October 1983. Usable capacity 381,000 acre-ft between elevations 221.00 ft, invert of lowest outlet tunnel and 495.00 ft, spillway crest. Water is released down Dry Creek for domestic use and fisheries. Records, including current year extremes, represent contents at 2400 hrs.

COOPERATION.--Records were provided by U.S. Army Corps of Engineers, not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 264,347 acre-ft, Mar. 11, 1986, elevation, 458.19 ft; minimum after initial reservoir filling, 3,626 acre-ft, Nov. 2, 1984, elevation, 245.28 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents 264,347 acre-ft, Mar. 11, elevation 458.19 ft; minimum, 59,708 acre-ft, Nov. 23, elevation, 345.98 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

221	111	280	14,286	360	75,150	440	217,014
230	1,151	300	24,025	380	101,566	460	269,406
240	2,621	320	37,003	400	133,654	480	329,768
260	7,265	340	53,833	420	171,956	495	380,681

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64478	61890	62843	70930	105494	256538	245807	245490	240870	234614	226211	218745
2	64414	61807	66919	70908	111749	254963	246019	245517	240740	234332	225986	218696
3	64339	61734	68035	70828	116258	253664	246230	245411	240688	234076	225761	218427
4	64264	61495	68469	71239	118639	251993	246283	245358	240505	233923	225561	218183
5	64190	61226	69017	71687	120200	250276	246336	245067	240245	233770	225387	218037
6	64115	60885	69489	71895	121397	248594	246363	245015	240115	233412	225137	217744
7	64030	60751	70111	72045	122189	248541	246495	244988	240062	233258	224888	217574
8	63944	60689	70475	72160	122834	251537	246601	244962	239984	232621	224639	217525
9	63849	60638	70691	72230	123333	253205	246654	244909	239647	232341	224391	217257
10	63753	60628	70862	72276	123765	260010	246628	244883	239413	232137	224142	217111
11	63668	60587	70999	72334	124182	264347	246628	244778	239179	232061	223869	216650
12	63583	60525	71090	72369	127027	263958	246628	244566	238997	231578	223596	216479
13	63487	60320	71136	72380	130761	263237	246628	244356	238712	231426	223298	216237
14	63424	60248	71171	72659	149956	260422	246548	244145	238556	231299	223076	215970
15	63350	60146	71182	73803	165712	259708	246601	243935	238375	230918	222852	215777
16	63360	60115	71194	82562	182738	258011	246654	243724	238116	230766	222679	215583
17	63233	60075	71217	86553	218525	255261	246654	243514	238013	230589	222482	215535
18	63128	59993	71228	88027	232570	251993	246628	243304	237961	230361	222259	215244
19	63054	59942	71205	88956	243383	248727	246601	243094	237805	230033	222061	215003
20	62706	59871	71182	89584	250330	246707	246575	242884	237702	229780	221815	214882
21	62612	59799	71171	90053	253988	245992	246442	242674	237418	229628	221568	214737
22	62486	59718	71136	90700	256456	245886	246416	242464	237211	229325	221321	214472
23	62444	59708	71113	91228	258229	245648	246283	242281	236850	229098	221051	214327
24	62350	60371	71079	91608	259461	244778	246151	242151	236129	228746	220780	214351
25	62308	60504	71045	91921	259900	244487	246098	242046	236026	228368	220510	214254
26	62255	60504	70999	92194	259790	244619	246019	241862	235974	227991	220239	213990
27	62182	60474	70953	92522	259187	244804	245992	241705	235178	227613	219994	213773
28	61994	60957	70908	92741	258011	245067	245939	241523	235024	227438	219724	213436
29	61932	62036	70942	94840	---	245226	245781	241314	234896	227262	219479	213292
30	61942	62161	70930	97283	---	245384	245595	241183	234793	227087	219234	213124
31	61911	---	70953	102369	---	245569	---	241052	---	226862	218989	---
MAX	64478	62161	71228	102369	259900	264347	246654	245517	240870	234614	226211	218745
MIN	61911	59708	62843	70828	105494	244487	245595	241052	234793	226862	218989	213124
a	348.12	348.36	356.40	380.55	455.89	451.26	451.27	449.54	447.12	443.99	440.81	438.39
b	-2621	+250	+8792	+31416	+155642	-12442	+26	-4543	-6259	-7931	-7873	-5865

CAL YR 1985 b +26692

WTR YR 1986 b +148592

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

RUSSIAN RIVER BASIN

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'11", long 122°59'58", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Warm Springs Dam, 500 ft upstream from county road bridge, and 5.0 mi west of Geyserville.

DRAINAGE AREA.--131 mi².

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.21 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.--Estimated daily discharges: June 10. Records good. Flow affected by storage in Lake Sonoma since October 1983.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft³/s, Feb. 28, 1940, gage height, 16.9 ft, datum then in use; no flow, Oct. 1 to Dec. 8, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,580 ft³/s, Mar. 15, gage height, 8.60 ft; minimum daily, 34 ft³/s, Nov. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	38	59	48	50	957	99	101	93	113	117	108
2	36	38	60	48	54	957	99	102	92	113	117	110
3	36	38	52	49	51	961	99	102	92	113	117	111
4	37	102	52	50	48	964	99	102	93	113	117	106
5	38	147	52	49	48	965	100	102	94	113	117	101
6	38	147	52	49	48	966	99	87	103	113	118	100
7	38	99	52	49	48	968	100	80	105	112	117	100
8	38	38	52	49	48	1150	99	81	101	112	118	101
9	39	38	52	49	48	1430	99	81	101	112	117	97
10	39	38	50	49	48	104	100	81	61	112	117	99
11	40	39	49	49	48	500	100	81	107	112	117	99
12	40	39	49	49	56	1980	100	81	103	178	113	101
13	40	39	49	49	53	2250	99	81	108	153	110	101
14	40	37	48	50	68	2540	99	82	112	168	110	102
15	40	34	48	53	61	2540	100	82	112	113	109	102
16	40	34	48	49	61	2530	100	82	112	111	110	102
17	40	35	48	44	70	2520	100	82	107	112	110	102
18	40	39	48	48	59	2510	100	83	111	120	109	102
19	109	40	48	48	59	2210	100	83	115	126	110	101
20	140	40	48	48	52	1470	99	82	111	126	104	101
21	144	40	48	48	48	800	99	81	111	123	110	101
22	99	40	48	49	48	467	99	80	113	120	112	97
23	38	40	48	49	48	467	99	89	113	121	111	92
24	37	43	48	49	117	479	100	96	113	121	111	92
25	37	39	48	49	415	319	101	95	113	121	113	93
26	37	39	48	50	583	202	101	94	113	121	111	92
27	37	39	48	49	793	155	101	92	114	121	111	93
28	37	41	48	49	957	99	101	92	113	116	111	93
29	38	48	48	54	---	99	101	92	113	110	111	93
30	38	56	48	52	---	98	101	92	113	110	108	93
31	38	---	48	54	---	98	---	92	---	112	108	---
TOTAL	1525	1524	1544	1528	4087	33755	2993	2733	3162	3741	3491	2985
MEAN	49.2	50.8	49.8	49.3	146	1089	99.8	88.2	105	121	113	99.5
MAX	144	147	60	54	957	2540	101	102	115	178	118	111
MIN	36	34	48	44	48	98	99	80	61	110	104	92
AC-FT	3020	3020	3060	3030	8110	66950	5940	5420	6270	7420	6920	5920
CAL YR 1985	TOTAL	15993	MEAN	43.8	MAX	153	MIN	20	AC-FT	31720		
WTR YR 1986	TOTAL	63068	MEAN	173	MAX	2540	MIN	34	AC-FT	125100		

RUSSIAN RIVER BASIN

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: November 1981 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1981 to current year.

INSTRUMENTATION.--Temperature recorder.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 27.0°C, July 11, August 5, 6, 8, 12, 15, 16, 1983; minimum recorded, 6.5°C, Jan. 20, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 17.5°C, July 14; minimum recorded, 9.5°C, on several days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	11.0	10.5	10.5	10.5	10.0	9.5	10.5	10.5	12.5	12.0
2	11.0	10.5	11.0	10.5	11.0	10.5	9.5	9.5	11.0	10.5	12.5	12.0
3	11.5	10.5	11.0	10.5	11.0	10.5	9.5	9.5	11.0	10.5	12.5	12.0
4	11.0	10.5	10.5	10.5	10.5	10.5	9.5	9.5	11.0	10.5	12.0	12.0
5	11.0	10.5	10.5	10.5	11.0	10.5	10.0	9.5	11.0	11.0	12.0	12.0
6	10.5	10.5	10.5	10.5	10.5	10.5	10.0	9.5	11.0	10.5	12.0	12.0
7	11.0	10.5	10.5	10.5	11.0	10.5	9.5	9.5	11.0	10.5	12.0	11.5
8	11.0	10.5	10.5	10.5	11.0	10.5	10.0	9.5	11.0	10.5	12.0	11.5
9	11.0	10.0	10.5	10.5	10.5	10.5	9.5	9.5	10.5	10.5	11.5	11.5
10	11.0	10.0	10.5	10.5	10.5	10.5	9.5	9.5	10.5	10.5	13.0	11.5
11	11.0	10.0	10.5	10.0	10.5	10.0	9.5	9.5	10.5	10.5	13.0	11.0
12	11.0	10.0	10.5	10.0	10.5	10.0	9.5	9.5	10.5	10.0	11.5	11.0
13	11.0	10.0	10.5	10.0	10.5	10.5	9.5	9.5	11.0	10.5	11.0	11.0
14	11.0	10.0	10.5	10.0	10.5	10.5	9.5	9.5	11.5	10.5	11.0	11.0
15	11.0	10.0	10.5	10.5	10.5	10.5	10.0	9.5	11.0	11.0	11.0	11.0
16	11.0	10.0	11.0	10.5	10.5	10.0	10.5	10.0	11.5	11.0	11.0	11.0
17	11.0	10.5	10.5	10.5	10.5	10.0	10.0	10.0	11.5	11.0	11.0	11.0
18	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.0	11.5	11.0	11.0	11.0
19	10.5	10.5	10.5	10.0	10.0	9.5	10.0	10.0	11.5	11.0	11.0	11.0
20	10.5	10.5	10.5	10.5	10.0	9.5	10.0	9.5	11.0	11.0	11.0	11.0
21	10.5	10.5	10.5	10.0	10.0	9.5	10.0	9.5	11.0	10.5	11.5	11.0
22	10.5	10.5	10.5	10.0	10.0	9.5	10.5	9.5	11.0	10.5	11.5	11.0
23	11.0	10.5	10.5	10.5	10.0	9.5	10.5	10.0	11.5	11.0	11.5	11.0
24	11.0	10.5	10.5	10.0	10.0	9.5	10.5	10.5	13.0	11.0	11.5	11.0
25	11.0	10.5	11.0	10.5	10.0	9.5	10.5	10.0	13.0	13.0	14.0	11.0
26	11.0	10.5	10.5	10.5	10.0	9.5	10.5	10.5	13.0	12.5	14.5	13.5
27	11.0	10.5	10.5	10.5	9.5	9.5	10.5	10.5	13.0	12.5	14.0	13.5
28	11.0	10.5	10.5	10.5	9.5	9.5	10.5	10.5	12.5	12.5	14.0	13.5
29	10.5	10.5	11.0	10.5	9.5	9.5	10.5	10.5	---	---	14.5	13.0
30	11.0	10.5	10.5	10.5	10.0	9.5	11.0	10.5	---	---	14.0	13.0
31	11.0	10.0	---	---	10.0	9.5	11.0	10.5	---	---	14.0	13.5
MONTH	11.5	10.0	11.0	10.0	11.0	9.5	11.0	9.5	13.0	10.0	14.5	11.0

[illegible]

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°42'02", long 122°58'16", in sec. 21, T.10 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank on upstream side of bridge on West Dry Creek Road, 1.1 mi upstream from mouth, and 3.7 mi west of Geyserville.

DRAINAGE AREA.--22.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 195 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 23-25. Records good. No regulation; some small diversion for irrigation of less than 200 acres in summer months.

AVERAGE DISCHARGE.--8 years, 54.7 ft³/s, 39,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft³/s, Jan. 26, 1983, gage height 9.01 ft; minimum, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 950 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1530	1,090	5.79	Feb. 17	1315	*4,000	*8.45
Feb. 2	0530	1,240	6.00	Mar. 9	2400	2,200	6.73

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	24	3.9	238	83	31	7.8	2.3			
2		0	338	3.5	543	75	29	12	2.2			
3		0	68	3.3	324	69	27	10	2.0			
4		0	30	40	196	65	26	8.8	1.9			
5		0	40	52	127	60	25	8.2	1.8			
6		0	26	36	91	57	24	7.8	1.8			
7		0	39	24	74	100	25	7.4	1.5			
8		0	24	19	63	395	23	7.4	.98			
9		0	19	17	54	403	21	7.0	.60			
10		0	15	14	45	1010	20	6.4	.20			
11		0	12	13	40	483	19	6.1	.10			
12		0	10	11	206	361	18	6.0	.34			
13		0	8.9	10	321	320	17	5.4	.14			
14		0	7.8	15	1850	224	16	5.1	0			
15		0	6.9	39	1100	408	17	4.8	0			
16		0	6.2	541	1110	326	17	4.2	0			
17		0	5.6	272	3080	234	16	4.4	0			
18		0	5.1	117	1370	174	14	4.0	0			
19		0	4.6	78	1090	134	13	3.6	0			
20		0	4.1	59	668	108	13	3.1	0			
21		0	3.8	51	375	94	12	3.6	0			
22		0	3.4	46	251	82	11	3.5	0			
23		0	3.2	47	197	69	11	3.4	0			
24		24	3.0	40	161	61	10	3.3	0			
25		11	2.7	36	136	56	10	3.5	0			
26		4.0	2.5	31	118	50	9.5	3.4	0			
27		1.6	2.2	28	103	47	9.1	2.3	0			
28		18	2.2	29	92	43	8.7	.11	0			
29		62	4.1	188	---	39	8.2	5.0	0			
30		16	7.1	232	---	36	7.8	2.4	0			
31		---	4.5	379	---	34	---	2.4	---			---
TOTAL	0	136.6	732.9	2474.7	14023	5700	508.3	162.41	15.86	0	0	0
MEAN	0	4.55	23.6	79.8	501	184	16.9	5.24	.53	0	0	0
MAX	0	62	338	541	3080	1010	31	12	2.3	0	0	0
MIN	0	0	2.2	3.3	40	34	7.8	.11	0	0	0	0
AC-FT	0	271	1450	4910	27810	11310	1010	322	31	0	0	0

CAL. YR. 1985 TOTAL 4128.25 MEAN 11.5 MAX 512 MIN 0 AC-FT 22220

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER TEMPERATURE: Water years 1979 to current year.

SEDIMENT DATA: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1978 to September 1984, October 1984 to current year (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: October 1978 to September 1984, October 1984 to current year (storm season only).

REMARKS.--Zero bedload discharge observed at flows less than 49 ft³/s. Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily, 5,000 mg/L, Dec. 25, 1983; minimum daily mean, no flow on many days in 1979-86.

SEDIMENT LOAD: Maximum daily, 37,600 tons, Feb. 17, 1986; minimum daily, 0 ton on many days in 1979-86.

EXTREMES FOR CURRENT YEAR (storm season only).--

SEDIMENT CONCENTRATION: Maximum daily mean, 4,480 mg/L, Feb. 17; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 37,600 tons, Feb. 17; minimum daily, 0 ton on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	9.5	9.5	12.0	14.5	14.0	13.0				
2		---	12.0	---	12.0	---	---	---				
3		---	---	8.5	11.0	11.0	11.0	---				
4		---	---	10.0	10.5	11.0	---	16.0				
5		---	11.0	11.0	10.5	---	14.5	---				
6		---	---	---	10.5	12.0	---	13.0				
7		---	---	10.0	8.5	13.5	12.5	---				
8		---	---	---	10.0	13.0	---	13.5				
9		---	8.0	---	---	12.5	---	---				
10		---	5.5	---	10.5	12.0	12.5	14.0				
11		---	---	6.5	10.0	12.0	---	---				
12		---	4.0	---	10.0	---	15.0	13.5				
13		---	---	---	11.0	11.5	---	---				
14		---	---	9.0	12.5	11.5	12.0	19.5				
15		---	7.5	9.5	12.5	11.5	---	---				
16		---	---	10.5	13.0	14.0	12.0	15.0				
17		---	---	---	13.5	---	---	---				
18		---	---	---	13.5	10.5	11.0	---				
19		---	---	12.5	13.0	11.0	---	16.0				
20		---	---	11.0	12.5	11.0	13.0	---				
21		---	4.5	11.0	12.0	---	---	---				
22		---	---	11.5	---	---	---	---				
23		---	---	10.0	---	11.5	---	18.5				
24		---	---	8.0	12.0	12.0	13.0	---				
25		10.0	---	9.5	---	---	---	---				
26		---	6.0	10.5	11.5	11.0	---	---				
27		10.0	---	9.5	11.5	13.0	---	---				
28		---	5.0	9.5	11.5	12.5	14.0	---				
29		12.0	---	10.5	---	---	---	---				
30		---	7.0	11.0	---	17.0	---	---				
31		---	---	11.5	---	---	---	---				
MONTH		---	---	---	11.5	---	---	---				

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1			.00	0	.00	24	91	29	
2			.00	0	.00	338	674	970	
3			.00	0	.00	68	33	6.1	
4			.00	0	.00	30	9	.73	
5			.00	0	.00	40	11	1.2	
6			.00	0	.00	26	6	.42	
7			.00	0	.00	39	11	1.2	
8			.00	0	.00	24	5	.32	
9			.00	0	.00	19	4	.21	
10			.00	0	.00	15	2	.08	
11			.00	0	.00	12	3	.10	
12			.00	0	.00	10	3	.08	
13			.00	0	.00	8.9	3	.07	
14			.00	0	.00	7.8	2	.04	
15			.00	0	.00	6.9	2	.04	
16			.00	0	.00	6.2	2	.03	
17			.00	0	.00	5.6	2	.03	
18			.00	0	.00	5.1	2	.03	
19			.00	0	.00	4.6	2	.02	
20			.00	0	.00	4.1	2	.02	
21			.00	0	.00	3.8	2	.02	
22			.00	0	.00	3.4	2	.02	
23			.00	0	.00	3.2	2	.02	
24			24	45	2.9	3.0	2	.02	
25			11	11	.33	2.7	3	.02	
26			4.0	3	.03	2.5	3	.02	
27			1.6	3	.01	2.2	3	.02	
28			18	33	2.1	2.2	2	.01	
29			62	235	64	4.1	3	.03	
30			16	77	4.0	7.1	5	.10	
31			---	---	---	4.5	3	.04	
TOTAL			136.60	---	73.37	732.9	---	1010.04	
JANUARY			FEBRUARY			MARCH			
1	3.9	2	.02	238	139	121	83	5	1.1
2	3.5	1	.01	543	859	1630	75	4	.81
3	3.3	1	.01	324	453	481	69	4	.75
4	40	43	6.9	196	82	47	65	3	.53
5	52	16	2.4	127	26	8.9	60	3	.49
6	36	5	.49	91	14	3.4	57	3	.46
7	24	4	.26	74	11	2.2	100	26	8.8
8	19	4	.21	63	7	1.2	395	528	817
9	17	3	.14	54	6	.87	403	470	1430
10	14	3	.11	45	5	.61	1010	1570	5070
11	13	2	.07	40	3	.32	483	719	994
12	11	2	.06	206	409	606	361	320	333
13	10	2	.05	321	312	387	320	251	248
14	15	7	.28	1850	2130	11300	224	87	53
15	39	13	3.7	1100	1570	4770	408	444	599
16	541	712	1500	1110	2010	7760	326	178	160
17	272	147	158	3080	4480	37600	234	92	58
18	117	17	5.4	1370	1930	7860	174	37	17
19	78	8	1.7	1090	1560	4790	134	20	7.2
20	59	5	.80	668	571	1090	108	13	3.8
21	51	4	.55	375	250	253	94	9	2.3
22	46	3	.37	251	136	92	82	7	1.5
23	47	3	.38	197	59	31	69	6	1.1
24	40	3	.32	161	27	12	61	5	.82
25	36	3	.29	136	18	6.6	56	4	.60
26	31	3	.25	118	13	1700	50	3	.41
27	28	2	.15	103	10	2.8	47	3	.38
28	29	3	.23	92	7	1.7	43	3	.35
29	188	230	252	---	---	---	39	3	.32
30	232	109	68	---	---	---	36	2	.19
31	379	585	870	---	---	---	34	2	.18
TOTAL	2474.7	---	2873.15	14023	---	80558.60	5700	---	9811.09

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	31	2	.17	7.8	1	.02			
2	29	2	.16	12	3	.10			
3	27	1	.07	10	4	.11			
4	26	1	.07	8.8	4	.10			
5	25	1	.07	8.2	3	.07			
6	24	1	.06	7.8	2	.04			
7	25	1	.07	7.4	2	.04			
8	23	1	.06	7.4	1	.02			
9	21	1	.06	7.0	1	.02			
10	20	1	.05	6.4	1	.02			
11	19	1	.05	6.1	1	.02			
12	18	1	.05	6.0	1	.02			
13	17	1	.05	5.4	2	.03			
14	16	1	.04	5.1	2	.03			
15	17	1	.05	4.8	2	.03			
16	17	0	.00	4.2	2	.02			
17	16	0	.00	4.4	2	.02			
18	14	1	.04	4.0	2	.02			
19	13	1	.04	3.6	1	.01			
20	13	0	.00	3.1	1	.01			
21	12	0	.00	3.6	1	.01			
22	11	0	.00	3.5	1	.01			
23	11	0	.00	3.4	1	.01			
24	10	0	.00	3.3	1	.01			
25	10	0	.00	3.5	1	.01			
26	9.5	0	.00	3.4	1	.01			
27	9.1	0	.00	2.3	1	.01			
28	8.7	1	.02	.11	1	.00			
29	8.2	1	.02	5.0	3	.04			
30	7.8	1	.02	2.4	2	.01			
31	---	---	---	2.4	1	.01			
TOTAL	508.3	---	1.22	162.41	---	0.88			
PERIOD	23737.91		94328.35						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1985 TO MAY 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1985	136.60	73.37	1	74
DECEMBER ...	732.90	1010.04	52	1060
JANUARY 1986	2474.70	2873.15	282	3160
FEBRUARY ...	14023.00	80558.60	4990	85500
MARCH	5700.00	9811.09	823	10600
APRIL	508.30	1.22	0	1
MAY	162.41	.88	0	1
PERIOD	23737.91	94328.35	6148	100396

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC								
02...	1240	311	12.0	284	238	34	44	53
JAN								
16...	1030	342	10.5	306	283	--	--	--
29...	1400	168	10.5	261	118	--	--	--
29...	2020	564	11.0	687	1050	--	--	--
31...	1855	569	12.0	648	996	24	35	45
FEB								
19...	1140	1090	13.0	1150	3380	--	--	--
19...	1440	1110	13.0	1240	3720	9	16	24
19...	1630	1150	13.0	1440	4470	--	--	--
MAR								
08...	0635	486	13.0	999	1310	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
DEC							
02...	73	84	94	97	98	100	--
JAN							
16...	--	--	72	83	93	99	100
29...	--	--	79	--	--	--	--
29...	--	--	73	--	--	--	--
31...	65	77	87	94	97	100	--
FEB							
19...	--	--	56	--	--	--	--
19...	34	45	55	68	86	98	100
19...	--	--	65	--	--	--	--
MAR							
08...	--	--	60	76	92	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
JAN								
29...	1735	7.00	10.5	1	362	--	--	--
29...	1740	15.0	10.5	1	--	--	--	1
29...	1745	35.0	10.5	1	--	1	2	6
29...	1750	51.0	10.5	1	--	--	--	1
29...	1755	63.0	10.5	1	--	1	2	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JAN							
29...	--	--	1	3	10	33	100
29...	3	7	10	16	23	39	100
29...	17	34	57	79	100	--	--
29...	7	16	25	36	53	80	100
29...	8	12	17	28	40	100	--

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1966

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. THAN .125 MM	SED. BEDLOAD SIEVE DIAM. THAN .250 MM
DEC 02...	1300	12.0	5	299	70.0	7.4	--	13
JAN 16...	1045	10.5	19	349	63.0	25	1	8
FEB 19...	1540	13.0	26	1210	77.0	68	1	9

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC 02...	39	62	70	77	88	100	--
JAN 16...	25	35	44	60	77	92	100
FEB 19...	29	37	41	49	65	87	100

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on left bank pier of bridge 0.3 mi downstream from Pena Creek, and 3 mi west of Geyserville.

DRAINAGE AREA.--162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WRD CA-65-1: 1962(M), 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 156.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 4.00 ft higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 3.00 ft higher. Apr. 9, 1976, to Sept. 30, 1982, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 17, 18, Feb. 21-26, Mar. 12, 13, Sept. 27-30. Records good. Small diversions above station for irrigation of about 1,200 acres in summer. Flow regulated by Warm Springs Dam (station 11464900) 3.0 miles upstream beginning October 1983.

AVERAGE DISCHARGE.--24 years (water years 1959-1983), 342 ft³/s, 248,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s, Jan. 31, 1963, gage height, 20.50 ft, present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,280 ft³/s, Feb. 17, gage height, 10.41 ft; minimum daily, 32 ft³/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	48	92	61	424	1120	149	120	102	105	111	110
2	33	50	531	60	786	1090	146	123	101	104	112	112
3	33	51	160	61	572	1100	145	121	100	103	112	111
4	34	94	103	103	398	1110	142	118	101	104	112	107
5	35	147	104	117	272	1100	140	118	100	104	112	103
6	35	148	91	101	208	1120	140	108	104	106	111	101
7	34	115	103	88	170	1180	142	98	108	104	111	101
8	35	44	94	80	145	1630	141	97	106	103	110	102
9	35	42	85	75	133	2030	137	97	105	104	110	100
10	36	42	81	71	122	1670	137	97	65	104	111	101
11	36	40	80	69	113	1140	134	96	101	105	110	101
12	37	39	68	67	333	3400	132	95	99	157	107	103
13	38	39	66	65	608	3200	132	96	101	144	104	103
14	38	38	66	72	2810	3080	128	95	105	159	104	103
15	38	35	65	104	1860	3460	130	94	104	113	104	103
16	39	35	64	709	1710	3350	130	94	104	111	105	104
17	41	35	64	480	4230	3130	129	95	101	112	104	105
18	41	40	62	210	1870	2880	128	94	103	114	105	103
19	120	42	62	159	1520	2580	124	93	108	118	105	103
20	182	43	61	123	1250	1730	124	93	107	123	102	102
21	191	42	60	119	805	975	124	93	107	122	109	102
22	144	42	60	113	523	533	123	93	109	121	109	100
23	47	42	59	114	367	517	123	99	109	125	110	96
24	43	72	59	105	358	512	121	107	108	119	110	97
25	42	59	59	99	638	376	122	107	108	122	113	98
26	39	49	58	93	764	242	121	106	109	121	113	95
27	39	47	58	88	965	216	121	105	106	128	113	94
28	39	69	58	89	1150	166	119	105	105	117	113	93
29	39	129	59	315	---	159	120	104	105	120	114	93
30	40	94	61	383	---	153	120	103	105	114	111	93
31	45	---	61	597	---	150	---	102	---	112	110	---
TOTAL	1660	1812	2754	4990	25104	45099	3924	3166	3096	3618	3387	3039
MEAN	53.5	60.4	88.8	161	897	1455	131	102	103	117	109	101
MAX	191	148	531	709	4230	3460	149	123	109	159	114	112
MIN	32	35	58	60	113	150	119	93	65	103	102	93
AC-FT	3290	3590	5460	9900	49790	89450	7780	6280	6140	7180	6720	6030
CAL YR 1985 TOTAL	23362			MEAN 64.0	MAX 827	MIN 23	AC-FT 46340					
WTR YR 1986 TOTAL	101649			MEAN 278	MAX 4230	MIN 32	AC-FT 201600					

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

CHEMICAL DATA: Water years 1971-81.

WATER TEMPERATURE: Water years 1964 to current year.

SEDIMENT DATA: Water years 1964 to current year.

TURBIDITY: Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 1964 to September 1984, October 1984 to current year (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: March 1964 to current year, October 1984 to current year (storm season only).

REMARKS.--Sediment samples were collected on most days where a water temperature is published. Zero bedload discharge observed at flows less than 118 ft³/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 15,000 mg/L, estimated, Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-82.

SEDIMENT LOAD: Maximum daily, 830,000 tons (estimated), Dec. 22, 1964; minimum daily, 0 ton many days in 1964, 1966, 1968-83.

EXTREMES FOR CURRENT YEAR (storm season only).--

SEDIMENT CONCENTRATION: Maximum daily mean, 2,560 mg/L, Feb. 17; minimum daily mean, 1 mg/L, Nov. 23.

SEDIMENT LOAD: Maximum daily, 30,200 tons, Feb. 17; minimum daily, 0.11 ton, Nov. 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.0	11.0	11.5	14.0	13.5	13.0	---	---	---	---
2	---	---	12.0	---	11.5	---	16.0	13.0	---	---	---	---
3	---	---	---	9.5	11.0	12.0	13.5	---	---	---	---	---
4	---	---	---	10.0	10.0	11.5	13.5	15.0	---	---	---	---
5	---	10.5	11.0	11.5	10.0	---	15.0	13.0	---	---	---	---
6	---	---	---	---	10.5	12.0	15.0	---	---	---	---	---
7	---	---	---	8.5	8.5	12.0	13.5	---	---	---	---	---
8	---	9.5	---	---	12.0	12.0	13.5	13.0	---	---	---	---
9	---	---	7.5	---	---	11.5	---	13.0	---	---	---	---
10	---	10.5	10.5	---	9.0	12.0	14.0	13.0	---	---	---	---
11	---	---	---	8.0	10.0	12.0	13.5	---	---	---	---	---
12	---	7.5	8.0	---	10.5	10.5	16.0	13.5	---	---	---	---
13	---	10.5	---	---	10.5	11.0	---	14.0	---	---	---	---
14	---	8.5	---	9.0	12.0	12.0	13.5	17.0	---	---	---	---
15	---	---	11.0	10.5	12.0	11.0	13.5	---	---	---	---	---
16	---	12.5	---	10.5	12.5	12.0	13.5	14.0	---	---	---	---
17	---	---	---	---	13.0	---	13.5	18.0	---	---	---	---
18	---	9.0	---	---	12.5	10.5	13.5	---	---	---	---	---
19	---	---	---	11.0	12.0	10.5	16.0	13.5	---	---	---	---
20	---	---	---	11.0	12.0	11.0	12.0	14.0	---	---	16.0	---
21	---	11.0	9.0	10.5	11.5	---	12.5	---	---	---	---	---
22	---	---	---	11.0	---	---	---	---	---	---	---	---
23	---	11.0	---	10.0	---	12.0	---	16.0	---	---	---	---
24	---	10.0	---	9.0	12.0	11.0	12.5	---	---	---	---	---
25	---	10.0	---	11.5	---	---	---	---	---	---	---	---
26	---	---	10.0	12.0	12.0	12.0	---	---	---	---	---	---
27	---	10.5	---	10.0	12.5	13.5	---	---	16.5	---	---	---
28	---	---	8.5	10.0	12.0	13.0	13.5	---	---	---	---	---
29	---	11.0	---	10.5	---	15.5	13.0	---	---	---	---	---
30	10.5	---	10.0	10.0	---	15.5	---	---	---	---	---	---
31	---	---	11.0	12.0	---	13.5	---	---	---	---	---	---
MONTH	---	---	---	---	11.5	12.0	---	---	---	---	---	---

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), NOVEMBER 1985 TO MAY 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1			48	5	.65	92	16	7.4	
2			50	5	.68	531	623	996	
3			51	5	.69	160	208	90	
4			94	7	1.8	103	64	18	
5			147	9	3.6	104	17	4.8	
6			148	8	3.2	91	17	4.2	
7			115	6	1.9	103	16	4.4	
8			44	5	.59	94	16	4.1	
9			42	4	.45	85	16	3.7	
10			42	3	.34	81	19	4.2	
11			40	4	.43	80	16	3.5	
12			39	4	.42	68	12	2.2	
13			39	3	.32	66	13	2.3	
14			38	4	.41	66	14	2.5	
15			35	4	.38	65	15	2.6	
16			35	4	.38	64	14	2.4	
17			35	4	.38	64	13	2.2	
18			40	3	.32	62	12	2.0	
19			42	3	.34	62	11	1.8	
20			43	3	.35	61	10	1.6	
21			42	3	.34	60	9	1.5	
22			42	2	.23	60	9	1.5	
23			42	1	.11	59	8	1.3	
24			72	7	1.4	59	8	1.3	
25			59	8	1.3	59	7	1.1	
26			49	5	.66	58	7	1.1	
27			47	3	.38	58	8	1.3	
28			69	7	1.3	58	8	1.3	
29			129	131	57	59	8	1.3	
30			94	35	9.5	61	7	1.2	
31			---	---	---	61	5	.82	
TOTAL			1812	---	89.85	2754	---	1173.62	
JANUARY			FEBRUARY			MARCH			
1	61	6	.99	424	100	114	1120	728	2200
2	60	6	.97	786	528	1390	1090	655	1930
3	61	5	.82	572	214	371	1100	582	1730
4	103	20	5.6	398	73	78	1110	545	1630
5	117	11	3.5	272	44	32	1100	497	1480
6	101	7	1.9	208	31	17	1120	467	1410
7	88	5	1.2	170	18	8.3	1180	442	1410
8	80	5	1.1	145	13	5.1	1630	426	1880
9	75	5	1.0	133	12	4.3	2030	600	3960
10	71	5	.96	122	11	3.6	1670	734	4320
11	69	5	.93	113	10	3.1	1140	363	1400
12	67	5	.90	333	241	476	3400	332	3050
13	65	5	.88	608	217	422	3200	266	2300
14	72	5	.97	2810	1440	12300	3080	211	1750
15	104	10	5.0	1860	863	4590	3460	183	1710
16	709	488	1250	1710	822	4990	3350	153	1380
17	480	150	194	4230	2560	30200	3130	139	1170
18	210	31	18	1870	1020	5590	2880	121	941
19	159	15	6.4	1520	908	3730	2580	117	815
20	123	10	3.3	1250	397	1340	1730	114	532
21	119	8	2.6	805	294	640	975	150	395
22	113	7	2.1	523	159	225	533	167	240
23	114	8	2.5	367	74	73	517	141	197
24	105	6	1.7	358	65	63	512	120	166
25	99	9	2.4	638	435	750	376	78	79
26	93	8	2.0	764	840	1700	242	55	36
27	88	7	1.7	965	988	2860	216	48	28
28	89	8	1.9	1150	820	2550	166	35	16
29	315	161	278	---	---	---	159	28	12
30	383	73	81	---	---	---	153	25	10
31	597	461	949	---	---	---	150	26	11
TOTAL	4000	2822	33	25104	---	74525.4	45000	---	28188

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), NOVEMBER 1985 TO MAY 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	149	37	15	120	16	5.2			
2	146	24	9.5	123	20	6.6			
3	145	23	9.0	121	21	6.9			
4	142	24	9.2	118	22	7.0			
5	140	26	9.8	118	22	7.0			
6	140	24	9.1	108	20	5.8			
7	142	25	9.6	98	18	4.8			
8	141	25	9.5	97	16	4.2			
9	137	24	8.9	97	17	4.5			
10	137	23	8.5	97	15	3.9			
11	134	22	8.0	96	14	3.6			
12	132	20	7.1	95	14	3.6			
13	132	20	7.1	96	12	3.1			
14	128	21	7.3	95	11	2.8			
15	130	21	7.4	94	11	2.8			
16	130	20	7.0	94	11	2.8			
17	129	20	7.0	95	13	3.3			
18	128	19	6.6	94	14	3.6			
19	124	40	13	93	14	3.5			
20	124	40	13	93	14	3.5			
21	124	21	7.0	93	14	3.5			
22	123	20	6.6	93	13	3.3			
23	123	19	6.3	99	13	3.5			
24	121	18	5.9	107	13	3.8			
25	122	17	5.6	107	13	3.8			
26	121	16	5.2	106	13	3.7			
27	121	16	5.2	105	13	3.7			
28	119	15	4.8	105	13	3.7			
29	120	17	5.5	104	13	3.7			
30	120	16	5.2	103	13	3.6			
31	---	---	---	102	13	3.6			
TOTAL	3924	---	238.9	3166	---	128.4			
PERIOD	86849		117167.49						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1985 TO MAY 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1985	1812	89.85	1	91
DECEMBER ...	2754	1173.62	171	1340
JANUARY 1986	4990	2823.32	723	3550
FEBRUARY ...	25104	74525.40	14100	88600
MARCH	45099	38188.00	2960	41100
APRIL	3924	238.90	0	239
MAY	3166	128.40	0	128
PERIOD	86849	117167.49	17955	135048

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

				SEDI- MENT, DIS- CHARGE, SUS- PENDE	SEDI- MENT, DIS- CHARGE, SUS- PENDE	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)				
JAN							
31...	1640	850	12.5	740	1700	28	38
FEB							
15...	1355	2000	12.0	1000	5400	16	24
17...	0925	4640	13.0	2120	26600	--	--
17...	1815	4710	13.0	2420	30800	--	--
17...	2205	3840	14.0	2330	24200	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM
JAN							
31...	53	67	80	89	95	99	100
FEB							
15...	35	46	59	68	86	97	100
17...	--	--	--	80	--	--	--
17...	--	--	--	74	--	--	--
17...	--	--	--	72	--	--	--

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, NOVEMBER 1985 TO MAY 1986

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
NOV						FEB					
05...	0815	10.5	144	9	2.0	01...	0915	11.5	439	85	39
08...	0625	9.5	42	5	2.0	01...	2120	12.5	317	56	20
10...	1000	10.5	42	3	1.0	02...	0735	11.5	990	842	290
12...	0800	7.5	39	4	1.0	02...	2200	11.5	580	131	60
13...	1340	10.5	39	3	1.0	03...	0820	11.0	520	204	70
14...	0840	8.5	39	4	1.0	04...	0835	10.0	421	67	25
16...	1445	12.5	35	4	1.0	05...	0550	10.0	288	48	13
18...	0755	9.0	36	3	1.0	06...	2115	10.5	190	27	10
21...	1645	11.0	43	3	2.0	07...	0800	8.5	173	18	9.0
23...	1430	11.0	44	1	1.0	08...	1510	12.0	149	13	9.0
24...	0855	10.0	63	7	2.0	10...	0750	9.0	122	11	8.0
25...	0705	10.0	62	8	3.0	11...	1100	10.0	113	9	9.0
27...	0840	10.5	46	3	1.0	11...	2125	10.0	109	11	9.0
29...	0635	10.5	100	86	40	12...	1845	10.5	433	213	65
29...	1045	11.0	230	268	130	13...	0005	11.0	996	733	250
DEC						13...	0705	10.5	619	158	70
01...	1545	10.5	79	2	1.0	14...	0610	12.0	2660	1310	390
01...	1825	10.0	84	5	2.0	14...	1810	12.0	2910	1280	380
01...	2120	10.0	106	29	9.0	14...	2220	12.0	2140	550	260
02...	0040	9.5	433	573	160	15...	0850	12.0	1950	1060	350
02...	0620	10.0	603	607	270	15...	1020	12.0	1880	613	210
02...	1025	12.0	767	820	400	15...	1100	12.0	1840	549	190
05...	0855	11.0	112	17	7.0	15...	1200	12.0	1780	574	210
09...	0725	7.5	86	16	10	15...	1355	12.0	2000	1000	260
10...	1130	--	81	18	13	15...	1415	12.0	2000	712	250
10...	1455	10.5	81	20	11	15...	1835	12.5	1680	554	190
12...	0855	8.0	68	12	9.0	16...	1315	12.5	1280	593	140
15...	1320	11.0	64	15	8.0	16...	1625	13.0	2090	1300	290
21...	0845	9.0	60	9	5.0	17...	0705	13.0	3660	706	300
26...	1750	10.0	58	7	4.0	17...	0925	13.0	4640	2120	550
28...	0930	8.5	58	8	4.0	17...	1815	13.0	4710	2420	600
30...	0655	10.0	62	7	4.0	17...	2205	14.0	3840	2330	600
31...	1140	11.0	62	5	2.0	18...	0715	13.0	2170	971	270
JAN						18...	2105	12.5	1390	860	210
01...	1815	11.0	60	6	2.0	19...	0705	12.0	1520	1230	320
03...	0815	9.5	61	5	2.0	20...	1210	13.0	1250	374	120
04...	0755	10.0	76	25	15	21...	0640	11.5	870	311	80
04...	1205	11.0	105	22	10	24...	0900	12.0	306	71	18
05...	0945	11.5	125	9	6.0	26...	0620	12.0	782	860	700
07...	0910	8.5	88	5	2.0	FEB					
11...	0750	8.0	68	5	2.0	27...	0910	12.5	742	753	550
14...	0800	9.5	66	4	2.0	27...	1245	--	1010	846	550
14...	1420	9.0	75	6	3.0	28...	0810	12.0	1140	793	550
15...	1600	10.5	82	6	2.0	MAR					
16...	0750	--	458	154	70	01...	1350	14.0	1130	725	600
16...	0840	10.5	474	174	75	03...	0820	12.0	1050	589	550
16...	1155	11.0	595	279	95	04...	0615	11.5	1080	563	500
16...	1420	11.5	881	736	220	06...	0830	12.0	1100	473	400
16...	1640	11.5	1250	1140	380	07...	0810	12.0	1130	449	400
16...	2250	11.5	820	336	120	08...	0655	12.0	1670	426	360
18...	1050	--	172	28	9.0	09...	1500	11.5	1690	385	330
19...	2015	11.0	99	13	5.0	10...	0845	12.0	1520	736	270
20...	1750	11.0	85	9	4.0	11...	0900	12.0	735	249	90
21...	2005	10.5	74	7	3.0	12...	0625	10.5	2600	352	210
22...	1745	11.0	70	7	3.0	13...	0835	11.0	2610	216	170
23...	2040	10.0	73	8	3.0	13...	1615	--	3040	326	160
24...	0830	9.0	70	6	3.0	13...	1735	--	3070	331	160
25...	1700	11.5	69	9	5.0	14...	1140	12.0	3050	203	130
26...	1540	12.0	72	8	4.0	15...	1035	11.0	3360	174	140
27...	0900	10.0	62	7	3.0	16...	1540	12.0	3310	153	130
28...	0750	10.0	58	8	5.0	18...	0650	10.5	2890	127	95
29...	0615	10.5	62	7	4.0	19...	0615	10.5	2900	117	110
29...	1430	--	269	171	70	20...	0815	11.0	2250	114	100
29...	1610	10.5	503	284	110	23...	0950	12.0	519	141	120
29...	2045	10.5	688	393	150	24...	0725	11.0	496	120	110
30...	0445	10.0	439	89	45	26...	0630	12.0	240	55	75
30...	2110	12.0	319	60	35	27...	0835	13.5	240	48	50
31...	0815	11.5	343	41	21	28...	0800	13.0	167	40	40
31...	1005	12.0	651	696	300	28...	1115	14.0	168	30	36
31...	1315	12.0	776	682	330	29...	1745	15.5	159	28	39
31...	1450	12.5	815	374	150	30...	1835	15.5	154	25	35
31...	1640	12.5	850	740	280	31...	0725	13.5	150	26	38
31...	1655	12.5	850	709	320						

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, NOVEMBER 1985 TO MAY 1986

DATE	TIME	TEMPER- ATURE	STREAM- FLOW, INSTAN- TANEOUS	SEDI- MENT, SUS- PENDE	TUR- BID- ITY
APR					
01...	0900	13.5	148	37	39
02...	1710	16.0	146	24	39
03...	0850	13.5	144	23	37
04...	0820	13.5	144	24	38
05...	1445	15.0	142	26	37
06...	1115	15.0	139	24	40
07...	0805	13.5	140	25	39
08...	0810	13.5	140	25	34
10...	0830	14.0	136	23	36
11...	0645	13.5	133	22	36
12...	1240	16.0	133	20	36
14...	0810	13.5	129	21	36
15...	0750	13.5	129	21	36
16...	0605	13.5	129	20	33
17...	0840	13.5	129	20	34
18...	0810	13.5	128	19	35
19...	1235	16.0	125	40	60
20...	0705	12.0	124	40	60
21...	0600	12.5	124	21	38
24...	0805	12.5	121	18	31
28...	0730	13.5	121	15	30
29...	0845	13.0	120	17	31
MAY					
01...	0835	13.0	120	16	31
02...	0820	13.0	122	20	37
04...	1830	15.0	118	22	37
05...	0800	13.0	117	22	36
05...	1540	15.0	118	22	38
08...	0830	13.0	97	16	31
09...	0800	13.0	98	17	30
10...	0705	13.0	96	15	26
12...	0810	13.5	96	14	21
13...	0840	14.0	96	12	23
14...	1710	17.0	97	11	23
16...	0810	14.0	94	11	22
17...	1850	18.0	96	13	21
19...	0900	13.5	93	14	28
20...	0750	14.0	93	14	20
23...	1935	16.0	105	13	23

RUSSIAN RIVER BASIN

11465350 DRY CREEK NEAR MOUTH, NEAR HEALDSBURG, CA

LOCATION.--Lat 38°35'15", long 122°51'40", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 0.25 mi upstream from mouth, 0.4 mi downstream from Mill Creek, 1.7 mi south of Healdsburg, and 13.5 mi downstream from Warm Springs Dam.

DRAINAGE AREA.--217 mi².

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No records computed above 200 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	21	73	64	---	---	---	136	89	99	94	94
2	25	21	---	63	---	---	200	140	93	98	97	95
3	24	21	---	63	---	---	195	134	94	98	98	97
4	24	25	---	---	---	---	190	128	94	97	98	97
5	26	93	---	---	---	---	186	125	94	96	97	89
6	27	118	179	169	---	---	185	118	94	96	96	86
7	28	128	---	134	---	---	189	103	104	98	95	85
8	28	68	144	112	---	---	183	100	100	97	96	87
9	27	39	106	98	---	---	175	98	100	96	96	86
10	27	32	90	90	---	---	172	93	81	95	96	89
11	28	29	77	84	188	---	170	92	81	94	96	90
12	29	26	69	79	---	---	166	93	86	114	95	91
13	29	24	63	74	---	---	162	92	86	134	91	93
14	29	23	61	96	---	---	160	89	93	162	89	94
15	29	22	58	---	---	---	161	88	94	112	89	95
16	30	21	56	---	---	---	159	89	95	94	89	98
17	30	20	55	---	---	---	158	88	94	91	89	101
18	30	19	54	---	---	---	153	88	91	92	88	99
19	35	21	54	---	---	---	151	88	99	103	88	98
20	107	23	53	---	---	---	149	88	97	105	85	95
21	140	23	52	---	---	---	145	86	96	106	88	94
22	129	24	52	---	---	---	142	85	99	99	92	93
23	57	24	52	---	---	---	142	87	100	99	94	85
24	35	67	52	192	---	---	141	96	100	101	94	87
25	28	59	53	169	---	---	139	98	99	101	96	84
26	25	37	53	153	---	---	138	96	99	102	95	82
27	23	31	53	138	---	---	137	95	101	102	95	83
28	22	34	54	127	---	---	136	95	101	102	95	81
29	22	56	57	---	---	---	136	94	100	94	94	80
30	22	103	77	---	---	---	136	92	99	91	93	80
31	22	---	68	---	---	---	---	90	---	89	93	---
TOTAL	1162	1252	---	---	---	---	---	3084	2853	3157	2891	2708
MEAN	37.5	41.7	---	---	---	---	---	99.5	95.1	102	93.3	90.3
MAX	140	128	---	---	---	---	---	140	104	162	98	101
MIN	22	19	---	---	---	---	---	85	81	89	85	80
AC-FT	2300	2480	---	---	---	---	---	6120	5660	6260	5730	5370

RUSSIAN RIVER BASIN

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, Hydrologic Unit 18010110, on downstream side of left bank pier of highway bridge, 0.2 mi downstream from Santa Rosa Creek, and 2 mi northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft downstream at same datum.

REMARKS.--No gage-height record Sept. 1-10. The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River, and the laguna acts as a natural regulator of floods on the lower Russian River. Figures given herein represent only those days when the elevation was above 55.0 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 74.6 ft, Feb. 18, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 74.6 ft, Feb. 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	55.90	---						
2			55.40	---	57.50	---						
3			---	---	56.90	---						
4			---	---	55.60	---						
5			---	---	---	---						
6			---	---	---	---						
7			---	---	---	---						
8			---	---	---	56.30						
9			---	---	---	55.70						
10			---	---	---	57.80						
11			---	---	---	57.20						
12			---	---	55.80	56.60						
13			---	---	56.90	56.30						
14			---	---	64.80	55.10						
15			---	---	65.80	58.20						
16			---	59.20	65.70	57.80						
17			---	58.10	74.00	55.90						
18			---	56.20	72.60	---						
19			---	---	67.40	---						
20			---	---	62.70	---						
21			---	---	59.30	---						
22			---	---	57.10	---						
23			---	---	55.60	---						
24			---	---	---	---						
25			---	---	---	---						
26			---	---	---	---						
27			---	---	---	---						
28			---	---	---	---						
29			---	---	---	---						
30			---	55.50	---	---						
31			---	56.10	---	---						
MEAN			---	---	---	---						
MAX			---	---	---	---						
MIN			---	---	---	---						

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE 1/4 SE 1/4 sec.26, T.8 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of Hacienda bridge, 0.1 mi upstream from Hobson Creek, and 3.8 mi east of Guerneville.

DRAINAGE AREA.--1,338 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "at Guerneville."

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.14 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi downstream at datum 8.58 ft lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi downstream at datum 2.75 ft lower. Supplementary water-stage recorder 2.1 mi downstream used during periods of low flow 1948 to 1954.

REMARKS.--Records good. Flow regulated by Lake Mendocino (station 11461800) 77 mi upstream, and by Lake Sonoma (station 11464900, capacity 381,000 acre-ft) 26 mi upstream, since October 1983. Many diversions above station for irrigation of about 29,000 acres. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), and by diversion at Wohler pumping plant beginning in May 1959.

AVERAGE DISCHARGE.--47 years, 2,392 ft³/s, 1,733,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft³/s Feb. 18, 1986, gage height, 48.56 ft; maximum gage height, 49.7 ft Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft³/s May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 102,000 ft³/s, Feb. 18, gage height 48.56 ft; minimum daily, 139 ft³/s, Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	187	1500	604	13000	6010	1680	573	295	277	214	232
2	147	186	6830	624	16100	5480	1570	601	282	269	215	218
3	146	181	7010	600	16400	5100	1460	699	285	266	217	218
4	141	177	3550	1160	13100	4800	1390	698	276	262	221	223
5	139	214	2720	2140	8730	4620	1330	663	269	258	224	223
6	139	241	2300	2140	6900	4410	1290	639	268	278	223	218
7	141	254	2210	1630	5440	5260	1270	621	279	293	227	218
8	225	222	2440	1340	3850	14500	1310	576	278	285	227	221
9	220	197	1920	1090	2880	14300	1210	554	271	285	225	225
10	187	208	1690	957	2440	25700	1140	525	258	254	220	304
11	180	244	1510	821	2310	20000	1090	499	232	231	223	302
12	176	247	1160	753	4330	21600	1200	485	241	226	230	234
13	169	235	1030	711	14700	18800	1170	471	237	260	223	233
14	164	225	940	725	36100	15700	1010	443	232	242	223	235
15	162	219	875	1360	65600	18400	985	427	236	252	226	246
16	162	218	810	12700	59800	22700	994	418	225	219	232	257
17	162	218	762	26000	82300	16200	1070	356	222	213	239	316
18	158	213	856	12200	97700	11700	1010	294	229	217	239	311
19	162	210	857	7100	80100	9330	924	342	243	219	232	322
20	209	210	824	5310	56300	7550	864	343	260	223	231	330
21	307	210	680	3930	33200	5970	818	346	260	235	227	315
22	373	208	638	3150	20700	4760	788	337	272	215	229	308
23	322	207	621	3200	15500	4160	752	271	280	217	234	289
24	288	357	551	2910	12900	3730	723	220	289	216	239	293
25	260	620	530	2500	10600	3350	705	300	284	218	236	313
26	230	643	515	2230	8820	2840	683	315	270	224	235	315
27	215	478	495	2010	7340	2550	657	307	283	232	234	327
28	207	500	483	1770	6620	2280	629	314	275	241	232	354
29	198	1790	489	3430	---	2080	607	314	269	241	230	306
30	195	2960	680	9390	---	1910	589	308	294	235	232	280
31	189	---	650	9550	---	1790	---	299	---	217	232	---
TOTAL	6121	12279	48126	124035	703760	287580	30918	13558	7894	7520	7071	8186
MEAN	197	409	1552	4001	25130	9277	1031	437	263	243	228	273
MAX	373	2960	7010	26000	97700	25700	1680	699	295	293	239	354
MIN	139	177	483	600	2310	1790	589	220	222	213	214	218
AC-FT	12140	24360	95460	246000	1396000	570400	61330	26890	15660	14920	14030	16240

CAL YR 1985 TOTAL 296979 MEAN 814 MAX 19400 MIN 110 AC-FT 589100
WTR YR 1986 TOTAL 1257048 MEAN 3444 MAX 97700 MIN 139 AC-FT 2493000

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL DATA: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.

BIOLOGICAL DATA: Water years 1975-81.

SPECIFIC CONDUCTANCE: Water years 1974-81.

WATER TEMPERATURE: Water years 1964 to current year.

SEDIMENT DATA: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1973 to September 1981.

WATER TEMPERATURE: January 1964 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April to September 1967, October 1969 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. Zero bedload discharge observed for flows less than 661 ft³/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION (water years 1970-86): Maximum daily mean, 2,350 mg/L, Jan. 16, 1974; minimum daily mean, 1 mg/L, Oct. 21, 1982.

SEDIMENT LOAD (water years 1970-86): Maximum daily, 470,000 tons, Feb. 18, 1986; minimum daily, 0.03 ton, May 6, 1977.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,800 mg/L, Feb. 18; minimum daily mean, 1 mg/L, several days.

SEDIMENT LOAD: Maximum daily, 470,000 tons, Feb. 18; minimum daily, 0.48 ton (estimated), Nov. 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV												
12...	1255	252	236	7.80	11.0	760	1.5	10.2	93	--	400	120
JAN												
17...	1525	25800	118	6.80	12.0	770	370	9.4	86	1700	3600	48
MAR												
18...	1245	11900	174	7.40	12.0	765	79	9.8	91	470	320	77
MAY												
20...	1020	346	277	7.70	20.0	765	4.2	9.0	99	20	22	120
SEP												
24...	1050	310	237	8.20	18.5	755	3.5	10.6	114	90	35	100

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV												
12...	1	23	14	11	17	0.5	1.3	139	114	114	17	8.6
JAN												
17...	1	9.8	5.8	6.2	21	0.4	1.8	57	47	46	11	5.5
MAR												
18...	0	16	9.1	6.5	15	0.3	1.5	94	77	78	9.0	4.2
MAY												
20...	0	25	15	9.9	15	0.4	1.4	155	127	128	13	6.3
SEP												
24...	0	21	12	8.8	16	0.4	1.3	137	112	112	17	5.9

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 12...	<0.10	13	143	160	0.19	<0.010	<0.100	0.040	0.040	0.40	0.050
JAN 17...	<0.10	13	87	84	0.12	0.010	0.380	0.310	0.300	1.2	0.340
MAR 18...	0.10	18	108	110	0.15	0.020	0.880	0.030	<0.010	0.60	0.090
MAY 20...	0.10	16	170	160	0.23	<0.010	0.220	0.030	0.030	0.30	0.050
SEP 24...	0.10	12	140	150	0.19	<0.010	<0.100	<0.010	0.020	0.30	0.040

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 12...	0.030	0.030	<10	<1	75	<0.5	<1	<1	<3	1	21
JAN 17...	0.180	0.150	240	1	41	<0.5	<1	<1	<3	3	340
MAR 18...	0.070	0.060	--	--	--	--	--	--	--	--	--
MAY 20...	0.030	0.030	<10	1	81	<0.5	<1	<1	<3	<1	4
SEP 24...	0.020	0.020	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 12...	<1	6	9	<0.1	<10	2	<1	<1	220	<6	7
JAN 17...	1	<4	12	<0.1	<10	5	<1	<1	93	<6	12
MAR 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	3	6	15	<0.1	<10	3	<1	<1	230	<6	6
SEP 24...	--	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE	SPE-	PH	TEMPER-	BARO-	OXYGEN,	SEDI-
		LOC- ATION, CROSS SECTION (FT FM L BANK)	CIFIC CON- DUCT- ANCE (US/CM)			PRES- SURE (MM HG)		
MAR								
18...*	1500	186	176	7.40	13.0	765	9.9	358
18...*	1505	173	173	7.40	13.0	765	9.6	350
18...*	1511	156	173	7.40	13.0	765	9.8	382
18...*	1515	156	175	7.50	13.0	765	9.8	444
18...*	1520	115	173	7.50	13.0	765	9.5	495

*Instantaneous streamflow at time of cross-sectional measurements: Mar. 18. 11.200 ft³/s.

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	10.0	10.5	11.0	---	---				---
2		---	---	---	---	---	---	---				---
3		---	---	10.0	10.5	11.0	---	---				---
4		---	---	10.5	10.0	11.0	---	---				---
5		---	---	10.5	10.5	15.0	---	---				---
6		16.0	---	10.5	---	---	16.0	---				---
7		---	---	10.5	10.0	---	---	---				---
8		---	---	10.0	10.0	---	16.5	---				---
9		---	---	---	10.0	10.5	---	---				---
10		---	---	---	---	10.5	---	---				---
11		---	---	10.0	10.0	---	---	---				---
12		11.0	---	---	10.0	10.5	14.0	---				---
13		---	---	10.0	---	10.5	---	---				---
14		9.5	---	---	10.5	10.0	---	---				---
15		---	---	10.0	10.5	10.0	16.0	---				---
16		---	8.0	10.0	10.5	10.0	---	---				---
17		---	---	12.5	---	10.5	---	---				---
18		---	---	10.5	---	13.0	16.5	---				---
19		---	---	10.5	10.5	14.5	---	---				---
20		---	---	10.5	12.5	15.0	---	20.0				---
21		---	---	---	10.5	---	19.0	---				---
22		---	---	---	10.5	15.5	---	---				---
23		---	---	10.0	10.5	16.0	---	---				---
24		---	---	---	10.5	---	---	---				18.5
25		---	---	10.0	11.0	16.0	14.0	---				---
26		---	---	10.5	10.5	16.0	---	---				---
27		---	---	---	15.0	17.0	---	---				---
28		---	---	10.5	---	17.0	---	---				---
29		---	---	---	---	17.0	19.5	---				---
30		---	---	---	---	18.0	16.5	---				---
31		---	10.5	10.5	---	---	---	---				---
MONTH		---	---	---	---	---	---	---				---

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1				187	1	.50	1500	50	203
2				186	1	.50	6830	238	5270
3				181	1	.49	7010	229	4580
4				177	1	.48	3550	142	1360
5				214	3	1.7	2720	100	734
6				241	5	3.3	2300	80	497
7				254	5	3.4	2210	67	400
8				222	4	2.4	2440	55	362
9				197	4	2.1	1920	44	228
10				208	4	2.2	1690	36	164
11				244	5	3.3	1510	26	106
12				247	5	3.3	1160	19	60
13				235	3	1.9	1030	13	36
14				225	1	.61	940	10	25
15				219	1	.59	875	10	24
16				218	1	.59	810	10	22
17				218	1	.59	762	13	27
18				213	1	.58	856	21	48
19				210	1	.57	857	17	39
20				210	1	.57	824	12	27
21				210	1	.57	680	10	18
22				208	1	.56	638	10	17
23				207	1	.56	621	10	17
24				357	41	45	551	10	15
25				620	67	114	530	10	14
26				643	57	99	515	10	14
27				478	47	61	495	10	13
28				500	44	59	483	10	13
29				1790	77	421	489	11	15
30				2960	73	583	680	24	44
31				---	---	---	650	20	35
TOTAL				12279	---	1413.36	48126	---	14427
DAY	JANUARY			FEBRUARY			MARCH		
1	604	18	29	13000	372	13900	6010	288	4670
2	624	19	32	16100	526	24500	5480	254	3760
3	600	20	32	16400	434	19400	5100	239	3290
4	1160	114	453	13100	350	12400	4800	228	2950
5	2140	104	601	8730	218	5140	4620	219	2730
6	2140	59	341	6900	201	3740	4410	215	2560
7	1630	50	220	5440	112	1640	5260	262	3720
8	1340	29	105	3850	73	759	14500	493	19400
9	1090	18	53	2880	52	404	14300	306	12000
10	957	17	44	2440	44	290	25700	708	50100
11	821	16	35	2310	47	293	20000	439	24200
12	753	14	28	4330	155	2230	21600	500	29300
13	711	11	21	14700	286	11500	18800	332	16900
14	725	12	23	36100	980	100000	15700	179	7590
15	1360	33	149	65600	1300	240000	18400	405	21400
16	12700	342	15000	59800	890	140000	22700	594	36300
17	26000	811	58300	82300	1400	330000	16200	454	19900
18	12200	295	9720	97700	1800	470000	11700	370	11700
19	7100	137	2630	80100	820	180000	9330	224	5640
20	5310	95	1360	56300	670	100000	7550	175	3570
21	3930	64	679	33200	590	53000	5970	145	2340
22	3150	53	451	20700	470	26000	4760	105	1350
23	3200	63	544	15500	390	16300	4160	89	1000
24	2910	50	393	12900	360	12500	3730	77	775
25	2500	39	263	10600	351	10000	3350	66	597
26	2230	29	175	8820	368	8760	2840	48	368
27	2010	26	141	7340	339	6720	2550	32	220
28	1770	23	110	6620	312	5580	2280	26	160
29	3430	88	1340	---	---	---	2080	28	157
30	9390	241	6230	---	---	---	1910	29	150
31	9550	380	11900	---	---	---	1790	26	126
TOTAL	124035	---	111402	703760	---	1795056	287580	---	288923

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			
1	1680	24	109	573	14	22
2	1570	21	89	601	14	23
3	1460	19	75	699	14	26
4	1390	16	60	698	14	26
5	1330	13	47	663	14	25
6	1290	11	38	639	14	24
7	1270	13	45	621	13	22
8	1310	14	50	576	13	20
9	1210	15	49	554	13	19
10	1140	16	49	525	13	18
11	1090	16	47	499	13	18
12	1200	17	55	485	13	17
13	1170	16	51	471	13	17
14	1010	16	44	443	12	14
15	985	15	40	427	12	14
16	994	14	38	418	12	14
17	1070	12	35	356	12	14
18	1010	11	30	294	12	9.5
19	924	11	27	342	12	11
20	864	11	26	343	12	11
21	818	11	24	346	12	11
22	788	13	28	337	12	11
23	752	15	30	271	12	8.8
24	723	17	33	220	12	7.1
25	705	18	34	300	12	9.7
26	683	16	30	315	12	10
27	657	14	25	307	12	9.9
28	629	12	20	314	12	10
29	607	9	15	314	12	10
30	589	14	22	308	12	10
31	---	---	---	299	12	9.7
TOTAL	30918	---	1265	13558	---	469.7
PERIOD	1220256		2212956.10			

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1985 TO MAY 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1985	12279.00	1413.36	26	1440
DECEMBER ...	48126.00	14427.00	452	14900
JANUARY 1986	124035.00	111402.00	4690	116000
FEBRUARY ...	703760.00	1795056.00	77200	1800000
MARCH	287580.00	288923.00	15300	304000
APRIL	30918.00	1265.00	5	1270
MAY	13558.00	469.70	0	470
PERIOD	1220256.00	2212956.10	97673	2238080

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
NOV									
12...	1320	248	11.0	5	3.3	--	--	--	--
JAN									
04...	1445	1430	10.5	196	757	86	--	--	--
FEB									
05...	1335	8620	10.5	210	4890	82	94	99	100
MAY									
20...	1005	348	20.0	12	11	--	--	--	--
SEP									
24...	1040	290	18.5	12	9.4	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
FEB							
05...	1400	10.5	5	8560	1	5	20
MAR							
18...	1555	13.0	4	11200	1	8	25

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
FEB						
05...	26	33	54	76	92	100
MAR						
18...	31	43	57	66	75	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN								
17...	1700	12.5	13	23600	244	1680	--	1
FEB								
05...	1445	10.5	15	8490	182	297	--	6
DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN								
17...	11	29	48	66	82	94	98	100
FEB								
05...	43	59	69	82	94	100	--	--

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	TUR- BID- ITY (NTU)
NOV					
06...	1255	16.0	243	5	1.0
12...	1320	11.0	248	5	1.0
14...	1710	9.5	223	1	1.0
DEC					
16...	1400	8.0	796	10	2.0
31...	0920	10.5	654	17	11
31...	0955	10.5	650	23	11
JAN					
01...	1330	10.0	597	18	7.0
03...	1300	10.0	611	20	5.0
04...	1445	10.5	1430	196	60
05...	1400	10.5	2260	112	39
05...	1430	10.5	2270	86	34
06...	1530	10.5	2050	54	24
07...	1430	10.5	1590	53	17
08...	1500	10.0	1300	26	13
11...	1600	10.0	804	16	6.0
13...	1300	10.0	712	11	6.0
15...	1500	10.0	1140	26	18
16...	1000	10.0	9520	316	160
16...	1330	10.0	12400	352	140
16...	1600	10.0	15400	318	150
17...	1625	12.5	24000	712	300
18...	1600	10.5	10000	209	70
19...	1300	10.5	6960	132	40
20...	1430	10.5	5160	83	38
23...	1300	10.0	3220	62	18
23...	1700	10.0	3280	61	18
25...	1200	10.0	2500	39	17
26...	1530	10.5	2200	27	11
28...	1500	10.5	1700	23	7.0
31...	1100	10.5	7580	127	70
31...	1500	10.5	9520	474	160
FEB					
01...	1400	10.5	12300	306	180
03...	1030	10.5	15200	215	110
03...	1330	10.5	15700	400	140
04...	1500	10.0	12000	293	120
05...	1335	10.5	8620	210	68
07...	1000	10.0	5520	116	39
07...	1300	10.0	5370	100	35
08...	1530	10.0	3480	69	38
09...	1330	10.0	2850	49	23
11...	1230	10.0	2290	39	13
12...	1300	10.0	3810	150	50
14...	1130	10.5	35000	1050	380
14...	1430	10.5	42800	957	370
14...	1600	10.5	46700	921	400
15...	1100	10.5	67400	1290	750
15...	1430	10.5	67000	1350	640
15...	1630	10.5	67000	1220	740
16...	1230	10.5	57300	706	350
16...	1500	10.5	56200	646	300
19...	1400	10.5	75800	581	320
20...	1730	12.5	50800	554	240
21...	1330	10.5	31800	470	280
22...	1230	10.5	20300	427	210
22...	1500	10.5	19800	435	190
24...	1330	10.5	12800	357	150
25...	1730	10.5	10100	352	170
26...	1530	10.5	8530	375	170
27...	1430	--	7050	337	170

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	TUR- BID- ITY (NTU)
MAR					
01...	1230	11.0	5980	284	170
01...	1530	11.0	5920	288	180
01...	1800	11.0	5860	273	180
03...	1200	11.0	5090	228	160
03...	1530	11.0	5060	241	160
04...	1130	11.0	4810	241	170
04...	1400	11.0	4780	220	170
05...	1530	15.0	4590	215	160
09...	0900	10.5	14500	312	180
10...	1500	10.5	28600	747	340
12...	1100	10.5	23500	500	220
13...	1200	10.5	19700	370	170
14...	0830	10.0	16300	403	120
18...	1400	13.0	11400	349	130
18...	1455	13.0	11300	366	110
18...	1510	13.0	11300	406	100
18...	1530	13.0	11200	341	100
19...	1200	14.5	9400	211	90
20...	1300	15.0	7700	172	65
22...	1430	15.5	4670	100	38
23...	1400	16.0	4130	88	36
25...	1700	16.0	3330	64	35
26...	1130	16.0	2840	64	12
26...	1300	16.0	2820	46	18
28...	1030	17.0	2280	25	9.0
29...	1430	17.0	2060	29	10
30...	1600	18.0	1890	29	10
APR					
06...	1200	16.0	1300	11	8.0
08...	1730	16.5	1280	14	6.0
12...	1130	14.0	1230	17	5.0
15...	1200	16.0	988	15	4.0
18...	1330	16.5	997	11	6.0
21...	1130	19.0	825	11	5.0
25...	1100	14.0	703	18	5.0
29...	2000	19.5	603	9	4.0
30...	1030	16.5	595	14	6.0
MAY					
20...	1005	20.0	348	12	5.0
SEP					
24...	1040	18.5	290	12	6.0

NAVARRO RIVER BASIN

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE 1/4 sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank 2.9 mi downstream from North Fork, 5.2 mi upstream from mouth, and 6.8 mi west of Navarro.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4.79 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at site 0.2 mi upstream at datum 1.86 ft higher.

REMARKS.--Estimated daily discharge: Jan. 16 to Feb. 6, Feb. 13-20, Apr. 14-15. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--36 years, 544 ft³/s, 394,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft³/s, Dec. 22, 1955, gage height, 40.60 ft, site and datum then in use, from rating curve extended above 19,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.23 ft³/s, July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2245	13,000	19.80	Feb. 17	unknown	*49,000	*35.69
Feb. 3	unknown	11,500	18.50				

Minimum daily, 4.3 ft³/s, Sept. 9-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	18	243	69	2350	821	301	105	47	21	9.6	6.3
2	7.8	18	2560	63	3100	744	283	105	46	19	8.5	6.3
3	6.9	17	1520	60	3900	690	267	105	46	18	6.9	6.3
4	7.6	16	622	73	2700	642	254	105	44	17	7.5	6.3
5	7.0	16	665	195	1870	605	242	105	44	15	7.5	6.1
6	6.1	16	530	271	1410	571	233	107	44	14	7.5	5.8
7	6.4	15	791	212	1010	809	227	107	47	15	7.5	5.3
8	6.4	15	722	177	791	3550	222	105	48	16	8.2	4.7
9	6.4	16	521	150	642	3440	210	99	41	15	7.5	4.3
10	6.4	30	378	130	535	5770	199	92	37	14	6.7	4.3
11	6.4	56	290	115	462	5640	191	88	36	14	6.7	4.3
12	6.4	47	231	105	494	5020	183	83	33	14	6.1	4.3
13	6.4	36	196	98	3000	3920	177	82	32	13	6.0	4.3
14	6.4	30	172	124	5500	2840	168	80	32	13	6.7	4.3
15	6.2	26	154	874	10000	4160	157	76	31	13	6.7	4.6
16	6.0	29	137	5750	17200	3990	167	73	30	12	6.7	7.0
17	6.2	33	124	6100	33000	2630	214	70	30	12	6.7	15
18	6.4	32	113	2400	17600	1800	176	68	30	12	6.3	38
19	6.4	29	106	1180	11700	1190	158	65	30	12	5.8	33
20	9.1	26	106	830	7040	1080	146	65	29	11	5.8	25
21	78	25	94	610	5310	889	141	65	27	11	5.8	19
22	96	24	87	460	3360	767	137	62	26	11	5.9	17
23	80	25	83	710	2310	678	133	60	26	11	6.3	15
24	63	52	79	560	1760	608	128	58	24	11	6.3	18
25	47	226	78	460	1390	539	124	57	22	10	6.3	22
26	35	150	76	400	1170	483	120	57	21	10	6.4	27
27	28	97	71	350	1030	440	115	57	20	10	6.2	31
28	24	182	65	320	912	404	114	54	20	9.0	5.6	38
29	21	924	64	920	---	369	112	53	21	8.6	5.2	29
30	20	538	76	1280	---	340	107	52	22	8.9	5.6	23
31	19	---	77	1750	---	320	---	50	---	10	6.1	---
TOTAL	646.1	2764	11031	26796	141546	55749	5406	2411	986	400.5	206.6	434.5
MEAN	20.8	92.1	356	864	5055	1798	180	77.8	32.9	12.9	6.66	14.5
MAX	96	924	2560	6100	33000	5770	301	107	48	21	9.6	38
MIN	6.0	15	64	60	462	320	107	50	20	8.6	5.2	4.3
AC-FT	1280	5480	21880	53150	280800	110600	10720	4780	1960	794	410	862

NOYO RIVER BASIN

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE 1/4 sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi downstream from South Fork, and 3.5 mi east of Fort Bragg.

DRAINAGE AREA.--106 mi².

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--35 years, 221 ft³/s, 160,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft³/s, Mar. 29, 1974, gage height, 27.14 ft, from rating curve extended above 4,500 ft³/s on basis of slope-conveyance study; minimum daily, 0.79 ft³/s, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2330	3,140	11.06	Feb. 17	1400	*15,600	*23.05
Feb. 3	1545	2,410	9.83	Mar. 8	0730	2,920	10.71

Minimum daily, 4.0 ft³/s, Oct. 11-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	8.4	148	33	1220	373	144	46	25	15	8.9	8.8
2	5.3	8.2	532	33	1760	336	132	67	24	15	8.5	9.6
3	5.2	8.1	711	32	2190	305	124	70	25	14	8.4	5.2
4	5.1	7.9	348	39	1640	280	119	63	25	14	8.0	4.7
5	4.8	7.8	361	116	980	260	114	62	25	14	7.7	4.7
6	6.7	7.6	328	182	640	244	107	75	25	14	7.4	4.7
7	9.3	7.5	390	147	472	559	103	77	25	13	7.3	4.7
8	4.3	7.5	393	116	375	2430	98	65	20	13	6.9	4.7
9	4.1	8.2	316	94	308	1920	92	58	20	13	6.9	5.1
10	4.1	17	246	79	250	2150	88	52	21	12	7.0	5.3
11	4.0	21	188	68	213	2280	83	48	20	13	7.0	5.0
12	4.0	16	143	60	214	2030	80	45	20	13	6.6	4.8
13	4.0	13	113	57	390	1520	77	43	20	12	6.7	4.7
14	4.0	11	93	86	1100	1150	72	41	20	12	6.5	4.7
15	4.0	12	80	433	2750	1500	76	39	20	11	6.6	5.7
16	4.0	20	69	1670	5010	1700	85	38	19	11	7.0	9.6
17	4.0	21	61	2030	12400	1170	89	36	19	11	6.8	20
18	4.0	17	55	917	5450	817	74	35	19	11	6.5	28
19	4.1	15	51	572	4430	616	67	34	19	10	6.4	32
20	11	13	47	416	3490	488	63	34	18	11	6.4	20
21	55	12	44	328	2190	408	61	34	18	10	6.3	14
22	41	12	41	278	1500	358	58	32	18	10	6.4	12
23	62	12	38	325	1110	320	57	31	17	10	6.8	11
24	34	17	37	313	867	290	55	30	17	9.7	6.5	17
25	22	34	35	295	691	256	54	29	16	9.7	6.0	17
26	16	30	34	263	572	233	52	29	16	9.8	6.0	16
27	13	25	33	229	489	215	50	29	16	9.5	6.0	22
28	11	154	32	198	426	198	48	28	16	9.4	6.0	21
29	10	631	32	287	---	181	47	28	16	9.3	6.1	16
30	9.3	273	37	585	---	167	45	27	16	9.2	6.0	14
31	8.8	---	34	763	---	155	---	26	---	9.0	6.0	---
TOTAL	383.4	1447.2	5070	11044	53127	24909	2414	1351	595	357.6	211.6	352.0
MEAN	12.4	48.2	164	356	1897	804	80.5	43.6	19.8	11.5	6.83	11.7
MAX	62	631	711	2030	12400	2430	144	77	25	15	8.9	32
MIN	4.0	7.5	32	32	213	155	45	26	16	9.0	6.0	4.7
AC-FT	760	2870	10060	21910	105400	49410	4790	2680	1180	709	420	698

CAL YR 1985	TOTAL	32201.6	MEAN	88.2	MAX	3240	MIN	4.0	AC-FT	63870
WTR YR 1986	TOTAL	101261.8	MEAN	277	MAX	12400	MIN	4.0	AC-FT	200900

MATTOLE RIVER BASIN

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in NW 1/4 sec.11, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, on right bank 0.2 mi upstream from Clear Creek, 1.5 mi southeast of Petrolia, and 1.7 mi upstream from North Fork.

DRAINAGE AREA.--240 mi².

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi upstream at datum 7.48 ft higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 350 acres above station.

AVERAGE DISCHARGE.--38 years, 1,377 ft³/s, 997,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft³/s, Dec. 22, 1955, gage height, 29.60 ft, site and datum then in use, from rating curve extended above 26,000 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 17 ft³/s, Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1900	25,400	15.78	Feb. 17	2030	*48,400	*21.51

Minimum daily, 22 ft³/s, Oct. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	80	537	355	6470	1670	634	274	152	87	41	28
2	25	75	4170	502	10100	1450	586	1080	148	83	40	28
3	25	69	3490	1580	11500	1300	548	1300	144	79	40	27
4	25	67	1690	1310	7710	1180	518	881	160	78	39	27
5	25	64	2040	3890	4950	1120	494	727	168	77	38	27
6	24	61	2130	2920	3430	1030	469	772	168	75	38	27
7	24	58	3960	1900	2690	6310	444	829	161	73	38	27
8	24	56	3170	1520	2190	11200	425	692	153	71	38	26
9	23	67	2470	1250	1870	7820	400	597	146	69	37	26
10	23	130	1820	1050	1660	7160	382	528	141	69	37	24
11	23	161	1420	941	1480	7400	362	473	134	67	36	24
12	23	128	1160	855	2280	7130	366	432	131	64	35	24
13	23	103	979	843	3690	6300	373	395	129	62	34	24
14	23	88	867	1310	6300	4560	329	366	127	60	34	24
15	23	83	780	6630	11900	4520	334	335	125	57	34	34
16	22	129	709	15600	23400	3610	507	312	121	56	33	224
17	22	166	654	11700	35000	2830	543	289	122	55	33	880
18	22	151	608	6640	24000	2290	397	274	138	55	33	522
19	22	126	567	5290	20600	1930	340	259	131	55	32	747
20	95	112	534	4440	13100	1680	310	253	120	54	32	267
21	412	101	504	3200	9170	1530	294	246	113	53	32	157
22	1300	95	480	3120	11700	1330	277	234	111	52	31	116
23	1110	93	458	3920	8040	1250	262	221	108	50	31	97
24	451	179	438	2810	4920	1310	250	210	104	50	31	126
25	266	339	418	2370	3470	1070	248	203	102	50	30	172
26	193	268	407	2030	2780	975	246	196	96	49	29	527
27	155	218	389	1770	2320	900	228	188	95	49	29	715
28	126	761	378	1590	1940	832	220	181	95	48	29	362
29	110	934	367	2630	---	773	210	171	93	45	29	233
30	98	747	365	4970	---	719	199	164	90	45	29	176
31	89	---	356	5100	---	671	---	158	---	44	28	---
TOTAL	4851	5709	38315	104036	238660	93850	11195	13240	3826	1881	1050	5718
MEAN	156	190	1236	3356	8524	3027	373	427	128	60.7	33.9	191
MAX	1300	934	4170	15600	35000	11200	634	1300	168	87	41	880
MIN	22	56	356	355	1480	671	199	158	90	44	28	24
AC-FT	9620	11320	76000	206400	473400	186200	22210	26260	7590	3730	2080	11340

EEL RIVER BASIN

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi downstream from Rice Fork, and 10.2 mi northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi²

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year.

Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville".

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft below National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow type dam storage began in December 1921. Beginning Oct. 1, 1985, capacity based on 1984 resurvey. Usable capacity, 80,556 acre-ft between gate heights 1,822.4 ft, sill of outlet gate and 1,910.0 ft, top of spillway gates; dead storage, 87 acre-ft; spillway at gate height 1,910.0 ft. Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Pottor Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Records were provided by Pacific Gas and Electric Co. in connection with a Federal Energy Regulatory Commission Project, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft, May 13, 16, 1925, gage height, 1,910.8 ft; maximum gage height, 1,911.84 ft, Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft, Dec. 9, 10, 1931, gage height, 1,822.5 ft.

EXTREMES FOR CURRENT YEAR. --Maximum contents, 79,470 acre-ft, Feb. 17, gage height, 1,909.48 ft; minimum, 6,955 acre-ft, Nov. 23, gage height, 1,853.05 ft.

EXTREMES FOR 1985 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--Maximum contents, 83,570 acre-ft, May 13-15, gage height, 1.908.57 ft; minimum, 30.883 acre-ft, Nov. 7, gage height, 1.876.93 ft.

Capacity table (gage height, in feet, and contents, in acre-ft)

OCT. 1, 1984 to SEP. 30, 1985							
1,822.4	397	1,840	3,986	1,865	19,050	1,890	48,415
1,824	534	1,845	6,084	1,870	23,525	1,895	56,654
1,827	864	1,850	8,693	1,875	28,720	1,900	65,761
1,830	1,314	1,855	11,783	1,880	34,537	1,905	75,833
1,835	2,406	1,860	15,180	1,885	41,072	1,910	86,785

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49011	31183	67305	63634	50112	64273	69675	82860	81772	75833	63708	53807
2	48367	31403	66857	63372	49600	63934	71686	82949	81684	75453	63301	53555
3	47749	32093	66917	63077	49074	63429	73738	82994	81662	75011	62894	53153
4	47137	31881	66838	62745	48540	62930	75727	83038	81596	74780	62487	52509
5	46510	31367	66704	62263	47965	62838	76740	83082	81574	74362	62080	51902
6	45775	31068	66531	61823	47353	62652	77607	83126	81552	74112	61673	51315
7	45136	30883	66395	61563	47857	62560	78248	83238	81422	73550	61266	50640
8	44694	30929	66278	61235	59484	62263	78916	83326	81422	73366	60859	50160
9	44054	31333	66259	60909	61639	62079	79285	83460	81443	72954	60455	49808
10	43369	32505	66433	60509	63151	62616	79590	83490	81356	72582	60059	49488
11	42769	35909	66917	60095	63953	63096	79720	83520	81290	72182	59717	48980
12	42343	39703	66724	59627	64841	63300	80114	83550	81204	71848	59217	47797
13	41697	47566	66471	59253	65702	63486	80374	83570	81072	71768	58789	47491
14	41044	50384	66377	58861	66076	63540	80506	83570	80768	71120	58383	46831
15	40655	51445	66145	58330	66145	63522	80417	83570	80418	70678	57975	46180
16	40247	53723	66164	57783	66221	63262	80396	83526	80222	70456	57573	45670
17	40001	55280	66086	57590	66145	63152	80614	83482	80004	70095	57504	45092
18	39347	57174	66067	57120	66067	63096	81028	83304	79634	69815	57174	44477
19	38695	58365	65780	56688	66029	63002	81290	82949	79328	69355	56446	43870
20	38085	59111	65723	56237	65933	62773	81312	82860	79068	69075	56315	43212
21	37471	59467	65664	55741	65875	62560	81596	82838	78721	68639	56184	42683
22	37057	59681	65472	55280	65761	62337	81906	82860	78421	68225	56053	42073
23	36439	59789	65243	54804	65645	62007	82350	82594	78033	67677	55922	41350
24	35819	64330	65070	54261	65491	61785	81751	82505	77778	67305	55793	40655
25	35118	65857	64956	53823	65337	61657	81707	82416	77457	66857	55741	40247
26	34485	66164	64956	53253	65127	61545	81951	82350	77162	66471	55656	39363
27	33908	70035	64898	52755	64898	62614	82283	82238	76972	66125	55314	38736
28	33303	69275	64614	52295	64614	63672	82328	82038	76719	65625	55144	38032
29	32683	68342	64425	51771	---	64803	82416	81950	76613	65125	54855	37679
30	32483	67637	64179	51200	---	66145	82660	81928	76255	64625	54804	37096
31	31881	---	63896	50624	---	67558	---	81862	---	64122	54430	---
MAX	49011	70035	67305	63634	66221	67558	82660	83570	81772	75833	63708	53807
MIN	31881	30883	63896	50624	47353	61545	69675	81862	76255	64122	54430	37096
a	1877.79	1900.97	1899.55	1891.39	1899.40	1900.93	1908.16	1907.80	1905.20	1899.14	1893.70	1882.03
b	-17559	+35756	-3741	-13272	+13990	+2944	+15102	-798	-5607	-12133	-9692	-17334

EEL RIVER BASIN

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA--Continued

OCT. 1, 1985 to SEP. 30, 1986

1,822.4	87	1,840	2,463	1,865	13,701	1,890	41,811
1,824	153	1,845	3,931	1,870	17,664	1,895	50,179
1,827	333	1,850	5,710	1,875	22,451	1,900	59,469
1,830	626	1,855	7,831	1,880	28,071	1,905	69,675
1,835	1,371	1,860	10,456	1,885	34,474	1,910	80,643

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29914	12590	15000	19166	63191	61125	60590	70119	71421	66465	58305	49786
2	29477	12061	16767	19160	64900	61026	60649	70459	71401	66258	58073	49610
3	28861	11517	23509	18362	64431	60966	61026	70672	71274	66032	57769	49434
4	28191	10932	24991	18452	63010	60788	61264	70805	71234	65702	57497	48996
5	27591	10485	25725	19437	62204	60629	61603	70952	71234	65496	57307	48794
6	26941	9856	26357	20065	61603	60609	61923	71234	71146	65270	56966	48473
7	26308	9308	26648	20345	61224	63090	62425	71254	70952	65023	56736	48359
8	25897	8784	27651	20443	61006	66075	62465	71381	70845	64818	56358	47954
9	25441	8784	28131	20443	60788	64553	62828	71448	70652	64471	56075	47629
10	24823	8657	28071	20394	60590	64920	62868	71508	70502	64227	55793	47392
11	23942	8532	28071	20325	60431	64675	63050	71528	70352	64023	55499	47051
12	23509	8457	27771	20162	62465	63798	63617	71528	70246	63657	55252	46861
13	22712	8164	27413	20035	63191	63232	63860	71488	70059	63596	54900	46521
14	21985	7996	27058	20142	71421	62626	64471	71468	69867	63232	54694	46204
15	21274	7692	26823	21954	71555	62808	64880	71448	69675	62989	54364	45995
16	20559	7600	26184	35309	73826	62606	65476	71421	69635	62787	54140	45827
17	19853	7500	25725	44097	79470	62063	65908	71468	69423	62425	53924	45656
18	19333	7239	25272	48090	71528	61803	66385	71488	69166	62063	53740	45430
19	19286	7021	24823	50393	70485	61603	66549	71488	69020	61823	53466	45346
20	18552	7042	24051	51979	67297	61583	66944	71683	68704	61583	53386	45200
21	18417	7020	23456	52877	65250	61224	67361	71683	68513	61384	53040	45014
22	17777	6977	22765	53682	64023	61185	67590	71635	68368	61046	52837	44704
23	17447	6955	22817	54920	63212	61165	67988	71635	68093	60966	52593	44150
24	17020	7463	21923	55666	62787	61006	68408	71663	67968	60491	52391	43523
25	16517	8517	21373	56229	62204	60926	69040	71663	67694	60393	51839	42960
26	15905	8682	20773	56418	61823	60768	69231	71615	67550	59939	51608	42721
27	15467	8733	20142	56756	61623	60629	69463	71615	67485	59821	51408	42462
28	14847	9884	19806	56871	61404	60669	69695	71575	67173	59411	51070	42087
29	14136	13102	19380	60373	---	60689	69907	71488	66924	59234	50841	41616
30	13701	14284	19351	62485	---	60649	70079	71488	66697	58865	50494	41139
31	13136	---	19174	63697	---	60609	---	71488	---	58635	50308	---
MAX	29914	14284	28131	63697	79470	66075	70079	71683	71421	66465	58305	49786
MIN	13136	6955	15000	18362	60431	60609	60590	70119	66697	58635	50308	41148
a	1864.20	1865.80	1871.68	1902.12	1900.98	1900.58	1905.19	1905.85	1903.58	1899.57	1895.07	1889.57
b	-20032	+1148	+4890	+44523	-2293	-795	+9470	+1409	-4791	-8062	-8327	-9169

CAL YR 1985 b -38382

WTR YR 1986 b +7971

a Gage height, in feet, at end of month.

b Change in storage, in acre-feet.

Note.--New capacity table put into use on Oct. 1, 1985; change in contents for October 1985, calendar year 1985 and water year 1986 based on new table.

EEL RIVER BASIN

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'29", in SE 1/4 sec.15, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, on left bank 0.4 mi upstream from Soda Creek, 0.7 mi downstream from Scott Dam, and 9.7 mi northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi².

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

REVISED RECORDS.--WSP 1315-B; 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,740 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi upstream. No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--64 years, 570 ft³/s, 413,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s, Dec. 22, 1964, gage height, 24.24 ft, from floodmarks, from rating curve extended above 9,400 ft³/s on basis of computed flow over Scott Dam at gage heights 18.50 ft and 21.85 ft; minimum daily, 0.1 ft³/s, Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,500 ft³/s, Feb. 17, gage height, 20.70 ft; minimum daily, 38 ft³/s, Aug. 19.

EXTREMES FOR 1985 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--Maximum discharge, 4,730 ft³/s, Nov. 28, gage height, 10.31 ft; minimum daily, 71 ft³/s, Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES (NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	324	1190	347	412	393	136	104	100	173	204	133
2	313	318	997	345	415	392	154	104	97	172	204	133
3	313	311	1090	345	414	392	225	103	96	172	204	216
4	320	324	903	364	406	392	227	102	96	171	206	309
5	326	320	801	394	405	381	252	102	96	170	204	311
6	330	320	712	397	405	370	290	102	96	169	203	313
7	333	322	645	409	414	377	307	101	96	171	203	313
8	328	290	587	408	141	369	311	101	96	173	202	313
9	330	287	534	400	145	369	339	101	96	172	202	309
10	330	253	692	396	242	331	339	100	96	174	200	303
11	337	232	864	388	302	343	333	100	96	178	200	300
12	328	212	783	391	277	334	328	100	96	175	200	305
13	322	176	699	396	277	325	326	100	96	173	199	309
14	317	259	613	397	409	337	326	99	143	171	199	307
15	322	245	564	407	467	359	328	96	170	168	189	305
16	328	227	534	415	470	360	330	111	169	166	164	305
17	328	282	476	410	453	368	194	155	164	164	143	305
18	320	234	455	408	426	373	106	225	157	186	143	307
19	330	267	430	408	400	373	174	239	158	202	100	307
20	333	275	411	407	371	377	200	101	160	199	71	307
21	340	319	407	410	356	385	116	94	159	201	82	311
22	334	340	393	414	357	388	96	101	158	202	77	309
23	333	346	390	413	358	389	221	106	159	204	77	307
24	333	147	378	412	364	387	348	106	162	208	81	307
25	335	309	375	412	374	385	222	106	134	200	81	305
26	346	558	380	412	382	395	102	105	111	192	81	305
27	346	1460	370	414	387	354	103	105	116	197	81	305
28	350	4280	356	416	392	288	103	105	147	206	81	303
29	348	2560	355	415	---	249	103	105	174	205	121	303
30	350	1590	354	413	---	235	104	105	173	205	133	300
31	348	---	347	414	---	208	---	104	---	205	133	---
TOTAL	10275	17387	18085	12377	10221	10978	6743	3488	3867	5724	4668	8765
MEAN	331	580	583	399	365	354	225	113	129	185	151	292
MAX	350	4280	1190	416	470	395	348	239	174	208	206	313
MIN	313	147	347	345	141	208	96	94	96	164	71	133
AC-FT	20380	34490	35870	24550	20270	21770	13370	6920	7670	11350	9260	17390

CAL YR 1984 TOTAL 149553 MEAN 409 MAX 4280 MIN 70 AC-FT 296600
WTR YR 1985 TOTAL 112578 MEAN 308 MAX 4280 MIN 71 AC-FT 223300

EEL RIVER BASIN

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	308	102	252	3840	1240	724	164	122	127	132	133
2	305	307	113	252	4870	1100	522	166	124	127	131	133
3	311	308	112	251	5340	991	390	167	123	128	131	132
4	307	307	166	244	3810	907	392	169	122	131	131	132
5	311	309	242	214	2490	843	404	170	120	131	131	132
6	313	309	285	191	1790	788	367	172	120	131	131	133
7	311	309	341	222	1380	1490	365	172	125	131	133	136
8	309	205	322	225	1100	6370	381	173	130	130	135	140
9	307	89	308	225	919	5150	382	173	129	130	135	140
10	305	89	330	224	796	4990	360	173	128	130	135	140
11	303	89	363	224	711	4740	282	173	135	131	135	140
12	300	107	385	224	1120	4220	175	174	134	131	135	140
13	298	142	398	227	3720	3430	174	174	131	130	135	140
14	303	141	401	232	8920	2770	146	174	131	129	135	140
15	311	140	399	235	18500	2540	108	181	131	140	135	140
16	309	139	402	126	16700	2560	108	172	131	149	135	140
17	307	139	408	117	33900	2160	105	146	131	141	134	141
18	303	123	413	111	23500	1790	107	130	130	137	108	141
19	300	100	422	110	15900	1580	109	127	129	130	38	116
20	292	80	431	200	11200	1490	110	127	129	130	65	95
21	242	59	455	297	6800	1400	112	126	129	130	131	95
22	294	61	445	320	4640	1330	113	124	129	130	133	210
23	288	61	434	306	3520	1240	111	125	129	129	134	326
24	300	65	431	306	2820	1190	105	125	129	129	134	331
25	303	68	429	326	2280	1110	105	124	128	130	134	322
26	307	80	427	352	1890	1020	106	122	128	131	134	296
27	309	81	343	353	1620	963	106	121	128	131	134	279
28	307	86	255	353	1410	872	107	121	128	130	134	283
29	307	90	254	347	---	819	108	121	128	130	133	252
30	308	94	253	2170	---	806	134	121	128	130	133	252
31	307	---	253	3080	---	764	---	120	---	132	133	---
TOTAL	9377	4485	10322	12316	185486	62663	6818	4627	3839	4076	3947	5330
MEAN	302	150	333	397	6625	2021	227	149	128	131	127	178
MAX	313	309	455	3080	33900	6370	724	181	135	149	135	331
MIN	242	59	102	110	711	764	105	120	120	127	38	95
AC-FT	18600	8900	20470	24430	367900	124300	13520	9180	7610	8080	7830	10570
CAL YR 1985	TOTAL	91015	MEAN	249	MAX	470	MIN	59	AC-FT	180500		
WTR YR 1986	TOTAL	313286	MEAN	858	MAX	33900	MIN	38	AC-FT	621400		

EEL RIVER BASIN

11471000 POTTER VALLEY POWERHOUSE INTAKE NEAR POTTER VALLEY, CA

LOCATION (REVISED).--Lat 39°22'00", long 123°07'35", in SW 1/4 SW 1/4 sec.31, T.18 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, in penstock of powerhouse of Pacific Gas and Electric Co., 1.5 mi southwest of Van Arsdale Dam, and 3.2 mi northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s Trailrace near Potter Valley. October 1931 to September 1984, published as Potter Valley Powerhouse Trailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950.

GAGE.--Acoustic flowmeter in penstock of powerhouse. Elevation of gage is 1,440 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 11, 1985, water-stage recorder and Farshall flume. See WSP 1929 Part 11, Vol.2 for history of changes prior to April 12, 1950.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--76 years (water years 1911-86), 204 ft³/s, 147,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 351 ft³/s, Oct. 31, 1982; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	318	318	241	318	318	318	89	88	156	209	146
2	318	318	318	241	318	318	318	89	88	157	215	144
3	318	318	318	237	318	318	318	91	87	161	212	253
4	318	318	318	246	318	302	318	95	84	162	200	318
5	318	272	318	318	318	318	318	92	83	161	202	318
6	318	284	318	318	318	318	318	89	81	163	206	318
7	318	318	318	318	260	318	286	86	82	165	207	318
8	318	318	318	318	201	318	250	87	81	168	208	318
9	318	295	318	318	318	318	238	87	82	167	213	318
10	318	318	318	318	318	318	318	87	81	164	207	318
11	318	318	318	319	318	318	318	89	84	163	205	318
12	318	318	318	318	318	318	318	89	85	161	204	318
13	318	318	318	318	318	318	300	88	85	161	200	318
14	318	318	318	318	318	318	318	89	98	162	198	318
15	318	318	318	318	318	318	318	89	156	163	189	318
16	318	313	318	318	318	318	318	90	156	164	176	318
17	318	318	318	318	318	318	196	89	157	164	152	318
18	318	318	318	318	318	318	38	87	176	174	159	318
19	318	304	318	318	318	318	37	87	175	194	150	318
20	318	312	318	318	318	318	37	32	164	193	92	318
21	318	309	318	318	318	318	37	4.8	161	193	91	318
22	318	318	318	318	318	318	35	2.2	165	194	76	318
23	318	318	299	318	318	318	110	4.8	171	196	79	318
24	302	318	267	318	318	318	318	6.6	170	194	83	318
25	318	318	257	318	318	318	199	11	158	197	83	318
26	318	318	257	318	303	318	73	6.9	118	203	79	318
27	318	246	257	318	318	318	77	14	101	195	79	318
28	318	208	257	318	318	318	79	17	120	200	13	318
29	318	318	257	318	---	318	86	9.1	164	203	76	318
30	318	318	257	318	---	318	89	15	160	201	162	318
31	318	---	249	318	---	318	---	47	---	206	133	---
TOTAL	9763	9221	9353	9552	8714	9842	6301	1859.4	3661	5505	4758	9129
MEAN	315	307	302	308	311	317	210	60.0	122	178	153	304
MAX	318	318	318	319	318	318	318	95	176	206	215	318
MIN	239	208	249	237	201	302	35	2.2	81	156	13	144
AC-FT	19360	18290	18550	18950	17280	19520	12500	3690	7260	10920	9440	18110

CAL YR 1984 TOTAL 84336.0 MEAN 231 MAX 318 MIN 46 AC-FT 167,300
WTR YR 1985 TOTAL 87658.4 MEAN 240 MAX 319 MIN 2.2 AC-FT 173,900

EEL RIVER BASIN

11471000 POTTER VALLEY POWERHOUSE INTAKE NEAR POTTER VALLEY, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	318	136	156	192	311	320	83	124	127	129	127
2	318	318	290	156	203	312	320	83	125	127	129	127
3	318	318	290	156	247	313	316	83	125	125	129	127
4	318	318	221	156	311	312	320	83	126	126	129	126
5	318	318	318	156	311	313	320	84	122	127	130	126
6	318	318	267	156	311	314	320	87	126	127	130	126
7	318	318	318	156	312	310	322	87	126	127	128	125
8	318	224	318	156	314	284	322	89	126	127	127	127
9	318	97	318	156	315	313	320	91	127	127	127	129
10	318	102	299	154	315	314	321	90	127	126	126	130
11	308	94	318	154	315	315	289	90	126	127	126	131
12	318	98	314	154	315	314	155	87	126	127	126	135
13	318	146	315	156	291	314	156	87	127	128	126	135
14	318	150	314	174	216	315	146	91	125	126	127	135
15	252	151	314	292	230	316	97	113	125	127	127	135
16	235	153	307	189	309	316	101	127	125	127	127	135
17	318	151	301	311	233	315	106	127	124	127	127	142
18	313	143	305	312	0	314	105	126	127	125	100	145
19	318	108	314	282	0	315	103	126	129	126	38	137
20	318	84	149	238	0	317	104	126	129	125	40	92
21	251	45	32	316	141	318	109	125	130	125	121	86
22	316	42	49	318	311	318	111	124	130	125	127	138
23	321	50	316	318	311	318	106	124	128	129	126	303
24	315	140	317	312	311	318	99	124	126	127	126	306
25	318	121	315	315	311	319	96	125	126	126	126	308
26	318	62	311	315	312	320	93	125	124	126	126	308
27	318	49	258	315	312	319	93	125	125	126	125	308
28	318	155	157	314	311	319	92	124	126	126	123	306
29	315	205	157	315	---	320	92	125	126	129	124	291
30	318	160	157	303	---	319	89	123	127	129	127	274
31	318	---	156	287	---	319	---	122	---	128	127	---
TOTAL	9622	4956	7951	7248	7060	9754	5543	3326	3785	3927	3726	5220
MEAN	310	165	256	234	252	315	185	107	126	127	120	174
MAX	321	318	318	318	315	320	322	127	130	129	130	308
MIN	235	42	32	154	0	284	89	83	122	125	38	86
AC-FT	19090	9830	15770	14380	14000	19350	10990	6600	7510	7790	7390	10350
CAL YR 1985	TOTAL	81850.4	MEAN 224	MAX 321	MIN 2.2	AC-FT 162400						
WTR YR 1986	TOTAL	72118.0	MEAN 198	MAX 322	MIN 0	AC-FT 143000						

EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE 1/4 sec.30, T.18 N., R.11 W, Mendocino County, Hydrologic Unit 18010103, on left bank, 1,000 ft downstream from Van Arsdale Dam, and 4.6 mi north of town of Potter Valley.

DRAINAGE AREA.--349 mi².

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

REVISED RECORDS.--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above National Geodetic Vertical Datum of 1929, from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 11 mi upstream. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (station 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE (adjusted for diversion to Potter Valley powerhouse).--77 years (water years 1910-86), 670 ft³/s, 485,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft³/s, Dec. 22, 1964, gage height, 33.9 ft from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51,300 ft³/s, Feb. 17, gage height, 30.46 ft; minimum daily, 4.1 ft³/s, Jun. 2.

EXTREMES FOR 1985 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--Maximum discharge, 6,290 ft³/s, Nov. 28, gage height, 13.72 ft; minimum daily, 3.6 ft³/s, Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES (NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	4.8	1340	115	99	109	204	44	13	6.4	5.3	6.3
2	10	215	995	116	102	109	127	43	6.1	6.7	4.8	7.1
3	9.7	70	1050	113	99	105	170	40	6.2	6.7	4.4	7.8
4	8.2	28	950	117	98	121	121	38	8.6	7.3	4.4	7.9
5	8.2	32	793	117	99	116	104	38	7.7	8.5	4.4	8.0
6	7.7	76	663	117	100	116	105	40	9.8	8.5	4.4	8.6
7	7.2	55	532	133	575	141	131	42	5.8	8.3	4.4	9.4
8	7.7	153	431	136	1870	124	128	40	7.8	8.2	4.4	9.9
9	10	54	355	130	306	121	148	40	8.3	7.8	4.4	11
10	23	277	489	130	189	252	110	40	7.4	7.5	4.4	11
11	14	274	814	128	181	192	99	40	5.0	7.2	4.4	11
12	9.1	380	747	124	136	166	91	40	5.7	6.6	4.4	10
13	11	714	602	122	105	123	88	40	5.6	6.5	4.3	10
14	7.9	197	470	117	188	109	80	38	5.7	6.5	4.3	10
15	7.2	197	412	115	253	120	78	33	6.8	6.1	4.3	10
16	21	187	372	104	261	115	77	28	6.0	6.2	4.3	10
17	12	180	291	101	241	112	89	86	6.0	6.9	4.3	6.7
18	8.6	245	230	101	201	113	122	152	6.0	6.7	4.3	6.7
19	5.2	116	181	101	168	113	176	229	6.0	6.5	4.3	6.7
20	4.2	119	153	100	131	108	270	133	6.0	6.5	4.1	6.7
21	7.1	118	125	95	110	110	171	123	6.0	6.5	3.6	6.7
22	7.7	104	118	97	105	110	129	121	6.0	6.5	3.9	6.7
23	6.0	119	111	98	101	110	99	120	6.0	6.5	4.1	6.6
24	15	551	115	93	101	126	49	121	6.0	6.5	4.2	6.5
25	4.0	184	120	96	104	110	54	122	6.0	6.5	4.6	6.5
26	5.1	384	124	94	123	209	54	122	6.0	6.5	4.6	6.5
27	4.7	1340	122	96	109	372	54	120	6.0	7.2	7.1	6.5
28	12	5570	115	95	114	254	53	117	5.9	5.3	7.0	6.5
29	12	3190	113	110	---	223	48	121	5.7	5.3	28	6.4
30	7.7	1890	112	105	---	205	44	116	5.8	5.3	7.0	6.3
31	5.0	---	112	97	---	257	---	72	---	5.3	5.9	---
TOTAL	287.6	17023.8	13157	3413	6269	4671	3273	2499	198.9	209.0	168.3	240.0
MEAN	9.28	567	424	110	224	151	109	80.6	6.63	6.74	5.43	8.00
MAX	23	5570	1340	136	1870	372	270	229	13	8.5	28	11
MIN	4.0	4.8	111	93	98	105	44	28	5.0	5.3	3.6	6.3
AC-FT	570	33770	26100	6770	12430	9260	6490	4960	395	415	334	476

EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	7.5	58	125	4870	1380	533	125	4.8	5.5	6.7	6.7
2	5.7	11	530	120	6430	1190	358	144	4.1	5.5	6.7	6.4
3	5.7	11	228	118	7680	1050	174	144	4.4	7.7	6.7	6.4
4	5.7	10	65	136	4990	921	133	139	4.5	15	6.7	6.4
5	5.8	11	97	172	3020	839	158	143	8.9	14	6.7	6.4
6	6.0	10	91	147	2120	780	121	146	4.8	8.0	6.7	6.8
7	6.1	11	201	129	1620	1790	115	144	4.8	8.5	6.2	5.5
8	6.1	11	180	128	1230	7840	113	137	13	8.1	5.6	5.5
9	6.1	11	105	118	952	6640	125	123	13	8.1	5.8	6.0
10	6.0	18	98	114	750	6460	96	113	11	7.6	5.8	6.4
11	6.1	12	94	114	607	6230	87	100	14	7.7	5.8	6.6
12	6.0	12	102	110	1130	5400	87	104	21	6.9	6.0	6.4
13	5.9	21	107	108	4470	4240	86	110	14	6.7	6.3	6.9
14	6.0	12	108	118	10700	3250	79	105	14	11	6.7	6.3
15	6.1	12	107	207	24000	2950	68	79	14	11	6.8	6.4
16	11	16	105	2000	22900	2920	76	61	14	13	7.1	6.4
17	12	14	114	1220	45800	2470	63	40	14	8.2	7.1	7.0
18	11	13	114	325	33200	2050	56	19	14	7.7	9.4	7.1
19	10	10	114	141	22600	1730	58	12	11	12	9.2	7.9
20	8.7	13	310	151	16400	1540	58	11	8.7	8.9	8.7	6.2
21	9.3	7.6	493	149	10100	1400	53	11	8.3	6.7	8.1	8.2
22	16	8.9	479	142	6810	1310	46	9.9	7.7	6.7	7.4	6.4
23	6.7	11	120	226	4890	1190	50	9.4	8.1	6.8	7.1	6.4
24	7.2	34	115	157	3580	1130	46	8.9	10	6.7	6.8	6.7
25	6.1	38	111	135	2750	1030	50	8.9	10	6.7	6.4	7.1
26	6.8	49	110	146	2250	923	51	6.4	9.0	6.7	6.4	7.6
27	7.1	56	110	136	1880	846	52	5.5	7.8	6.7	6.7	13
28	8.2	152	118	124	1580	742	51	4.2	6.5	6.7	6.7	8.2
29	9.2	415	120	302	---	636	49	4.4	5.5	6.7	6.7	7.6
30	8.8	61	125	2150	---	631	60	4.8	5.5	6.7	6.7	9.6
31	6.2	---	125	3610	---	589	---	5.8	---	6.7	6.7	---
TOTAL	233.3	1079.0	4954	13078	249309	72097	3152	2078.2	290.4	254.9	212.4	210.5
MEAN	7.53	36.0	160	422	8904	2326	105	67.0	9.68	8.22	6.85	7.02
MAX	16	415	530	3610	45800	7840	533	146	21	15	9.4	13
MIN	5.7	7.5	58	108	607	589	46	4.2	4.1	5.5	5.6	5.5
AC-FT	463	2140	9830	25940	494500	143000	6250	4120	576	506	421	418
CAL YR 1985	TOTAL	27207.5	MEAN	74.5	MAX	1870	MIN	3.6	AC-FT	53970		
WTR YR 1986	TOTAL	346948.7	MEAN	951	MAX	45800	MIN	4.1	AC-FT	688200		

EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW 1/4 SW 1/4 sec.32, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,100 ft upstream from Outlet Creek, and 6.3 mi south of Dos Rios.

DRAINAGE AREA.--528 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,001.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good except discharges below 9.0 ft³/s, which are fair. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--20 years, 1,015 ft³/s, 735,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,100 ft³/s, Feb. 17, 1986, gage height, 35.54 ft, from rating curve extended above 26,000 ft³/s on basis of slope-area measurement of peak flow; no flow many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft from information by local resident, discharge, 100,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70,100 ft³/s, Feb. 17, gage height, 35.54 ft; minimum daily, 2.8 ft³/s, Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	12	294	130	4870	1850	741	130	36	19	6.3	5.7
2	7.2	12	2860	129	7480	1610	661	190	34	17	6.0	5.7
3	6.4	11	1960	127	9290	1430	411	229	35	15	5.0	5.7
4	6.6	11	717	157	5920	1260	334	212	34	13	5.3	5.7
5	6.6	13	832	604	3510	1140	338	205	34	11	5.0	5.7
6	6.1	13	626	649	2390	1010	319	238	34	14	5.0	5.7
7	5.7	13	1060	367	1790	3320	299	257	41	18	4.3	5.1
8	5.7	13	918	281	1430	12600	280	220	37	15	3.8	4.3
9	5.7	16	571	223	1160	9330	269	198	34	14	3.8	4.1
10	6.3	30	383	191	953	9250	253	184	42	13	3.8	4.2
11	6.6	39	298	171	799	9000	223	175	41	13	3.6	4.8
12	6.6	34	240	159	1230	7410	212	170	37	11	3.2	5.0
13	6.6	26	205	149	3940	5780	210	169	41	10	2.8	5.7
14	6.6	24	183	414	10900	4500	201	161	44	10	3.7	6.1
15	6.6	27	167	1740	29800	4610	195	155	39	6.7	3.8	8.4
16	6.6	27	149	7550	32700	4440	203	135	38	5.7	4.8	13
17	6.6	31	144	5430	62900	3570	239	123	38	6.3	5.0	30
18	6.6	31	143	2130	43200	2910	193	105	38	6.6	4.5	36
19	10	27	136	1260	31700	2470	176	84	38	10	5.5	40
20	15	24	130	900	22000	2190	165	75	35	7.8	7.4	31
21	41	21	363	687	12700	1980	157	71	27	7.7	7.7	21
22	46	20	376	616	8050	1820	146	70	27	7.2	7.7	16
23	49	21	261	1100	5800	1710	138	67	24	6.0	7.7	16
24	40	70	126	817	4430	1620	135	62	22	5.4	7.2	18
25	24	216	121	617	3550	1520	135	58	19	5.7	5.7	20
26	17	101	119	521	2900	1380	135	57	21	5.7	5.4	74
27	15	76	117	457	2480	1240	133	55	22	5.7	5.0	139
28	13	835	116	401	2130	1130	129	49	22	6.6	5.4	66
29	12	2380	120	1010	---	924	126	45	23	5.3	5.7	35
30	12	692	138	2500	---	886	121	43	21	4.3	5.7	23
31	12	---	135	3920	---	823	---	39	---	4.3	5.7	---
TOTAL	424.0	4866	14008	35407	320002	104713	7277	4031	978	300.0	161.5	659.9
MEAN	13.7	162	452	1142	11430	3378	243	130	32.6	9.68	5.21	22.0
MAX	49	2380	2860	7550	62900	12600	741	257	44	19	7.7	139
MIN	5.7	11	116	127	799	823	121	39	19	4.3	2.8	4.1
AC-FT	841	9650	27780	70230	634700	207700	14430	8000	1940	595	320	1310
CAL YR 1985	TOTAL	76516.8	MEAN	210	MAX	7790	MIN	1.0	AC-FT	151800		
WTR YR 1986	TOTAL	492827.4	MEAN	1350	MAX	62900	MIN	2.8	AC-FT	977500		

EEL RIVER BASIN

11472200 OUTLET CREEK NEAR LONGVALE, CA

LOCATION.--Lat 39°37'05", long 123°21'20", in NE 1/4 sec.1, T.20 N., R.14 W., Mendocino County, Hydrologic Unit 18010103, on right bank 0.2 mi downstream from Bloody Run Creek, 0.9 mi upstream from mouth, and 6.9 mi northeast of Longvale.

DRAINAGE AREA.--161 mi².

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good except for discharges below 2.0 ft³/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--30 years, 432 ft³/s, 313,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft³/s, Dec. 22, 1964, gage height, 30.6 ft, from floodmarks, from rating curve extended above 17,000 ft³/s on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, 1977, and 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1600	9,270	11.69	Mar. 8	0215	11,000	12.66
Feb. 17	1130	*31,200	*22.08				

Minimum daily, 0.03 ft³/s, Sept. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.2	374	52	2340	342	135	37	12	2.7	.46	.24
2	1.3	2.9	2950	62	4580	294	125	65	11	2.6	.42	.27
3	1.3	2.9	1790	58	4530	259	119	96	12	2.4	.36	.23
4	1.3	2.5	851	127	2530	232	114	74	12	2.3	.29	.19
5	1.3	2.4	1000	730	1510	211	109	71	12	2.3	.25	.19
6	1.1	2.4	718	565	895	189	104	113	13	2.1	.22	.16
7	1.0	2.4	1310	327	579	2360	105	139	14	2.2	.22	.12
8	1.1	2.4	928	218	450	6720	102	92	13	1.9	.21	.08
9	1.1	2.8	592	164	372	3430	97	70	12	1.9	.18	.06
10	1.1	16	383	133	309	3930	91	58	11	1.7	.17	.04
11	1.1	34	269	113	270	3700	83	50	9.8	1.6	.20	.03
12	1.1	20	201	100	796	2610	85	45	8.9	1.5	.19	.03
13	1.1	13	159	91	1610	2080	76	41	7.5	1.3	.17	.08
14	1.1	9.5	131	577	4310	1530	73	37	7.2	1.1	.14	.14
15	1.1	8.2	114	2140	8600	2200	71	34	6.9	1.1	.11	.51
16	1.1	37	99	6090	11000	1910	85	32	6.8	.95	.15	1.9
17	.99	32	86	4380	26200	1330	125	29	8.0	.96	.22	8.8
18	1.1	20	77	2120	12900	886	95	27	8.0	.99	.26	11
19	1.0	14	69	1260	9820	638	79	25	6.9	1.1	.27	11
20	2.1	11	64	747	5910	503	69	24	5.9	1.0	.27	16
21	18	9.6	58	488	3650	412	61	23	5.8	1.1	.27	10
22	37	8.4	53	534	2510	354	57	23	5.5	.92	.27	5.7
23	84	9.7	49	1080	1590	315	53	23	5.1	.83	.24	3.8
24	39	133	46	717	1050	293	50	21	4.4	.77	.22	3.8
25	20	219	43	506	755	257	48	21	3.9	.73	.23	4.8
26	12	81	41	405	593	230	49	20	3.2	.69	.23	57
27	9.0	45	39	338	483	207	46	19	2.8	.71	.21	90
28	6.4	1100	36	287	402	189	43	18	2.8	.65	.17	39
29	5.0	2530	37	1250	---	173	42	17	2.8	.62	.16	20
30	4.2	808	59	1620	---	157	40	16	2.9	.58	.14	14
31	3.4	---	57	2300	---	146	---	15	---	.50	.17	---
TOTAL	261.59	5182.3	12683	29579	110544	38087	2431	1375	237.1	41.80	7.07	299.17
MEAN	8.44	173	409	954	3948	1229	81.0	44.4	7.90	1.35	.23	9.97
MAX	84	2530	2950	6090	26200	6720	135	139	14	2.7	.46	90
MIN	.99	2.4	36	52	270	146	40	15	2.8	.50	.11	.03
AC-FT	519	10280	25160	58670	219300	75550	4820	2730	470	83	14	593

CAL YR 1985 TOTAL 58582.28 MEAN 160 MAX 6120 MIN .19 AC-FT 116200
WTR YR 1986 TOTAL 200728.03 MEAN 550 MAX 26200 MIN .03 AC-FT 398100

EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°19'27", in NE 1/4 SE 1/4 sec.5, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010104, on right bank 0.6 mi upstream from Eastman Creek, 1.7 mi southeast of Dos Rios, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--745 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 901.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 16, 29, 31, Feb. 2, 12-16, Mar. 7, 8. Records good except for estimated daily discharges and discharges below 15 ft³/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 1,730 ft³/s, 1,253,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,100 ft³/s, Feb. 17, 1986, gage height, 27.41 ft; minimum daily, 2.4 ft³/s, Sept. 1, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1530	*93,100	*27.41				

Minimum daily, 8.2 ft³/s Sept. 8-9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	45	1560	445	6470	3310	2160	657	394	58	21	9.7
2	16	43	7210	450	9590	3010	1990	695	377	56	20	9.5
3	16	40	5800	464	9140	2830	1820	967	351	53	20	9.4
4	15	39	2520	642	5930	2700	1690	916	303	51	19	9.1
5	14	38	2280	2030	4580	2550	1570	841	271	50	17	9.0
6	14	36	1780	2100	3850	2400	1520	951	248	48	16	8.9
7	14	34	2580	1310	3310	9000	1580	924	235	47	16	8.5
8	13	33	2480	958	2950	27000	1570	891	213	46	15	8.2
9	12	35	1740	763	2630	10300	1490	820	192	45	15	8.2
10	12	56	1300	643	2390	8450	1410	775	173	44	14	8.3
11	12	91	986	558	2200	7460	1330	731	155	42	14	8.2
12	12	68	782	498	3000	6180	1290	683	143	41	14	8.5
13	13	57	666	456	6950	4720	1240	664	132	39	13	8.9
14	14	51	596	687	11500	3700	1140	655	125	37	13	9.1
15	14	50	542	2620	15000	3590	1080	632	119	35	12	12
16	14	194	490	10600	32000	3410	1070	617	114	34	12	18
17	15	366	455	13600	74000	2820	1120	595	108	33	12	35
18	15	208	435	5700	49900	2420	1050	604	107	32	12	84
19	15	141	434	4110	38000	2360	982	611	106	32	11	97
20	22	106	450	3520	22000	2450	935	592	102	32	11	98
21	79	92	460	2880	13500	2490	953	570	98	31	11	71
22	165	82	437	2500	9580	2500	995	532	93	29	11	59
23	492	79	413	3510	7540	2480	984	495	87	28	11	61
24	430	529	401	2820	6400	2600	922	456	81	27	11	70
25	200	1130	402	2420	5430	2520	867	429	76	25	10	248
26	121	541	402	2180	4630	2410	817	441	71	24	10	717
27	88	314	393	2010	4240	2440	767	441	70	24	10	1780
28	71	1830	374	1930	3710	2480	758	438	67	24	9.9	730
29	60	4680	357	4030	---	2410	728	431	63	24	9.9	511
30	53	2380	438	8190	---	2360	702	415	61	22	9.9	431
31	48	---	495	6300	---	2230	---	404	---	22	9.9	---
TOTAL	2095	13388	39658	90924	360420	137580	36530	19873	4735	1135	410.6	5145.5
MEAN	67.6	446	1279	2933	12870	4438	1218	641	158	36.6	13.2	172
MAX	492	4680	7210	13600	74000	27000	2160	967	394	58	21	1780
MIN	12	33	357	445	2200	2230	702	404	61	22	9.9	8.2
AC-FT	4160	26560	78660	180300	714900	272900	72460	39420	9390	2250	814	10210

CAL YR 1985 TOTAL 224880.5 MEAN 616 MAX 12300 MIN 2.4 AC-FT 446100
WTR YR 1986 TOTAL 711894.1 MEAN 1950 MAX 74000 MIN 8.2 AC-FT 1412000

EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE 1/4 NE 1/4 sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank at downstream side of bridge, 1.0 mi southeast of Fort Seward, 1.9 mi upstream from Dobbyn Creek, and 11.8 mi northeast of Garberville.

DRAINAGE AREA.--2,107 mi².

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.26 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1964, at site 7.5 mi upstream at datum 46.55 ft higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi upstream at datum 49.42 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--31 years, 4,890 ft³/s, 3,543,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s, Dec. 22, 1964, gage height, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft³/s, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0345	69,200	29.10	Feb. 17	1915	*306,000	*59.27
Feb. 3	1815	46,300	24.15	Mar. 8	1145	90,100	32.95

Minimum daily, 18 ft³/s, Sept. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	109	3090	984	29300	8170	3910	907	541	129	39	22
2	34	101	14800	927	36800	7110	3550	1020	514	122	37	21
3	34	97	21300	976	45000	6330	3060	1670	477	117	36	21
4	34	93	8520	1070	33000	5720	2590	1860	450	110	35	21
5	34	90	7310	2440	22600	5180	2350	1660	409	102	34	21
6	34	86	5930	5580	17100	4680	2290	2010	388	97	33	20
7	33	84	6420	3340	13300	11000	2270	2250	370	94	32	20
8	31	84	8660	2290	10500	68500	2250	1890	357	91	30	20
9	28	91	5750	1820	8680	47800	2100	1680	338	88	30	19
10	27	120	3930	1550	7400	39600	1950	1480	319	87	28	19
11	29	185	2960	1370	6350	38800	1820	1380	296	85	28	19
12	29	256	2400	1220	8120	34300	1720	1280	279	81	27	18
13	29	235	2050	1110	22900	26300	1720	1190	264	76	26	18
14	29	183	1830	1450	36300	21000	1580	1140	249	72	26	18
15	29	157	1670	10800	97100	20700	1490	1110	239	68	25	19
16	31	153	1550	29500	115000	20400	1580	1050	233	63	24	38
17	32	295	1430	51100	239000	16400	1820	1000	224	59	24	118
18	34	550	1340	24500	192000	13500	1730	932	220	59	23	304
19	34	381	1270	16000	122000	11500	1500	906	218	57	23	328
20	49	285	1220	12300	87000	10300	1370	898	215	55	22	364
21	114	225	1200	9160	52600	9390	1310	850	210	55	22	259
22	348	190	1410	7570	36200	8680	1330	790	201	53	22	197
23	775	185	1370	12300	26500	7990	1350	732	190	53	22	157
24	921	432	1180	10300	20400	7560	1300	673	177	52	22	157
25	642	1800	1000	7930	16300	7150	1200	632	163	50	22	310
26	376	1600	974	6590	13300	6420	1130	617	151	47	22	1450
27	248	918	949	5780	11200	5920	1060	634	141	44	22	3780
28	185	2660	893	5210	9520	5570	1010	626	138	43	22	1690
29	151	11500	838	9240	---	5110	1000	607	137	41	22	813
30	131	8020	831	27100	---	4630	955	593	133	40	22	513
31	118	---	975	22600	---	4270	---	564	---	39	22	---
TOTAL	4659	31165	115050	294107	1335470	489980	54295	34631	8241	2229	824	10774
MEAN	150	1039	3711	9487	47700	15810	1810	1117	275	71.9	26.6	359
MAX	921	11500	21300	51100	239000	68500	3910	2250	541	129	39	3780
MIN	27	84	831	927	6350	4270	955	564	133	39	22	18
AC-FT	9240	61820	228200	583400	2649000	971900	107700	68690	16350	4420	1630	21370
CAL YR 1985	TOTAL	578033	MEAN	1584	MAX	43500	MIN	11	AC-FT	1147000		
WTR YR 1986	TOTAL	2381425	MEAN	6524	MAX	239000	MIN	18	AC-FT	4724000		

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic benchmark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW 1/4 NE 1/4 sec.29, T.22 N., R.16 W., Mendocino County, Hydrologic Unit 18010106, on right bank 0.2 mi upstream from mouth, and 5.3 mi north of Branscomb.
Raingage No. 1: Lat 39°43'50", long 123°38'07", in NW 1/4 NW 1/4 sec.28, T.22 N., R.16 W., elevation, 1,440 ft at site 0.5 mi east of gaging station.

DRAINAGE AREA.--6.50 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder; crest-stage gage and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: Feb. 22-27. Records good. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--19 years, 27.2 ft³/s, 19,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s, Mar. 29, 1974, gage height, 9.77 ft, from rating curve extended above 660 ft³/s on basis of slope-area measurements at gage heights 9.40 ft and 11.41 ft; minimum daily, 0.27 ft³/s, Sept. 10-15, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft, from floodmarks, discharge, 3,660 ft³/s by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1415	*1480	*8.66				

Minimum daily, 0.60 ft³/s, Oct. 5-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.7	16	6.4	129	40	19	5.9	4.6	2.2	1.2	.80
2	.79	1.7	90	6.3	170	35	18	12	4.5	2.1	1.1	.75
3	.72	1.7	81	6.4	203	31	17	15	4.4	2.1	1.1	.75
4	.72	1.7	44	7.2	170	28	16	12	4.4	2.0	1.1	.70
5	.60	1.6	45	15	130	26	15	12	4.4	2.0	1.1	.70
6	.60	1.5	40	15	90	23	14	15	4.4	1.9	1.0	.70
7	.60	1.5	52	13	69	96	14	17	4.3	1.9	1.0	.70
8	.60	1.5	52	11	55	223	13	16	4.0	1.9	.97	.70
9	.60	2.1	42	10	47	163	12	14	3.8	1.8	.97	.70
10	.60	4.1	35	9.7	41	159	12	12	3.7	1.8	.97	.70
11	.60	3.2	28	9.0	36	183	11	11	3.6	1.8	.97	.70
12	.72	2.5	23	8.7	45	155	10	10	3.5	1.8	.97	.70
13	.72	2.2	20	8.7	68	130	10	9.6	3.4	1.7	.97	.70
14	.67	2.1	17	14	116	105	9.7	9.0	3.3	1.6	.91	.70
15	.66	2.7	15	66	248	111	9.7	8.4	3.3	1.6	.91	1.7
16	.66	3.9	14	170	412	118	12	8.1	3.3	1.5	.91	1.7
17	.66	3.6	12	179	970	93	10	7.6	3.4	1.5	.91	6.1
18	.66	3.2	12	119	364	76	9.1	6.9	3.4	1.6	.91	3.7
19	.66	2.8	11	86	352	65	8.5	6.8	3.3	1.5	.91	3.3
20	2.9	2.6	10	67	308	56	8.1	6.6	3.1	1.5	.85	2.3
21	4.8	2.4	9.4	54	193	49	7.9	6.6	3.0	1.4	.85	1.8
22	9.6	2.4	8.9	52	154	44	7.6	6.5	2.8	1.4	.85	1.5
23	8.1	2.5	8.5	75	130	39	7.3	6.1	2.7	1.4	.85	1.4
24	4.3	5.6	8.1	70	98	34	7.0	5.9	2.6	1.3	.80	2.1
25	3.2	6.5	7.7	59	80	30	6.9	5.7	2.4	1.3	.80	2.5
26	2.6	4.8	7.4	50	64	28	6.8	5.5	2.4	1.3	.80	13
27	2.3	4.3	7.1	42	54	26	6.6	5.5	2.4	1.3	.75	9.0
28	2.1	23	6.8	37	46	24	6.3	5.3	2.4	1.3	.75	4.6
29	2.0	50	6.8	45	---	22	6.1	5.1	2.4	1.3	.78	3.4
30	2.0	25	6.8	62	---	21	5.9	4.9	2.3	1.2	.80	2.8
31	1.9	---	6.3	83	---	20	---	4.6	---	1.1	.80	---
TOTAL	58.43	174.4	742.8	1456.4	4842	2253	316.5	276.6	101.5	50.1	28.56	70.90
MEAN	1.88	5.81	24.0	47.0	173	72.7	10.6	8.92	3.38	1.62	.92	2.36
MAX	9.6	50	90	179	970	223	19	17	4.6	2.2	1.2	13
MIN	.60	1.5	6.3	6.3	36	20	5.9	4.6	2.3	1.1	.75	.70
AC-FT	116	346	1470	2890	9600	4470	628	549	201	99	57	141
a	5.30	7.69	7.37	16.34	32.98	15.00	1.80	3.31	0.14	0.00	0.00	7.45

CAL YR 1985 TOTAL 3715.46 MEAN 10.2 MAX 203 MIN .49 AC-FT 7370
WTR YR 1986 TOTAL 10371.19 MEAN 28.4 MAX 970 MIN .60 AC-FT 20570

a Precipitation, in inches, at raingage no. 1.

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

CHEMICAL DATA: Water years 1968 to current year.

WATER TEMPERATURE: Water years 1968-79.

SEDIMENT DATA: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1967 to September 1979.

SUSPENDED-SEDIMENT DISCHARGE: October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 13...	1200	20	98	7.80	5.5	730	0.60	12.2	101	K1	K20
MAR 26...	1230	28	89	7.40	10.0	725	0.60	10.8	101	K3	K3
JUN 10...	1045	3.8	111	7.80	14.0	720	1.0	9.8	101	K5	48
SEP 11...	1115	0.70	132	8.10	12.5	725	0.50	10.0	99	K3	59
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	CAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L CACO3)
DEC 13...	38	0	9.9	3.3	5.5	23	0.4	0.60	55	0	45
MAR 26...	35	0	9.2	3.0	5.5	25	0.4	0.70	50	0	41
JUN 10...	46	0	12	3.8	6.9	24	0.5	0.80	67	0	55
SEP 11...	53	0	14	4.3	7.9	24	0.5	0.90	76	0	62
DATE	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
DEC 13...	46	4.0	2.6	--	15	--	68	0.09	<0.010	<0.100	<0.010
MAR 26...	41	2.2	2.3	0.10	16	59	64	0.08	<0.010	<0.100	0.010
JUN 10...	54	3.7	2.4	0.10	15	75	78	0.10	<0.010	<0.100	0.010
SEP 11...	61	3.8	3.0	0.10	13	--	84	0.11	<0.010	<0.100	0.070
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
DEC 13...	<0.010	<0.20	0.010	0.020	<0.010	<10	<1	14	<0.5	<1	<1
MAR 26...	0.030	0.20	0.020	0.020	0.020	20	2	23	<0.5	<1	<1
JUN 10...	0.010	<0.20	0.020	0.020	0.020	--	--	--	--	--	--
SEP 11...	0.030	<0.20	0.030	<0.010	0.020	--	--	--	--	--	--

See footnotes at end of table.

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)
DEC 13...	<3	1	8	<1	<4	<1	<0.1	<10	<1	<1	<1
MAR 26...	<3	2	6	<1	<4	<1	<0.1	<10	1	<1	<1
JUN 10...	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--
DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
DEC 13...	96	<6	11	--	--	--	--	--	--	--	--
MAR 26...	94	<6	18	0.6	<0.6	0.5	<0.6	0.4	<0.6	0.02	<0.04
JUN 10...	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	SEDI- MENT, SUS- PENDE (MG/L)
MAR 26...*	1130	1.60	86	7.90	9.5	725	10.2	94	--
MAR 26...*	1150	5.20	86	7.90	9.5	725	10.1	93	--
MAR 26...*	1210	8.80	86	7.90	9.5	725	10.1	93	--
MAR 26...*	1235	12.4	88	7.90	9.5	725	10.2	94	--
MAR 26...*	1250	16.0	87	7.90	9.5	725	10.3	95	--
MAR 26...*	1310	19.6	89	7.90	9.5	725	10.3	95	--
MAR 26...*	1330	23.2	88	7.90	9.5	725	10.0	92	--
SEP 11...*	1035	1.50	132	8.10	12.5	725	10.0	99	0
SEP 11...*	1105	2.60	132	8.10	12.5	725	10.0	99	0
SEP 11...*	1135	4.40	132	8.10	12.5	725	10.1	100	0

*Instantaneous streamflow at the time of cross-sectional measurements: Mar. 26, 28 ft³/s;
Sept. 11, 0.70 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 13...	1200	20	5.5	5	0.27
MAR 26...	1230	28	10.0	4	0.30
JUN 10...	1045	3.8	14.0	2	0.02
SEP 11...	1115	0.70	12.5	0	0.0

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE 1/4 SE 1/4 sec.3, T.23 N., R.17 W., Mendocino County, Hydrologic Unit 18010106, on right bank near Standish Hickey State Park, 0.2 mi upstream from Rock Creek, and 0.7 mi northwest of Leggett.

DRAINAGE AREA.--248 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 693.32 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 18-19. Records good except for period of estimated daily discharge, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 948 ft³/s, 686,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft³/s, Jan. 4, 1966, gage height, 25.4 ft, from floodmarks, from rating curve extended above 21,000 ft³/s on basis of slope-area measurement at gage height 26.13 ft; minimum daily, 7.3 ft³/s, Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft, from floodmarks, discharge, 78,700 ft³/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2145	15,000	11.27	Feb. 17	1715	*47,400	*20.09
Feb. 3	1300	10,500	9.36	Mar. 8	0600	18,100	12.39

Minimum daily, 17 ft³/s, Sept. 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	42	572	136	4570	1190	464	186	120	65	29	24
2	21	41	4310	153	7090	1050	438	321	120	62	33	24
3	21	39	3100	199	8540	942	417	460	118	59	36	23
4	21	39	1460	265	5480	853	398	363	117	55	31	22
5	21	38	1940	803	3530	781	381	371	117	55	31	22
6	21	37	1500	1000	2650	721	369	510	117	53	29	21
7	21	37	2590	663	2170	4300	365	549	117	51	29	20
8	20	36	2210	515	1860	12700	345	438	112	51	29	19
9	19	42	1600	417	1610	6370	331	373	103	51	28	18
10	18	110	1180	353	1440	6250	319	328	103	50	28	18
11	18	138	897	308	1310	6210	303	298	103	48	28	17
12	18	92	719	280	1940	4770	295	275	100	47	28	17
13	18	71	592	263	3110	3860	296	256	97	41	28	17
14	18	61	503	640	5940	2910	280	238	95	43	26	17
15	18	59	431	3300	12500	3830	283	223	95	42	26	31
16	18	107	373	8660	18200	3600	363	216	94	41	26	64
17	18	125	328	7840	36000	2560	374	204	92	41	26	227
18	18	96	294	3720	26000	1990	299	197	94	37	26	159
19	18	79	268	2680	18000	1630	271	184	94	37	26	121
20	35	69	244	2210	12400	1360	256	178	91	37	26	94
21	191	63	223	1830	8740	1140	242	179	87	37	26	70
22	349	58	206	1700	6790	1000	232	173	80	37	26	59
23	497	58	186	2740	4330	904	223	168	77	35	26	54
24	200	216	177	2120	2970	849	217	159	75	34	26	65
25	110	318	167	1790	2250	761	217	157	71	32	25	95
26	78	182	155	1520	1870	699	210	152	67	32	24	338
27	63	137	145	1350	1580	650	200	150	66	32	24	546
28	54	1700	136	1200	1360	604	197	141	66	32	24	206
29	49	2430	131	2080	---	561	192	135	66	31	24	131
30	46	1080	151	3030	---	527	188	128	66	31	24	96
31	43	---	150	3070	---	494	---	122	---	29	24	---
TOTAL	2081	7600	26938	56835	204230	76066	8965	7832	2820	1328	842	2635
MEAN	67.1	253	869	1833	7294	2454	299	253	94.0	42.8	27.2	87.8
MAX	497	2430	4310	8660	36000	12700	464	549	120	65	36	546
MIN	18	36	131	136	1310	494	188	122	66	29	24	17
AC-FT	4130	15070	53430	112700	405100	150900	17780	15530	5590	2630	1670	5230

CAL YR 1985	TOTAL	131914	MEAN	361	MAX	12300	MIN	16	AC-FT	261700
WTR YR 1986	TOTAL	398172	MEAN	1091	MAX	36000	MIN	17	AC-FT	789800

EEL RIVER BASIN

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW 1/4 sec.30, T.3 S., R.4 E., Humboldt County, Hydrologic Unit 18010106, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi upstream from Rocky Glen Creek, 4.3 mi southeast of Miranda, and 20 mi upstream from mouth.

DRAINAGE AREA.--537 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.57 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft upstream at datum 0.8 ft higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharge: Oct. 29 to Nov. 7. Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--47 years, 1,974 ft³/s, 1,430,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s, Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, from rating curve extended above 53,000 ft³/s on basis of slope-area measurement at gage height 42.7 ft; minimum observed, 9 ft³/s, Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0045	40,400	19.73	Feb. 17	1745	*123,000	*38.29
Feb. 3	1930	26,000	16.55	Mar. 8	1200	31,700	19.43

Minimum daily, 18 ft³/s, Oct. 18-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	89	1300	358	10100	2610	959	340	216	122	63	49
2	36	82	6430	384	18900	2300	918	654	217	115	62	49
3	33	76	7230	607	24000	2050	864	971	219	112	58	48
4	33	70	2820	629	15200	1860	820	776	219	107	56	47
5	33	66	3210	1420	8770	1670	780	703	219	103	54	47
6	30	63	2720	2150	5750	1500	750	863	219	102	54	47
7	30	60	3850	1640	4180	7250	740	1100	216	99	54	46
8	29	56	4090	1320	3320	25200	709	935	215	98	54	46
9	25	61	3030	1070	2750	15500	682	735	213	97	53	46
10	25	117	2250	906	2350	12900	646	652	207	94	52	46
11	25	195	1740	821	2070	13100	631	577	198	92	52	46
12	23	184	1410	749	3030	11300	633	529	193	91	51	44
13	22	142	1200	686	6570	9350	620	481	177	88	51	45
14	21	104	989	1150	10200	7190	581	447	113	83	50	44
15	19	104	831	6990	24100	7670	565	420	169	81	50	49
16	19	152	753	20800	45400	8060	710	400	168	79	50	64
17	19	202	678	24700	94400	5780	827	376	165	78	50	569
18	18	197	615	9580	52200	4230	673	349	174	77	50	731
19	18	174	571	6140	36100	3370	594	362	174	76	50	467
20	36	152	534	4740	27000	2770	524	354	166	76	51	276
21	282	141	503	3590	18900	2370	467	350	159	75	50	124
22	641	129	473	3210	15500	2110	474	339	153	73	50	134
23	1140	128	443	5090	10900	1920	437	305	149	73	50	119
24	510	256	419	4080	7670	1820	408	211	142	71	50	193
25	280	511	402	3250	5550	1580	415	251	137	70	50	231
26	202	413	385	2710	4340	1450	396	265	130	70	49	594
27	150	300	367	2320	3550	1350	396	269	128	69	49	1140
28	139	1660	357	2050	3010	1240	370	264	128	68	49	602
29	120	3700	343	3160	---	1140	348	262	128	67	49	373
30	102	2500	349	7030	---	1080	342	253	128	65	49	319
31	99	---	354	5850	---	1010	---	232	---	64	49	---
TOTAL	4195	12084	50646	129180	465810	162730	18279	15025	5239	2635	1609	6635
MEAN	135	403	1634	4167	16640	5249	609	485	175	85.0	51.9	221
MAX	1140	3700	7230	24700	94400	25200	959	1100	219	122	63	1140
MIN	18	56	343	358	2070	1010	342	211	113	64	49	44
AC-FT	8320	23970	100500	256200	923900	322800	36260	29800	10390	5230	3190	13160

CAL YR 1985 TOTAL 270321 MEAN 741 MAX 32800 MIN 12 AC-FT 536200

EEL RIVER BASIN

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW 1/4 NW 1/4 sec.30, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010106, on left bank 0.2 mi downstream from Albee Creek, 4.5 mi northwest of Weott, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--28.1 mi².

PERIOD OF RECORD.--October 1960 to September 1986 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 269.36 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft downstream at datum 8.90 ft lower.

REMARKS.--Estimated daily discharges Jan. 2-6, Feb. 23 to Mar. 1. Records fair. Minor diversions above station for domestic and recreational use.

AVERAGE DISCHARGE.--26 years, 131 ft³/s, 94,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s, Dec. 22, 1964, gage height, 20.6 ft, from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s, Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1600	1,980	7.73	Feb. 17	1930	*4,780	*10.69
Feb. 3	0830	1,930	7.66				

Minimum daily, 0.87 ft³/s, Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	5.2	50	30	772	195	71	28	18	7.4	3.1	1.4
2	1.2	4.8	421	34	1210	165	65	73	18	7.3	3.0	1.2
3	1.0	4.5	220	33	1300	144	61	59	17	7.1	2.9	1.2
4	.93	4.4	141	50	926	126	58	47	17	6.9	2.7	1.1
5	.89	4.2	162	75	683	112	55	49	17	6.9	2.7	1.0
6	.87	4.0	168	105	496	104	52	68	16	6.7	2.6	1.0
7	.90	3.9	198	89	356	405	50	66	15	6.6	2.6	.99
8	.90	4.0	209	79	286	834	47	58	14	6.5	2.5	1.1
9	.99	7.3	176	71	240	744	44	53	14	6.3	2.4	1.1
10	1.0	13	143	65	208	705	42	49	13	6.2	2.3	1.0
11	.90	8.9	121	60	183	835	40	46	13	6.0	2.2	.94
12	.94	7.3	104	57	212	822	44	43	12	5.8	2.1	.99
13	.95	6.3	93	55	265	678	40	41	12	5.5	2.0	1.1
14	.95	5.8	82	105	765	536	37	39	12	5.2	1.9	1.2
15	.93	7.3	73	377	1960	498	39	37	12	5.2	1.8	6.7
16	.90	9.4	66	1230	2370	424	59	35	11	5.1	1.9	30
17	.90	8.7	59	1010	3250	357	50	33	12	5.0	1.8	70
18	.90	8.5	53	776	3390	301	41	32	12	4.9	1.8	48
19	.90	7.7	49	686	2780	256	37	31	11	4.8	1.8	26
20	22	7.2	46	601	1870	221	35	30	10	4.5	1.7	13
21	20	6.8	43	528	1400	197	33	30	10	4.4	1.6	9.5
22	102	6.5	41	518	1260	173	32	28	9.6	4.3	1.6	7.6
23	37	8.3	39	522	1000	161	30	26	9.2	4.1	1.4	7.0
24	18	18	37	464	770	142	29	25	8.8	4.0	1.4	12
25	12	14	35	422	590	125	30	24	8.3	3.9	1.4	15
26	9.6	12	34	379	440	114	27	23	8.0	3.9	1.4	50
27	8.0	14	33	343	340	104	26	22	8.0	3.8	1.3	32
28	6.9	53	32	319	250	96	25	22	8.1	3.8	1.4	18
29	6.4	36	31	475	---	87	24	21	8.0	3.6	1.5	14
30	5.9	27	31	533	---	81	23	19	7.6	3.4	1.5	11
31	5.5	---	30	597	---	75	---	18	---	3.3	1.4	---
TOTAL	271.45	328.0	3020	10688	29572	9817	1246	1175	361.6	162.4	61.7	385.12
MEAN	8.76	10.9	97.4	345	1056	317	41.5	37.9	12.1	5.24	1.99	12.8
MAX	102	53	421	1230	3390	835	71	73	18	7.4	3.1	70
MIN	.87	3.9	30	30	183	75	23	18	7.6	3.3	1.3	.94
AC-FT	538	651	5990	21200	58660	19470	2470	2330	717	322	122	764
CAL YR 1985	TOTAL	14659.1	MEAN	40.2	MAX	421	MIN	.87	AC-FT	29080		
WTR YR 1986	TOTAL	57088.27	MEAN	156	MAX	3390	MIN	.87	AC-FT	113200		

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW 1/4 sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi north of Scotia, and 6 mi upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M).
WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 35.50 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Mar. 2, 3, 13, 14. Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--76 years, 7,529 ft³/s, 5,455,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft³/s, Dec. 23, 1964, gage height, 72.0 ft, from floodmarks, from rating curve extended above 220,000 ft³/s on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s, Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 72,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 17	0900	116,000	30.91	Feb. 17	2230	*364,000	*51.08
Feb. 3	1545	81,600	26.72	Mar. 8	1800	136,000	32.97

Minimum daily, 71 ft³/s, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	316	6910	1400	41800	14300	5890	1800	1070	342	143	85
2	103	296	15600	1400	58200	12000	5560	2300	1030	333	142	85
3	103	284	41300	1650	79100	11000	5160	3360	976	315	138	82
4	103	271	17100	1790	62800	9750	4690	3630	941	303	133	80
5	103	251	11900	3180	35800	8780	4390	3370	907	292	126	80
6	103	251	11600	7480	24500	8030	4180	3780	873	291	122	80
7	103	253	11200	7240	18400	13200	4080	4610	832	285	119	80
8	103	250	16000	5210	14700	97700	4010	4110	794	275	115	78
9	101	242	13300	4140	11900	84300	3870	3530	775	266	114	73
10	100	264	9270	3480	9980	60300	3660	3130	750	259	112	73
11	100	299	6930	3010	8620	61600	3500	2830	710	253	110	73
12	100	349	5390	2710	8990	56700	3380	2620	670	242	107	73
13	100	394	4410	2420	24800	43000	3340	2430	638	240	104	73
14	100	407	3690	2670	38700	32900	3180	2280	603	231	103	71
15	100	378	3230	15800	128000	30800	3010	2150	524	216	103	78
16	100	370	2890	44500	180000	33000	3140	2030	542	204	103	142
17	100	374	2600	96700	279000	25900	3760	1940	543	201	101	426
18	100	465	2370	42400	304000	20400	3590	1830	538	198	99	1060
19	100	573	2210	24900	181000	17000	3120	1750	523	194	97	1910
20	107	517	2060	19400	145000	14900	2820	1690	510	187	93	1090
21	239	468	1920	14900	91900	13300	2620	1660	501	182	91	866
22	781	434	1890	11800	66400	11900	2500	1590	486	180	91	581
23	2110	414	1930	15500	47800	10700	2450	1510	470	176	91	497
24	2270	510	1870	17200	35400	10000	2400	1380	447	172	91	463
25	1840	1460	1630	13000	27600	9410	2310	1240	426	169	90	653
26	1240	2990	1500	10600	22400	8550	2190	1240	404	165	88	1170
27	859	2340	1440	9040	18800	7900	2100	1230	380	163	88	4080
28	624	2340	1420	7950	16300	7520	1990	1230	360	159	88	4360
29	498	9770	1320	9210	---	7120	1910	1200	350	154	88	2190
30	412	17400	1300	34100	---	6550	1880	1170	347	147	88	1400
31	342	---	1320	30400	---	6230	---	1130	---	143	87	---
TOTAL	13247	44930	207500	465180	1981890	754740	100680	69750	18920	6937	3265	22052
MEAN	427	1498	6694	15010	70780	24350	3356	2250	631	224	105	735
MAX	2270	17400	41300	96700	304000	97700	5890	4610	1070	342	143	4360
MIN	100	242	1300	1400	8620	6230	1880	1130	347	143	87	71
AC-FT	26280	89120	411600	922700	3931000	1497000	199700	138300	37530	13760	6480	43740

CAL YR 1985 TOTAL 1021484 MEAN 2799 MAX 77100 MIN 58 AC-FT 2026000
WTR YR 1986 TOTAL 3689091 MEAN 10110 MAX 304000 MIN 71 AC-FT 7317000

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.

CHEMICAL DATA: Water years 1952-75, 1977, 1979 to current year.

BIOLOGICAL DATA: Water year 1979-81.

SPECIFIC CONDUCTANCE: Water years 1979-81.

WATER TEMPERATURE: Water years 1958-82.

SEDIMENT DATA: Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1979 to September 1981.

WATER TEMPERATURE: October 1957 to June 1982.

SUSPENDED-SEDIMENT DISCHARGE: October 1957 to September 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 414 microsiemens, Dec. 21, 1980; minimum recorded, 94 microsiemens, Jan. 14, 1980.

WATER TEMPERATURE: Maximum recorded, 27.0°C, July 23, 1979; minimum recorded, 2.0°C, Dec. 11, 1972.

SEDIMENT CONCENTRATION: Maximum daily mean, 33,000 mg/L (estimated), Dec. 23, 1964; minimum daily mean, 1 mg/L, several days in 1958-64, 1966-67, 1970, 1972-80.

SEDIMENT LOAD: Maximum daily, 57,000,000 tons (estimated), Dec. 23, 1964; minimum daily, 0.07 ton, Aug. 13, 17-20, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV 20...	1145	516	263	8.10	8.0	765	5.0	11.9	100	K8	K12	130
JAN 24...	1350	16600	128	7.90	9.0	765	88	11.5	99	K170	K210	60
MAR 20...	1430	14600	143	8.20	12.5	765	130	10.3	96	K22	K50	64
MAY 13...	1200	2420	187	8.10	15.5	760	3.0	9.8	99	K3	K2	86
JUL 09...	1300	268	285	8.30	19.5	765	1.2	9.0	98	K2	K2	140
SEP 09...	1145	73	310	8.40	19.5	760	0.30	9.9	108	K1	K6	150
DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	CAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L CACO3)	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 20...	23	36	10	9.4	13	0.4	1.0	133	0	109	109	26
JAN 24...	6	16	4.8	4.5	14	0.3	0.80	66	0	54	54	9.9
MAR 20...	2	17	5.3	4.7	14	0.3	1.0	76	0	62	64	8.4
MAY 13...	3	23	6.8	5.7	13	0.3	1.0	103	0	84	83	13
JUL 09...	4	38	10	8.2	11	0.3	1.4	163	0	134	132	18
SEP 09...	7	40	12	9.5	12	0.4	1.7	107	0	142	141	20

See footnotes at end of table.

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 20...	8.5	0.10	7.6	164	160	0.22	0.010	0.100	0.010	0.020	0.20	0.030
JAN 24...	2.4	<0.10	11	79	82	0.11	0.010	<0.100	0.070	0.020	0.40	0.090
MAR 20...	2.1	<0.10	11	89	87	0.12	<0.010	<0.100	0.050	0.020	0.30	0.030
MAY 13...	3.1	0.10	11	114	110	0.16	<0.010	<0.100	0.010	0.030	<0.20	0.020
JUL 09...	4.6	0.10	10	162	170	0.22	<0.010	<0.100	0.010	0.030	0.30	0.030
SEP 09...	6.6	0.10	8.3	216	220	0.29	<0.010	<0.100	0.090	0.020	<0.20	0.010

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 20...	0.010	0.010	10	2	86	<0.5	<1	<1	<3	2	<3
JAN 24...	0.020	0.020	20	<1	37	<0.5	<1	<1	<3	1	14
MAR 20...	0.020	0.020	--	--	--	--	--	--	--	--	--
MAY 13...	0.010	0.020	<10	2	60	<0.5	<1	<1	<3	1	9
JUL 09...	0.020	0.020	--	--	--	--	--	--	--	--	--
SEP 09...	0.010	<0.010	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 20...	<1	6	5	<0.1	<10	6	<1	<1	440	<6	5
JAN 24...	2	<4	5	<0.1	<10	1	<1	<1	200	<6	6
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	1	5	5	<0.1	<10	1	<1	<1	290	<6	11
JUL 09...	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

< Actual value is known to be less than the value shown.

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
20...*	1245	58.0	140	8.10	12.0	765	9.6	89	293	91
20...*	1330	113	142	8.10	12.5	765	10.0	93	309	87
20...*	1420	208	140	8.10	12.5	765	9.4	88	349	79
20...*	1530	318	140	8.10	12.5	765	9.2	86	423	65
20...*	1600	438	142	8.10	13.0	765	10.0	95	352	76
SEP										
09...*	1045	44.0	310	8.40	20.5	760	10.0	112	1	--
09...*	1110	72.0	310	8.30	20.0	760	9.9	109	3	--
09...*	1140	89.0	310	8.40	20.0	760	9.8	108	2	--
09...*	1210	100	310	8.40	20.0	760	9.9	109	5	--
09...*	1240	119	310	8.40	20.5	760	10.1	113	3	--

*Instantaneous streamflow at the time of cross-sectional measurements: Mar. 20, 14,600 ft³/s;
Sept. 9, 73 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
20...	1145	516	8.0	5	7.0	--
JAN						
24...	1350	16600	9.0	291	13000	77
MAR						
20...	1430	14600	12.5	345	13600	79
MAY						
13...	1200	2420	15.5	9	59	--
JUL						
09...	1300	268	19.5	5	3.6	--
SEP						
09...	1145	73	20.5	3	0.59	--

EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE 1/4 SE 1/4 sec.12, T.1 N., R.2 E., Humboldt County, Hydrologic Unit 18010105, on left bank at downstream side of bridge on State Highway 36, 0.9 mi upstream from Grizzly Creek, and 5 mi west of Bridgeville.

DRAINAGE AREA.--222 mi².

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 358.18 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--36 years, 901 ft³/s, 652,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 4.6 ft³/s, Aug. 8, 13-14, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1730	19,300	14.61	Feb. 17	2100	*36,900	*18.17

Minimum daily, 8.1 ft³/s, Sept. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	41	442	126	4050	1020	450	148	116	33	14	9.2
2	10	38	6550	128	8300	934	390	554	106	31	14	8.8
3	10	36	4740	341	7500	826	350	1230	98	30	13	8.8
4	10	33	1790	285	4530	738	318	702	94	30	13	8.8
5	9.7	31	1950	836	2930	688	307	746	94	30	13	8.8
6	9.2	30	1360	920	2070	636	281	1100	94	29	12	8.8
7	9.1	28	2070	572	1610	6140	288	1130	93	26	12	8.8
8	9.1	27	2090	439	1330	12600	269	883	86	26	12	8.8
9	9.5	33	1450	362	1120	5880	246	688	81	26	12	8.8
10	8.8	98	1040	307	971	4480	236	569	76	25	11	8.8
11	8.8	94	811	273	862	5540	224	470	70	25	11	8.8
12	8.8	75	682	246	1150	4270	240	410	67	25	11	8.5
13	8.8	63	582	227	3080	3460	271	364	65	24	11	8.1
14	8.8	55	493	722	7150	2510	244	328	61	23	10	8.1
15	8.8	55	447	2760	14300	2090	233	291	58	22	10	9.7
16	8.8	182	398	10900	17600	1700	324	266	58	21	10	19
17	8.8	192	354	7970	25700	1500	521	244	56	19	10	78
18	8.8	171	315	3820	20300	1250	380	225	57	19	9.4	188
19	8.8	123	289	2970	14900	1140	305	211	58	19	9.4	448
20	14	98	262	2460	9150	1070	266	200	54	19	9.4	182
21	48	86	238	1910	6220	1000	240	212	51	19	9.4	105
22	401	77	216	1780	5320	911	222	208	50	18	9.4	78
23	796	82	198	2800	3680	819	209	185	47	17	9.4	62
24	334	523	183	2020	2550	920	197	168	43	17	9.4	127
25	175	615	172	1650	1900	783	198	157	41	17	9.4	321
26	113	314	159	1430	1550	719	189	156	37	16	9.4	856
27	87	227	152	1280	1330	658	178	151	37	16	9.4	950
28	71	1150	142	1140	1140	605	169	150	35	16	9.4	390
29	60	998	134	2890	---	565	160	139	35	16	9.4	232
30	52	680	129	5600	---	518	155	131	35	16	9.4	165
31	46	---	127	3490	---	476	---	121	---	15	9.4	---
TOTAL	2371.6	6255	29965	62654	172293	66446	8060	12537	1953	685	330.6	4332.6
MEAN	76.5	208	967	2021	6153	2143	269	404	65.1	22.1	10.7	144
MAX	796	1150	6550	10900	25700	12600	521	1230	116	33	14	950
MIN	8.8	27	127	126	862	476	155	121	35	15	9.4	8.1
AC-FT	4700	12410	59440	124300	341700	131800	15990	24870	3870	1360	656	8590

CAL YR 1985	TOTAL	123935.6	MEAN	340	MAX	7610	MIN	7.2	AC-FT	245800
WTR YR 1986	TOTAL	367882.8	MEAN	1008	MAX	25700	MIN	8.1	AC-FT	729700

MAD RIVER BASIN

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°17'04", long 123°20'03", in NW 1/4 NE 1/4 sec.24, T.2 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near right bank on downstream end of pier of Zenia Road Bridge, 1,600 ft downstream from Marshall Creek, 1.2 mi northwest of Ruth, and 6.1 mi southwest of Forest Glen.

DRAINAGE AREA.--93.8 mi².

PERIOD OF RECORD.--September to December 1971, July 1972, June to September 1977, April to May 1980 (discharge measurements only), June 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 10 ft³/s, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years (water years 1981-86), 269 ft³/s, 194,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s, Feb. 17, 1986, gage height, 11.39 ft in gage, 12.94 ft from crest-stage gage; no flow at times in every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*) from rating curve extended above 5,500 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2045	6,170	8.36	Mar. 8	0330	5,180	7.90
Feb. 17	0700	*15,000	*11.39				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	6.4	249	31	1180	298	126	42	24	4.2		0
2	0	5.1	1470	38	2060	264	119	57	22	3.9		0
3	0	5.0	907	61	2270	236	113	112	20	3.8		0
4	0	5.1	422	61	1360	215	106	94	19	3.6		0
5	0	4.6	448	156	888	201	102	91	18	3.3		0
6	0	4.5	336	201	649	188	96	124	18	2.7		0
7	0	4.0	505	141	511	1370	95	136	18	2.6		0
8	0	4.0	493	109	415	4040	92	119	17	2.5		0
9	0	4.6	342	90	345	1940	86	103	16	2.3		0
10	0	8.2	251	77	299	1530	82	92	15	2.1		0
11	0	12	191	69	273	1610	77	84	14	1.8		0
12	0	11	145	63	587	1280	74	77	13	1.5		0
13	0	8.9	115	60	1350	957	73	71	12	1.1		0
14	0	7.9	97	130	2340	735	69	67	11	.94		0
15	0	8.7	84	461	5380	642	67	62	11	.73		0
16	0	18	74	2870	7220	569	76	59	9.8	.59		0
17	0	26	66	2430	9660	471	97	55	9.6	.56		.46
18	0	22	60	1020	6100	391	84	52	9.8	.45		3.4
19	0	18	55	711	5220	341	75	49	9.6	.34		3.5
20	.18	15	52	570	3740	304	68	48	9.3	.26		.48
21	.92	12	47	437	2290	276	64	47	8.9	.19		.02
22	9.0	11	45	410	1750	253	60	46	8.2	.08		0
23	5.7	16	41	674	1170	231	57	44	7.5	.01		0
24	14	131	40	565	843	222	55	41	6.9	0		0
25	14	102	37	449	637	200	54	38	6.3	0		1.5
26	11	58	35	367	510	184	52	36	5.7	0		107
27	11	45	33	314	415	172	49	34	5.4	0		183
28	9.0	323	31	282	347	160	48	32	5.0	0		49
29	8.1	467	31	828	---	149	45	30	4.7	0		13
30	7.2	275	31	1320	---	140	43	28	4.5	0		5.9
31	7.0	---	31	1020	---	133	---	26	---	0		---
TOTAL	97.10	1639.0	6764	16015	59809	19702	2304	1996	359.2	39.55	0	367.26
MEAN	3.13	54.6	218	517	2136	636	76.8	64.4	12.0	1.28	0	12.2
MAX	14	467	1470	2870	9660	4040	126	136	24	4.2	0	183
MIN	0	4.0	31	31	273	133	43	26	4.5	0	0	0
AC-FT	193	3250	13420	31770	118600	39080	4570	3960	712	78	0	728
CAL YR 1985	TOTAL	30836.14	MEAN	84.5	MAX	1980	MIN	0	AC-FT	61160		
WTR YR 1986	TOTAL	109092.11	MEAN	299	MAX	9660	MIN	0	AC-FT	216400		

MAD RIVER BASIN

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW 1/4 NW 1/4 sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi west of Forest Glen.

DRAINAGE AREA.--121 mi².

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft at elevation 2,654.0 ft, crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 68,000 acre-ft, Feb. 17, 1986, elevation, 2,667.06 ft; minimum, 11,700 acre-ft, Oct. 24-28, 1977; minimum elevation, 2,607.13 ft, Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 68,000 acre-ft, Feb. 17, elevation, 2,667.06 ft; minimum contents, 22,700 acre-ft, Nov. 21-23, elevation, 2,623.37 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

2,595	6,670	2,640	37,300
2,600	8,520	2,645	42,300
2,605	10,700	2,650	47,400
2,610	13,300	2,655	52,900
2,615	16,500	2,660	58,700
2,620	20,100	2,665	65,000
2,625	23,900	2,670	72,300
2,630	27,800	2,675	80,300
2,635	32,500		

 CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
 INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30000	24800	26500	39500	54800	52800	51600	51500	50900	48500	43400	36200
2	29800	24700	30800	39600	56200	52600	51500	51600	50800	48400	43200	36000
3	29600	24500	32900	39800	56100	52600	51200	51600	50800	48200	42900	35800
4	29400	24400	33600	40000	55100	52400	51000	51500	50700	48100	42700	35600
5	29200	24200	34400	40500	54300	52200	51000	51300	50700	48000	42500	35300
6	29000	24100	34900	41000	54000	52200	51000	51400	50600	47800	42300	35100
7	28800	23900	35900	41300	53600	52200	51000	51300	50500	47700	42100	34800
8	28500	23800	36800	41600	53100	51900	51100	51200	50400	47500	41900	34500
9	28300	23600	37300	41800	52900	56600	51200	51200	50400	47400	41600	34300
10	28200	23500	37800	41900	52700	56100	51200	51200	50300	47300	41400	34100
11	27900	23400	38100	42100	52500	56000	51200	51200	50300	47100	41200	33800
12	27700	23400	38300	42200	53500	55500	51300	51200	50300	46900	41000	33600
13	27500	23300	38400	42300	54500	54800	51300	51100	50200	46800	40700	33300
14	27300	23200	38500	42900	56700	54400	51400	51100	50100	46600	40500	33100
15	27100	23100	38500	44600	59200	54100	51400	51000	50000	46400	40300	32900
16	26900	23000	38600	52000	61000	53800	51500	51000	49900	46200	40100	32800
17	26700	23000	38700	55000	67700	53500	51600	51000	49800	46100	39800	32700
18	26500	22900	38700	54500	61800	53300	51600	50900	49700	45900	39600	32600
19	26300	22900	38800	54100	60400	53100	51700	50900	49600	45800	39400	32400
20	26300	22800	38800	53700	58500	52900	51700	50900	49600	45600	39200	32200
21	26200	22700	38900	53300	57100	52800	51700	50900	49600	45500	38900	32000
22	26200	22700	39000	53400	56200	52700	51600	51000	49500	45300	38700	31700
23	26100	22700	39100	53600	55200	52600	51600	51000	49400	45100	38400	31600
24	26000	23000	39200	53400	54500	52500	51600	51000	49300	44900	38200	31300
25	25900	23200	39200	53000	54000	52400	51600	51000	49300	44700	38000	31200
26	25800	23200	39300	52800	53600	52300	51600	51000	49100	44500	37700	31300
27	25600	23400	39300	52600	53200	52200	51600	51000	49000	44400	37500	31300
28	25500	24100	39400	52400	53000	52100	51500	51000	48900	44200	37200	31300
29	25300	25000	39400	54100	---	52000	51500	51000	48800	44000	37000	31200
30	25100	25600	39400	54900	---	51900	51500	51000	48600	43800	36700	31000
31	24900	---	39400	54700	---	51800	---	51000	---	43600	36500	---
MAX	30000	25600	39400	55000	67700	57900	51700	51600	50900	48500	43400	36200
MIN	24900	22700	26500	39500	52500	51800	51000	50900	48600	43600	36500	31000
a	2626.34	2627.22	2642.12	2656.54	2655.04	2653.97	2653.72	2653.24	2651.16	2646.24	2639.14	2633.46
b	-5700	+700	+13800	+15300	-1700	-1200	-300	-500	-2400	-5000	-7100	-5500

CAL YR 1985 MAX 53600 MIN 22700 b -10300

WTR YR 1986 MAX 67700 MIN 22700 b +400

a ELEVATION, IN FEET NGVD, AT END OF MONTH

b CHANGE IN CONTENTS, IN ACRE-FEET

MAD RIVER BASIN

11480410 MAD RIVER BELOW RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'16", long 123°26'06", in SW 1/4 SW 1/4 sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, 1,200 ft downstream from Robert W. Matthews Dam, 5.3 mi northwest of Ruth, and 5.8 mi west of Forest Glen.

DRAINAGE AREA.--121 mi².

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 13-19. Records good. Flow regulated by Robert W. Matthews Dam, capacity, 51,800 acre-ft.

AVERAGE DISCHARGE.--6 years, 379 ft³/s, 274,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s, Feb. 17, 1986, gage height, 17.61 ft, from floodmarks; minimum daily, 7.5 ft³/s, Nov. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,800 ft³/s, Feb. 17, gage height, 17.61 ft, from floodmarks; minimum daily, 11 ft³/s, Dec. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	76	36	18	1480	549	241	49	42	55	100	107
2	100	73	134	18	2030	473	238	82	43	63	100	106
3	98	74	214	18	2710	321	238	140	42	69	100	103
4	95	74	214	18	2110	360	238	140	42	68	101	103
5	94	72	216	18	1420	353	178	193	43	68	101	103
6	94	72	216	18	911	308	130	119	41	69	100	103
7	93	71	218	18	744	761	101	238	41	68	100	102
8	92	70	218	18	686	3870	94	152	41	69	100	102
9	95	71	163	18	531	3730	93	97	41	69	101	102
10	94	68	86	18	437	2860	72	97	41	70	101	102
11	97	53	87	18	372	2670	71	97	41	78	101	102
12	95	52	87	18	461	2380	72	97	41	79	102	101
13	95	52	87	17	1320	1860	72	99	41	79	101	101
14	95	52	87	15	2040	1450	71	86	42	80	98	101
15	95	52	87	14	4570	1220	71	74	41	79	98	101
16	94	52	72	70	7010	1080	72	74	41	78	99	101
17	95	52	42	1050	13400	924	72	75	41	79	99	102
18	95	52	42	1340	12800	787	72	76	41	78	99	102
19	94	50	42	1000	8280	683	73	54	41	78	101	101
20	92	49	25	796	5960	605	73	40	41	78	107	100
21	93	45	11	611	4050	535	73	40	40	83	107	99
22	87	45	11	513	3050	482	73	40	41	85	107	99
23	65	45	11	644	2240	434	74	40	41	88	107	99
24	46	45	16	715	1610	400	73	40	41	92	107	99
25	57	43	19	631	1220	363	73	40	42	90	107	99
26	82	35	19	508	961	329	71	40	48	90	107	99
27	82	35	19	422	772	303	73	40	52	90	107	99
28	82	35	18	362	639	281	73	40	52	90	106	99
29	82	35	18	595	---	260	65	40	52	90	106	99
30	83	35	18	1520	---	240	49	35	55	94	107	98
31	82	---	18	1440	---	241	---	42	---	100	107	---
TOTAL	2743	1635	2551	12479	83814	31112	3039	2516	1292	2446	3184	3034
MEAN	88.5	54.5	82.3	403	2993	1004	101	81.2	43.1	78.9	103	101
MAX	100	76	218	1520	13400	3870	241	238	55	100	107	107
MIN	46	35	11	14	372	240	49	35	40	55	98	98
AC-FT	5440	3240	5060	24750	166200	61710	6030	4990	2560	4850	6320	6020
CAL YR 1985	TOTAL	44650	MEAN	122	MAX	872	MIN	11	AC-FT	88560		
WTR YR 1986	TOTAL	149845	MEAN	411	MAX	13400	MIN	11	AC-FT	297200		

MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CA

LOCATION.--Lat 40°27'30", long 123°30'35", in SW 1/4 sec.16, T.1 N., R.6 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on right bank 0.7 mi downstream from Lamb Creek, and 11.1 mi northwest of Forest Glen.

DRAINAGE AREA.--143 mi².

PERIOD OF RECORD.--June 1953 to current year.

REVISED RECORDS.--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft lower than former datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Ruth Reservoir (station 11480400), 9 mi upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--33 years, 392 ft³/s, 284,000 acre-ft/yr (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s, Dec. 22, 1955, gage height, 24.5 ft, present datum, from floodmarks, from rating curve extended above 8,100 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s, Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft³/s, Feb. 17, gage height, 16.15 ft; minimum daily, 21 ft³/s, Dec. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	84	162	22	2020	711	283	63	48	58	102	108
2	96	77	812	22	2850	603	277	81	49	60	101	108
3	95	77	414	23	3430	431	278	160	49	71	102	106
4	92	77	310	25	2680	418	276	155	49	71	102	105
5	92	76	350	52	1870	433	229	196	49	71	102	104
6	92	76	305	39	1250	373	161	163	47	71	102	104
7	92	73	383	32	965	1130	132	265	48	71	103	104
8	91	74	356	29	898	4350	122	205	47	71	102	104
9	93	79	279	27	681	4370	130	117	47	71	102	104
10	93	79	137	26	558	3390	99	115	47	70	103	104
11	98	58	122	25	473	3100	99	114	47	78	102	104
12	96	55	113	25	644	2790	100	114	46	80	103	104
13	96	55	107	24	1500	2310	98	113	46	80	103	104
14	96	55	103	66	2750	1870	97	107	46	80	101	104
15	96	57	101	178	5420	1660	97	94	46	80	99	106
16	95	58	95	1230	8070	1500	100	92	46	80	101	108
17	96	58	57	1560	15000	1290	99	86	46	80	101	116
18	96	58	55	1850	13900	1100	97	85	47	80	101	128
19	96	55	54	1390	8670	944	95	74	46	80	101	119
20	105	54	48	1080	6230	830	95	51	47	80	107	108
21	106	48	23	816	4310	723	94	51	45	82	108	107
22	121	47	21	692	3310	641	94	51	44	86	108	106
23	87	51	21	909	2530	572	94	50	44	87	108	107
24	51	73	21	950	1920	521	94	50	45	94	108	110
25	51	61	24	837	1510	468	94	49	44	93	108	112
26	86	40	24	655	1230	419	88	49	47	92	108	129
27	86	42	23	538	1010	382	88	48	55	92	108	118
28	86	80	23	457	835	349	88	48	55	92	107	110
29	86	71	23	1170	---	321	86	47	55	91	107	108
30	87	55	23	2380	---	291	64	46	56	93	108	106
31	88	---	23	2030	---	286	---	46	---	102	108	---
TOTAL	2837	1903	4612	19159	96514	38576	3848	2985	1433	2487	3226	3265
MEAN	91.5	63.4	149	618	3447	1244	128	96.3	47.8	80.2	104	109
MAX	121	84	812	2380	15000	4370	283	265	56	102	108	129
MIN	51	40	21	22	473	286	64	46	44	58	99	104
AC-FT	5630	3770	9150	38000	191400	76520	7630	5920	2840	4930	6400	6480
CAL YR 1985	TOTAL	52632	MEAN	144	MAX	1080	MIN	21	AC-FT	104400		
WTR YR 1986	TOTAL	180845	MEAN	495	MAX	15000	MIN	21	AC-FT	358700		

MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW 1/4 NW 1/4 sec.15, T.6 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft upstream from bridge on U.S. Highway 299, 1.0 mi downstream from Warren Creek, and 2.8 mi northeast of Arcata.

DRAINAGE AREA.--485 mi².

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315B.

REVISED RECORDS.--WDR CA-72-1: 1965(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 12.79 ft above National Geodetic Vertical Datum of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi upstream at datum 11.00 ft higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good except those for summer months, which are poor. Flow regulated by Ruth Reservoir (station 11480400), 68 mi upstream, beginning in July 1961. Water is diverted 0.5 mi upstream from station for municipal supply and industrial use in Humboldt Bay area.

AVERAGE DISCHARGE (adjusted for diversions).--39 years, 1,529 ft³/s, 1,108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s, Dec. 22, 1964, gage height, 30.7 ft, present datum, from high-water profile; minimum daily, 0.10 ft³/s, Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,000 ft³/s, Feb. 18, gage height, 21.12 ft; minimum daily, 27 ft³/s, Oct. 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	67	762	28	4810	2030	710	305	165	38	31	46
2	51	61	3680	76	7710	1730	688	624	161	36	35	41
3	42	41	6100	472	11600	1480	660	1190	152	35	43	38
4	45	33	2800	326	9040	1190	639	920	148	45	36	36
5	32	29	2840	416	5980	1100	616	1620	143	65	34	35
6	27	28	2550	950	4290	1020	571	3090	148	54	32	34
7	30	28	3600	640	3090	5290	518	2830	148	47	33	34
8	29	29	4620	585	2580	13400	492	2030	139	55	33	34
9	27	60	3490	538	2130	13100	464	1420	126	47	35	36
10	31	577	2180	423	1730	9270	452	1050	117	41	34	45
11	61	353	1480	372	1440	8940	411	821	110	44	34	41
12	71	208	1090	327	1710	7580	453	671	102	44	32	37
13	102	144	799	292	4210	7890	534	556	104	47	34	35
14	86	111	649	408	5470	6640	474	499	100	45	32	36
15	56	117	558	2220	13200	5250	485	447	97	39	35	46
16	70	393	484	9070	22800	4360	524	397	80	42	34	110
17	75	451	411	10500	33400	3620	828	359	91	40	42	329
18	95	396	325	6190	36600	3050	677	329	132	39	61	557
19	152	279	279	4680	24300	2640	584	305	113	37	49	869
20	246	210	255	3890	18900	2310	533	293	80	32	61	451
21	594	180	235	2850	13400	2080	489	282	56	31	49	234
22	1340	156	208	2350	13800	1780	451	264	52	30	63	136
23	2290	146	177	3340	10700	1590	423	233	47	29	42	114
24	784	585	150	3060	7160	1740	397	210	46	28	45	387
25	320	957	124	2560	5170	1410	408	189	38	38	39	945
26	213	505	93	2100	3610	1200	393	178	34	42	35	1990
27	162	341	64	1700	3010	1050	366	179	47	38	38	2670
28	153	2130	41	1410	2440	938	367	174	43	38	45	1150
29	127	2020	31	1710	---	858	342	180	48	33	44	728
30	99	1270	29	4630	---	796	322	208	45	30	44	515
31	90	---	28	4260	---	743	---	188	---	29	46	---
TOTAL	7555	11905	40132	72373	274280	116075	15271	22041	2912	1238	1250	11759
MEAN	244	397	1295	2335	9796	3744	509	711	97.1	39.9	40.3	392
MAX	2290	2130	6100	10500	36600	13400	828	3090	165	65	63	2670
MIN	27	28	28	28	1440	743	322	174	34	28	31	34
AC-FT	14990	23610	79600	143600	544000	230200	30290	43720	5780	2460	2480	23320
a	4790	4544	3868	4412	3872	4623	4303	4510	5008	5624	5413	5009

CAL YR 1985 TOTAL 206742 MEAN 566 MAX 10900 MIN 21 AC-FT 410100
WTR YR 1986 TOTAL 576791 MEAN 1580 MAX 36600 MIN 27 AC-FT 1144000

a Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Bay Municipal Water District.

LITTLE RIVER BASIN

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE 1/4 sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 0.5 mi upstream from Coon Creek, 4.7 mi southeast of Trinidad, and 9.1 mi north of Arcata.

DRAINAGE AREA.--40.5 mi².

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60. WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. No storage or diversion above station.

AVERAGE DISCHARGE.--31 years, 146 ft³/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s, Mar. 18, 1975, gage height, 14.19 ft, from rating curve extended above 3,100 ft³/s on basis of slope-area measurement at gage height 14.08 ft; minimum daily, 2.8 ft³/s, Oct. 20-22, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft, observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 17	1830	*5,690	*10.58				
Minimum daily, 4.6 ft ³ /s, Sept. 13-14.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	12	107	43	381	194	67	54	32	17	9.1	6.3
2	5.7	11	345	119	673	166	63	256	31	16	8.7	6.2
3	5.7	11	358	187	1080	141	60	435	31	15	8.5	5.5
4	5.7	11	223	95	686	122	58	178	30	15	8.0	5.1
5	5.7	10	376	197	435	108	55	250	29	15	8.0	5.1
6	5.7	9.0	340	174	314	100	53	605	29	15	8.2	5.1
7	5.7	9.0	576	117	246	634	51	374	29	13	8.0	5.1
8	5.7	9.1	738	161	205	854	49	222	26	13	7.6	5.1
9	5.7	28	460	151	173	708	47	156	25	13	7.4	5.1
10	5.7	127	258	111	148	665	45	123	24	13	7.4	5.2
11	5.7	67	175	95	133	753	43	101	22	13	7.4	6.3
12	5.7	39	129	82	177	576	58	88	22	13	7.4	5.2
13	5.7	25	103	85	344	759	60	78	22	12	7.4	4.6
14	5.7	20	88	220	273	545	49	72	23	11	7.4	4.6
15	5.7	20	77	298	487	405	59	65	24	11	6.9	5.2
16	5.7	52	68	1550	2000	304	105	60	22	11	6.8	8.5
17	5.7	64	61	887	2840	236	93	57	24	11	6.8	29
18	5.7	72	55	470	1710	198	71	54	34	11	7.0	71
19	5.7	50	51	469	1730	169	61	52	25	11	7.3	52
20	14	40	48	381	1530	143	54	52	22	11	6.8	21
21	51	35	45	262	1330	133	50	53	21	11	6.8	15
22	328	30	42	296	2290	116	47	49	20	11	6.2	12
23	572	34	38	491	1470	129	44	46	19	11	6.2	12
24	131	84	38	313	755	188	42	42	18	11	6.2	50
25	55	74	34	229	542	134	46	39	18	11	6.2	85
26	34	51	33	180	369	112	42	38	17	10	6.2	222
27	25	49	32	149	284	99	39	38	17	10	6.2	97
28	22	257	31	127	230	90	39	37	17	10	6.4	45
29	18	204	30	247	---	82	36	36	17	10	6.2	30
30	16	123	30	241	---	77	35	34	17	9.9	6.2	23
31	14	---	29	243	---	72	---	33	---	9.4	6.2	---
TOTAL	1388.3	1627.1	5018	8670	22835	9012	1621	3777	707	374.3	221.1	852.2
MEAN	44.8	54.2	162	280	816	291	54.0	122	23.6	12.1	7.13	28.4
MAX	572	257	738	1550	2840	854	105	605	34	17	9.1	222
MIN	5.7	9.0	29	43	133	72	35	33	17	9.4	6.2	4.6
AC-FT	2750	3230	9950	17200	45290	17880	3220	7490	1400	742	439	1690

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE 1/4 NE 1/4 sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank 400 ft upstream from Lupton Creek, and 9.1 mi east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 850 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 11-14, 18-23, 26, Dec. 10-29, Jan. 16-17, 22, 25-29, Feb. 10-11, and Feb. 26 to Mar. 4. Records good except for periods of estimated record, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years, 263 ft³/s, 190,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s, Mar. 18, 1975, gage height, 13.70 ft, from rating curve extended above 6,400 ft³/s; minimum daily, 2.6 ft³/s, Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1745	3,690	7.87	Mar. 8	2000	2,570	6.63
Feb. 17	1300	*6,470	*10.16				

Minimum daily, 3.8 ft³/s, Oct. 7-11, Sept. 7-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	15	143	68	523	403	157	82	59	25	8.6	4.9
2	4.3	14	1110	87	1170	315	151	203	57	24	7.2	4.9
3	4.3	14	812	201	1370	270	139	208	55	24	6.6	4.6
4	4.1	13	387	125	1030	285	132	164	55	23	6.0	4.2
5	4.1	12	442	193	820	260	127	221	55	23	6.1	4.1
6	3.9	12	510	211	610	242	120	358	55	23	5.8	3.9
7	3.8	12	700	140	492	1360	115	391	54	21	6.5	3.8
8	3.8	12	682	143	411	2140	111	353	51	21	5.4	3.8
9	3.8	39	468	124	359	1500	107	322	48	20	5.2	3.8
10	3.8	57	358	98	318	1180	103	283	45	20	5.0	3.8
11	3.8	39	290	97	297	1320	98	254	42	20	5.1	3.8
12	4.1	26	240	78	478	956	114	229	41	19	5.1	3.8
13	4.2	22	200	81	802	932	117	199	40	18	5.1	3.8
14	4.3	20	175	168	1170	798	113	144	38	16	4.9	3.8
15	4.3	80	168	349	2210	682	112	129	38	16	4.8	5.6
16	4.3	159	142	1840	3720	561	134	121	38	15	4.9	9.9
17	4.3	112	128	1300	5050	513	166	114	40	15	4.9	45
18	4.3	81	117	750	3500	453	141	106	45	16	4.9	42
19	4.3	62	108	594	2920	394	128	102	40	14	4.9	47
20	7.2	52	99	480	2520	356	122	101	37	13	5.1	22
21	45	45	91	372	2440	331	113	115	36	12	5.1	16
22	187	42	85	360	2490	304	105	108	34	12	5.0	13
23	216	76	79	509	1770	293	99	100	32	12	4.9	12
24	85	135	74	391	1220	316	94	94	30	12	4.9	45
25	44	130	70	305	928	264	112	88	29	11	4.9	73
26	31	85	67	255	709	236	98	84	27	10	4.9	232
27	24	71	64	227	579	219	93	81	27	11	4.9	135
28	23	576	62	212	488	205	92	78	27	10	4.9	55
29	20	305	60	325	---	190	86	73	28	9.9	4.9	37
30	18	176	58	545	---	176	83	66	27	8.8	4.9	29
31	16	---	58	428	---	165	---	61	---	8.5	4.9	---
TOTAL	794.3	2494	8047	11056	40394	17619	3482	5032	1230	503.2	166.3	875.5
MEAN	25.6	83.1	260	357	1443	568	116	162	41.0	16.2	5.36	29.2
MAX	216	576	1110	1840	5050	2140	166	391	58	25	8.6	232
MIN	3.8	12	58	68	297	165	83	61	27	8.5	4.8	3.8
AC-FT	1580	4950	15960	21930	80120	34950	6910	9980	2440	998	330	1740

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

CHEMICAL DATA: Water years 1974-75.

WATER TEMPERATURE: Water years 1973 to current year.

SEDIMENT DATA: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1972 to September 1981, October 1981 to current year (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1981, October 1981 to current year (storm season only).

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 33.5°C, Aug. 2, 1977; minimum recorded, 0.5°C, Jan. 9, 1977.

SEDIMENT CONCENTRATION: Maximum daily mean, 11,200 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, on several days in 1976, 1980, and 1983-85.

SEDIMENT LOAD: Maximum daily, 276,000 tons, Mar. 18, 1975; minimum daily, 0 ton, on several days in 1976, 1980, and 1983-85.

EXTREMES FOR CURRENT YEAR (storm season only).--

WATER TEMPERATURE: Maximum observed, 17.0°C, Apr. 21; minimum observed, 4.5°C, Nov. 14.

SEDIMENT CONCENTRATION: Maximum daily mean, 3,760 mg/L, Feb. 17; minimum daily mean, 1 mg/L, on several days during the year.

SEDIMENT LOAD: Maximum daily, 53,700 tons, Feb. 17; minimum daily, 0.01 ton, on several days during the year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	11.5	---					
2	---	---	8.5	---	---	12.5	---					
3	---	---	---	8.0	---	13.0	---					
4	14.5	---	8.0	---	---	10.5	---					
5	---	9.0	9.0	9.0	---	13.0	---					
6	---	11.0	8.5	8.0	---	10.0	---					
7	---	---	8.0	0.0	---	11.5	10.5					
8	---	10.0	7.0	0.0	---	9.5	12.0					
9	---	8.0	6.0	7.0	6.5	9.0	14.0					
10	---	---	6.0	---	---	9.0	14.5					
11	---	---	6.5	---	7.0	8.5	13.0					
12	---	6.0	---	---	7.5	8.5	9.0					
13	---	---	7.0	7.0	8.0	7.0	11.0					
14	---	4.5	---	8.0	9.0	8.0	9.5					
15	---	---	6.5	8.0	8.0	9.0	10.5					
16	---	5.0	---	11.0	10.0	9.0	10.0					
17	---	---	6.0	9.0	9.5	9.0	9.0					
18	---	6.5	---	---	9.5	9.5	13.0					
19	---	---	7.0	9.0	9.0	11.0	9.0					
20	---	---	---	7.0	8.0	9.5	16.0					
21	12.0	---	6.5	---	8.5	11.5	17.0					
22	12.0	---	---	8.0	9.5	8.0	12.0					
23	11.5	6.5	6.0	8.0	11.0	---	11.5					
24	13.5	7.0	---	7.0	10.0	10.0	11.0					
25	13.0	---	7.0	8.0	9.5	---	9.5					
26	11.5	5.5	---	---	12.5	---	11.5					
27	---	---	7.5	10.0	10.5	9.5	10.0					
28	11.0	8.0	---	0.0	11.5	---	---					
29	---	---	7.0	0.0	---	---	9.0					
30	---	---	---	0.0	---	---	12.0					
31	---	---	---	0.0	---	---	---					
MONTH	---	---	---	---	---	---	---					

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	4.3	2	.02	15	2	.08	143	20	7.7
2	4.3	2	.02	14	2	.08	1110	646	2420
3	4.3	2	.02	14	1	.04	812	190	417
4	4.1	2	.02	13	2	.07	387	60	63
5	4.1	2	.02	12	2	.06	442	73	87
6	3.9	1	.01	12	1	.03	510	131	209
7	3.8	1	.01	12	1	.03	700	135	255
8	3.8	1	.01	12	1	.03	682	90	166
9	3.8	1	.01	39	2	.21	468	40	51
10	3.8	1	.01	57	4	.62	358	10	9.7
11	3.8	1	.01	39	2	.21	290	4	3.1
12	4.1	2	.02	26	1	.07	240	3	1.9
13	4.2	2	.02	22	1	.06	200	3	1.6
14	4.3	2	.02	20	1	.05	175	3	1.4
15	4.3	2	.02	80	5	1.1	168	2	.91
16	4.3	2	.02	159	20	8.6	142	2	.77
17	4.3	2	.02	112	8	2.4	128	2	.69
18	4.3	2	.02	81	6	1.3	117	2	.63
19	4.3	2	.02	62	5	.84	108	2	.58
20	7.2	3	.06	52	6	.84	99	2	.53
21	45	15	1.8	45	5	.61	91	2	.49
22	187	169	135	42	6	.68	85	2	.46
23	216	16	9.3	76	7	1.4	79	2	.43
24	85	4	.92	135	14	5.1	74	3	.60
25	44	2	.24	130	10	3.5	70	3	.57
26	31	1	.08	85	8	1.8	67	3	.54
27	24	1	.06	71	39	20	64	2	.35
28	23	1	.06	576	229	400	62	4	.67
29	20	1	.05	305	40	33	60	6	.97
30	18	1	.05	176	20	9.5	58	5	.78
31	16	1	.04	---	---	---	58	4	.63
TOTAL	794.3	---	147.98	2494	---	492.31	8047	---	3704.00
DAY	JANUARY			FEBRUARY			MARCH		
1	68	5	.92	523	70	99	403	66	72
2	87	8	1.9	1170	539	1860	315	46	39
3	201	10	5.4	1370	532	2020	270	36	26
4	125	7	2.4	1030	220	612	285	28	22
5	193	15	7.8	820	140	310	260	19	13
6	211	15	8.5	610	90	148	242	15	9.8
7	140	9	3.4	492	50	66	1360	1400	7020
8	143	8	3.1	411	35	39	2140	1320	6640
9	124	7	2.3	359	20	19	1500	690	2790
10	98	6	1.6	318	14	12	1180	456	1560
11	97	5	1.3	297	7	5.6	1320	470	1680
12	78	4	.84	478	133	185	956	270	697
13	81	4	.87	802	199	488	932	310	780
14	168	43	31	1170	687	3470	798	185	399
15	349	87	82	2210	1330	8410	682	113	208
16	1840	1020	7910	3720	3110	32200	561	70	106
17	1300	210	737	5050	3760	53700	513	42	58
18	750	83	168	3500	3200	30200	453	30	37
19	594	80	128	2920	2750	22100	394	25	27
20	480	44	57	2520	2140	14600	356	22	21
21	372	27	27	2440	1960	13500	331	20	18
22	360	45	44	2490	1700	11400	304	18	15
23	509	75	103	1770	990	4730	293	18	14
24	391	27	29	1220	520	1710	316	17	15
25	305	20	16	928	300	752	264	17	12
26	255	16	11	709	220	421	236	19	12
27	227	12	7.4	579	150	234	219	23	14
28	212	9	5.2	488	90	119	205	20	11
29	325	65	57	---	---	---	190	17	8.7
30	545	103	152	---	---	---	176	15	7.1
31	428	70	81	---	---	---	165	13	5.8
TOTAL	11056	---	9685.93	40394	---	203409.6	17619	---	22337.4

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY				JUNE	
1	157	10	4.2						
2	151	9	3.7						
3	139	8	3.0						
4	132	7	2.5						
5	127	6	2.1						
6	120	5	1.6						
7	115	5	1.6						
8	111	5	1.5						
9	107	3	.87						
10	103	4	1.1						
11	98	3	.79						
12	114	3	.92						
13	117	2	.63						
14	113	4	1.2						
15	112	3	.91						
16	134	10	3.6						
17	166	13	5.8						
18	141	5	1.9						
19	128	4	1.4						
20	122	3	.99						
21	113	3	.92						
22	105	3	.85						
23	99	3	.80						
24	94	3	.76						
25	112	6	1.8						
26	98	3	.79						
27	93	2	.50						
28	92	2	.50						
29	86	2	.46						
30	83	3	.67						
31	---	---	---						
TOTAL	3482	---	48.36						
PERIOD	83886.30		239825.58						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO APRIL 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	794.30	147.98	0	148
NOVEMBER ...	2494.00	492.31	113	605
DECEMBER ...	8047.00	3704.00	1160	4860
JANUARY 1986	11056.00	9685.93	2050	11700
FEBRUARY ...	40394.00	203409.60	16700	220000
MARCH	17619.00	22337.40	4540	26900
APRIL	3482.00	48.36	0	48
PERIOD	83886.30	239825.58	24563	264261

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
FEB									
15...	1555	2260	8.0	1330	8120	11	14	19	27
16...	1315	4750	10.0	4200	53900	15	23	29	40
MAR									
07...	0900	832	11.5	1300	2920	31	32	39	52
07...	1200	1810	11.5	3000	14700	18	20	28	37
07...	1500	2300	11.0	2290	14200	20	20	26	35
08...	0815	1910	9.5	1340	6910	--	--	--	--
08...	1600	2460	9.0	1960	13000	--	--	--	--
08...	1815	2450	9.0	1480	9790	--	--	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEB									
15...		36	47	--	59	71	86	94	100
16...		52	60	--	75	88	96	99	100
MAR									
07...		64	72	--	81	90	97	100	--
07...		47	55	--	65	75	87	95	100
07...		43	52	--	61	71	85	95	98
08...		--	41	--	47	55	72	91	98
08...		--	40	--	48	57	72	87	96
08...		--	43	--	52	64	80	93	98

REDWOOD CREEK BASIN

11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank at private road bridge, 0.3 mi upstream from mouth, and 19 mi southeast of Orick.

DRAINAGE AREA.--16.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. No regulation or diversion above gage.

AVERAGE DISCHARGE.--6 years, 79.5 ft³/s, 57,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,070 ft³/s, Feb. 17, 1986, gage height, 27.03 ft; minimum daily, 0.27 ft³/s, Sept. 9-13, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 880 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1315	1,870	26.43	Mar. 7	1100	922	26.10
Feb. 17	1815	*3,070	*27.03				

Minimum daily, 0.27 ft³/s, Sept. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	3.1	124	14	135	65	24	22	10	4.0	1.1	.45
2	.65	2.9	479	27	258	56	23	89	10	3.8	1.1	.41
3	.60	2.5	377	49	432	49	21	83	10	3.7	1.0	.37
4	.57	2.4	197	33	346	43	20	61	9.7	3.9	.96	.34
5	.53	2.3	199	56	245	39	20	121	9.5	3.6	.91	.31
6	.53	2.1	247	62	152	37	19	261	9.5	3.3	.93	.30
7	.53	2.0	362	48	110	494	18	208	9.4	3.2	.88	.28
8	.53	2.1	344	57	89	639	17	129	9.2	3.1	.83	.27
9	.53	13	240	51	75	466	17	96	8.7	3.0	.80	.27
10	.50	27	144	41	65	371	16	79	8.0	2.9	.79	.27
11	.52	14	97	36	57	455	15	68	7.6	2.8	.75	.27
12	.60	9.1	73	32	103	348	25	58	6.7	2.8	.73	.27
13	.60	7.0	58	30	203	357	23	51	5.8	2.6	.71	.27
14	.60	5.9	47	55	191	292	20	43	5.6	2.4	.66	.29
15	.60	40	39	83	410	186	21	35	6.1	2.2	.65	.64
16	.57	62	34	1030	1050	120	30	34	6.0	2.1	.67	1.1
17	.56	46	29	430	1620	93	37	31	8.9	2.1	.70	12
18	.56	37	26	227	1300	77	30	28	13	2.2	.70	21
19	.56	25	23	200	977	66	25	27	7.9	2.2	.70	14
20	1.7	20	20	164	801	57	22	27	7.2	2.0	.66	5.3
21	8.1	17	19	122	695	52	22	31	6.7	1.9	.61	3.3
22	68	15	17	144	840	47	22	24	6.1	1.7	.57	2.5
23	79	20	16	235	572	47	21	21	5.7	1.7	.52	2.3
24	26	35	15	171	331	55	17	19	5.1	1.6	.45	25
25	13	29	14	121	197	44	19	18	4.8	1.4	.41	96
26	8.5	21	14	103	137	39	17	16	4.4	1.4	.40	157
27	6.3	28	12	91	96	36	17	15	4.5	1.4	.40	73
28	5.4	193	12	72	78	33	17	14	4.4	1.4	.41	36
29	4.4	108	11	118	---	30	15	13	4.6	1.3	.50	25
30	3.9	67	11	112	---	28	14	12	4.2	1.3	.53	19
31	3.4	---	10	103	---	26	---	11	---	1.2	.49	---
TOTAL	238.52	858.4	3310	4117	11565	4747	624	1745	219.3	74.2	21.52	497.51
MEAN	7.69	28.6	107	133	413	153	20.8	56.3	7.31	2.39	.69	16.6
MAX	79	193	479	1030	1620	639	37	261	13	4.0	1.1	157
MIN	.50	2.0	10	14	57	26	14	11	4.2	1.2	.40	.27
AC-FT	473	1700	6570	8170	22940	9420	1240	3460	435	147	43	987
CAL YR 1985	TOTAL	12647.55	MEAN	34.7	MAX	549	MIN	.50	AC-FT	25090		
WTR YR 1986	TOTAL	28017.45	MEAN	76.8	MAX	1620	MIN	.27	AC-FT	55570		

REDWOOD CREEK BASIN

11482110 LACKS CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-76, 1978 to current year.

CHEMICAL DATA: Water years 1975-76, 1978.

SEDIMENT DATA: Water years 1975, 1978 to current year.

REMARKS.--Prior to October 1975, published in U.S. Geological Survey Open-File Report 76-678, "Redwood National Park Studies."

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
07...	1130	0.53	--	6	0.01
NOV					
05...	1300	2.3	10.0	5	0.03
DEC					
12...	1135	73	4.0	17	3.4
JAN					
07...	1155	48	6.0	9	1.2
28...	1115	70	10.0	11	2.1
FEB					
15...	1145	260	10.0	46	32
26...	1615	125	13.0	23	7.8
MAR					
24...	1515	54	12.0	10	1.5
APR					
23...	1615	18	13.0	3	0.15

REDWOOD CREEK BASIN

11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft upstream from Panther Creek, 2.0 mi upstream from south boundary of Redwood National Park, 16 mi southeast of Orick, and 28 mi upstream from mouth.

DRAINAGE AREA.--150 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 1-21. Records fair.

AVERAGE DISCHARGE.--6 years, 654 ft³/s, 473,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft³/s, Feb. 17, 1986, gage height, 17.49 ft; minimum daily, 5.8 ft³/s, Sept. 8-14, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2000	9,000	12.18	Mar. 8	1915	5,530	9.33
Feb. 17	1830	*19,700	*17.49				

Minimum daily, 5.8 ft³/s, Aug. 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	35	464	163	1040	864	331	162	131	44	24	8.4
2	10	32	2190	239	2050	684	320	476	119	42	23	8.4
3	10	30	2230	443	3360	539	303	527	117	41	22	8.3
4	9.7	29	1200	300	2770	489	288	406	111	41	21	7.7
5	9.2	29	1210	388	2010	626	269	636	107	41	20	7.3
6	21	27	1460	485	1500	586	251	1170	110	41	20	6.9
7	12	26	2030	382	1200	2960	240	1020	108	40	19	6.3
8	9.0	26	2010	391	987	4440	232	782	98	39	18	5.8
9	8.9	59	1480	363	830	3540	221	659	92	39	17	5.8
10	8.9	212	1040	309	701	2780	211	572	80	37	17	5.8
11	8.9	121	774	274	615	3360	205	494	75	37	16	5.8
12	8.9	86	610	251	925	2610	247	428	72	38	15	5.8
13	8.9	70	515	237	1670	2550	257	377	67	38	14	5.8
14	9.4	60	453	358	1750	2230	225	344	63	36	13	5.8
15	9.4	137	412	659	3750	1800	227	320	67	34	13	8.7
16	9.4	368	371	4870	8690	1460	267	302	66	31	12	14
17	9.4	252	333	3940	13100	1230	335	279	76	31	11	66
18	9.4	225	304	1910	10300	1040	287	260	109	31	11	108
19	9.4	166	275	1560	8070	920	253	249	75	31	10	108
20	14	136	254	1320	7120	823	233	247	65	31	10	54
21	67	123	235	994	6160	756	217	268	59	31	10	37
22	352	113	218	957	7540	685	201	245	56	30	9.7	30
23	556	121	203	1370	5120	658	195	222	53	30	9.4	27
24	222	222	193	1080	3170	707	183	201	51	28	9.3	88
25	116	248	186	845	2220	598	205	188	48	27	8.9	356
26	81	183	179	686	1710	535	191	180	45	27	8.9	810
27	64	174	171	586	1410	495	171	178	44	26	8.9	493
28	54	1170	164	513	1110	455	169	171	44	26	8.8	200
29	49	699	159	762	---	414	159	163	43	25	8.4	122
30	43	437	157	966	---	379	149	151	43	25	8.4	89
31	38	---	150	774	---	352	---	142	---	25	8.4	---
TOTAL	1847.8	5616	21630	28375	100878	41565	7042	11819	2294	1043	425.1	2704.6
MEAN	59.6	187	698	915	3603	1341	235	381	76.5	33.6	13.7	90.2
MAX	556	1170	2230	4870	13100	4440	335	1170	131	44	24	810
MIN	8.9	26	150	163	615	352	149	142	43	25	8.4	5.8
AC-FT	3670	11140	42900	56280	200100	82440	13970	23440	4550	2070	843	5360

CAL YR 1985	TOTAL	101016.8	MEAN	277	MAX	4030	MIN	7.8	AC-FT	200400
WTR YR 1986	TOTAL	225239.5	MEAN	617	MAX	13100	MIN	5.8	AC-FT	446800

REDWOOD CREEK BASIN

11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-76, 1980 to current year.

CHEMICAL DATA: Water years 1974-75.

SEDIMENT DATA: Water years 1974-76, 1980 to current year.

REMARKS.--Prior to October 1975, published in U.S. Geological Survey Open-File Report 76-678, "Redwood National Park Studies." Zero bedload discharge observed for flows less than 225 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
09...	0930	8.9	--	9	0.22	--	--	--
NOV								
06...	1300	26	--	3	0.21	--	--	--
DEC								
10...	1300	1050	7.0	36	102	--	--	--
JAN								
08...	1330	417	8.0	11	12	--	--	--
16...	1315	6740	--	2430	44200	18	28	31
17...	1115	3700	10.0	823	8220	--	--	--
17...	1415	3430	10.0	670	6200	--	--	--
30...	0940	1040	10.0	150	421	--	--	--
FEB								
03...	1300	3720	8.0	747	7500	--	--	--
04...	1330	2620	10.0	305	2160	--	--	--
15...	0945	3060	9.0	806	6660	19	21	31
15...	1210	3020	9.5	842	6870	--	--	--
28...	1615	1050	13.0	148	420	--	--	--
MAR								
26...	1440	530	12.0	44	63	--	--	--
APR								
21...	1200	220	14.5	5	3.0	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM
OCT								
09...	--	--	--	--	--	--	--	--
NOV								
06...	--	--	--	--	--	--	--	--
DEC								
10...	--	--	70	--	--	--	--	--
JAN								
08...	--	--	--	--	--	--	--	--
16...	45	60	69	80	89	96	98	100
17...	--	--	60	69	81	93	99	100
17...	--	--	55	63	74	88	98	100
30...	--	--	75	--	--	--	--	--
FEB								
03...	--	--	57	--	--	--	--	--
04...	--	--	62	--	--	--	--	--
15...	44	55	65	73	80	88	92	95
15...	--	--	61	68	75	83	88	89
28...	--	--	71	--	--	--	--	--
MAR								
26...	--	--	70	--	--	--	--	--
APR								
21...	--	--	--	--	--	--	--	--

REDWOOD CREEK BASIN

11482125 PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'19", long 123°54'26", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 300 ft upstream from mouth, 16 mi southeast of Orick.

DRAINAGE AREA.--6.07 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--7 years, 29.5 ft³/s, 21,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 839 ft³/s, Feb. 17, 1986, gage height, 4.28 ft; minimum daily, 0.46 ft³/s, Oct. 11, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1800	*839	*4.28				

Minimum daily, 0.46 ft³/s, Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	2.9	19	13	56	60	18	12	9.3	4.4	2.0	.89
2	.65	2.9	44	18	84	51	17	23	8.9	4.3	2.0	.89
3	.65	2.9	48	18	116	51	16	28	8.9	4.1	1.7	.89
4	.65	2.9	38	15	114	46	16	20	8.6	4.3	1.7	.82
5	.65	2.7	38	20	107	34	15	26	8.1	4.1	1.7	.75
6	.55	2.6	42	18	94	29	14	40	8.1	3.8	1.5	.75
7	.55	2.6	59	17	80	82	14	36	7.9	3.8	1.5	.75
8	.55	2.8	71	20	68	102	13	32	7.7	3.8	1.5	.65
9	.55	5.8	61	18	60	108	13	29	7.5	3.8	1.5	.65
10	.52	7.5	52	17	53	107	12	27	7.2	3.5	1.5	.65
11	.46	5.8	44	17	47	117	11	25	6.8	3.5	1.4	.65
12	.50	4.9	39	16	49	109	15	24	6.6	3.5	1.3	.65
13	.55	4.1	33	16	55	129	13	22	6.4	3.5	1.3	.65
14	.55	3.8	31	21	53	113	12	21	6.6	3.2	1.3	.65
15	.55	6.6	28	24	75	96	13	20	6.5	3.2	1.1	.81
16	.55	8.9	25	109	211	78	16	19	6.3	2.9	1.1	1.2
17	.55	8.4	23	110	420	64	14	18	7.7	2.9	1.1	5.1
18	.55	8.1	21	93	368	57	13	18	7.8	2.9	1.1	9.0
19	.55	7.0	19	90	355	48	12	17	6.7	2.6	1.1	4.7
20	2.8	6.9	18	78	304	42	11	17	6.1	2.6	1.1	2.8
21	5.6	6.6	17	70	273	39	11	17	5.9	2.6	1.1	2.2
22	25	6.6	16	72	338	35	9.9	16	5.7	2.6	1.1	2.0
23	29	7.6	15	81	290	34	9.5	15	5.4	2.3	1.1	1.9
24	11	9.9	14	72	190	33	9.0	14	5.1	2.3	1.0	7.1
25	6.9	9.1	13	65	140	29	10	13	4.8	2.3	.89	20
26	5.6	8.0	13	59	109	26	8.9	13	4.8	2.0	.89	26
27	4.5	9.5	12	56	84	25	8.9	12	4.8	2.0	.89	11
28	4.3	26	12	52	72	23	8.7	12	4.8	2.1	.89	6.6
29	3.8	21	11	59	---	21	8.3	11	4.8	2.0	.97	6.0
30	3.6	17	11	54	---	20	8.0	10	4.7	2.0	1.1	5.6
31	3.4	---	10	53	---	19	---	9.7	---	2.0	1.0	---
TOTAL	116.38	221.4	897	1441	4265	1827	370.2	616.7	200.5	94.9	39.43	122.30
MEAN	3.75	7.38	28.9	46.5	152	58.9	12.3	19.9	6.68	3.06	1.27	4.08
MAX	29	26	71	110	420	129	18	40	9.3	4.4	2.0	26
MIN	.46	2.6	10	13	47	19	8.0	9.7	4.7	2.0	.89	.65
AC-FT	.231	.439	1780	2860	8460	3620	734	1220	398	188	78	243

CAL YR 1985	TOTAL	4831.34	MEAN	13.2	MAX	100	MIN	.46	AC-FT	9580
WTR YR 1986	TOTAL	10211.81	MEAN	28.0	MAX	420	MIN	.46	AC-FT	20260

REDWOOD CREEK BASIN

11482125 PANTHER CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER TEMPERATURE: Water year 1980.

SEDIMENT DATA: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
08...	1300	0.55	11.0	3	0.00	--
NOV						
06...	1500	2.6	9.5	1	0.01	--
DEC						
11...	1440	44	6.5	10	1.2	--
JAN						
06...	1510	18	8.0	11	0.53	--
17...	1520	107	10.0	102	29	--
18...	1125	94	8.0	50	13	--
30...	1000	55	10.0	7	1.0	--
FEB						
03...	1150	123	8.0	108	36	52
04...	1615	113	10.0	44	13	55
15...	1435	67	9.5	60	11	--
19...	1345	354	10.0	904	864	52
27...	1555	80	13.0	106	23	--
27...	1610	79	13.0	92	20	--
MAR						
26...	1135	26	10.0	9	0.63	--
APR						
21...	1040	11	10.0	2	0.06	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN									
30...	1125	10.0	19	55	20.0	1.5	0	--	1
30...	1130	10.0	19	55	20.0	1.5	--	--	2
FEB									
15...	1400	9.5	20	60	20.5	2.0	--	1	10
15...	1420	9.5	20	64	20.5	2.3	1	3	100
DATE									
		SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN									
30...	6	14	26	43	63	79	100	--	--
30...	10	34	64	90	100	--	--	--	--
FEB									
15...	33	57	70	83	90	100	--	--	--
15...	43	69	84	92	98	100	--	--	--

REDWOOD CREEK BASIN

11482130 COYOTE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'03", long 123°54'34", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on left bank 300 ft downstream from small left-bank tributary, 1,900 ft upstream from mouth, and 15 mi southeast of Orick.

DRAINAGE AREA.--7.78 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1982, October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 9, 1980, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 40.2 ft³/s, 29,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s, Dec. 19, 1981, gage height, 5.98 ft; minimum daily, 0.10 ft³/s, Sept. 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1730	840	4.13	Mar. 7	1030	792	4.79
Feb. 17	1630	*1,150	*5.30				

Minimum daily, 0.29 ft³/s, Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	AY	JUN	JUL	AUG	SEP
1	.32	1.8	53	7.0	87	26	12	14	5.1	1.8	.56	.40
2	.32	1.7	224	30	206	22	11	83	4.8	1.8	.56	.40
3	.32	1.7	146	34	305	19	10	96	4.8	1.7	.54	.37
4	.32	1.6	80	22	182	17	9.4	44	4.5	1.8	.49	.37
5	.29	1.5	88	50	99	15	9.1	67	4.3	1.8	.50	.35
6	.29	1.4	144	40	71	14	8.5	150	4.3	1.6	.46	.35
7	.29	1.4	203	30	55	336	8.1	96	4.1	1.6	.46	.35
8	.31	1.6	193	42	42	334	7.9	61	4.0	1.6	.46	.35
9	.32	7.1	97	36	34	215	7.7	43	3.9	1.6	.48	.35
10	.32	14	66	29	28	205	7.2	33	3.6	1.5	.48	.36
11	.32	8.4	46	25	25	251	6.5	25	3.2	1.4	.46	.37
12	.34	6.2	35	22	65	179	11	21	3.1	1.2	.46	.37
13	.35	4.9	28	21	88	211	9.5	18	2.9	1.2	.45	.37
14	.35	4.1	23	43	105	146	8.1	16	3.0	1.1	.43	.39
15	.35	21	19	61	233	100	9.0	14	3.1	1.1	.42	.59
16	.35	31	17	466	567	68	21	12	2.9	.98	.43	.79
17	.35	23	14	190	671	50	21	11	4.0	.98	.41	4.9
18	.35	19	12	99	431	39	14	10	5.9	.98	.40	15
19	.35	13	11	91	385	32	12	9.6	4.1	.97	.40	8.5
20	1.5	11	10	73	319	28	11	10	3.5	.93	.40	3.8
21	4.9	9.1	9.3	54	321	25	9.9	13	3.2	.88	.40	2.6
22	53	8.1	8.6	79	391	22	9.7	9.9	2.9	.84	.40	2.0
23	49	14	7.8	136	277	25	8.9	8.7	2.8	.83	.40	2.2
24	16	24	7.2	81	153	41	8.3	8.0	2.5	.74	.40	9.5
25	7.9	18	6.9	59	97	27	9.3	7.5	2.3	.73	.40	58
26	5.2	13	6.5	46	68	21	7.9	7.1	2.2	.67	.40	89
27	3.9	25	6.0	38	47	19	7.9	7.1	2.0	.67	.40	33
28	3.4	130	5.7	31	33	16	7.8	6.7	2.0	.67	.40	15
29	2.8	58	5.6	61	---	14	7.3	6.4	2.0	.66	.44	10
30	2.3	35	5.3	59	---	13	6.9	5.7	2.0	.63	.46	7.9
31	2.0	---	5.3	59	---	12	---	5.2	---	.62	.45	---
TOTAL	158.11	509.6	1583.2	2114.0	5385	2542	297.9	918.9	103.0	35.58	13.80	267.93
MEAN	5.10	17.0	51.1	68.2	192	82.0	9.93	29.6	3.43	1.15	.45	8.93
MAX	53	130	224	466	671	336	21	150	5.9	1.8	.56	89
MIN	.29	1.4	5.3	7.0	25	12	6.5	5.2	2.0	.62	.40	.35
AC-FT	314	1010	3140	4190	10680	5040	591	1820	204	71	27	531

CAL YR 1985	TOTAL	5977.55	MEAN	16.4	MAX	286	MIN	.24	AC-FT	11860
WTR YR 1986	TOTAL	13929.02	MEAN	38.2	MAX	671	MIN	.29	AC-FT	27630

REDWOOD CREEK BASIN

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979-83, October 1984 to current year.

WATER TEMPERATURE: December 1979 to September 1980.

SEDIMENT DATA: November 1979-83, October 1984 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE : December 1979 to September 1980.

REMARKS.--Prior to October 1975, published in U.S. Geological Survey Open-File Report 76-678, "Redwood National Park Studies."

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
08...	1045	0.29	10.5	4	0.00	--	--	--
NOV								
06...	0900	1.4	9.5	3	0.01	--	--	--
DEC								
11...	1400	44	5.5	12	1.4	--	--	--
JAN								
06...	1310	36	7.5	7	0.68	--	--	--
16...	1445	660	11.0	1570	2800	10	15	24
16...	1620	740	11.0	2440	4880	22	32	36
30...	1230	60	10.5	17	2.8	--	--	--
FEB								
06...	1145	71	8.5	22	4.2	--	--	--
27...	1300	36	13.0	23	2.2	--	--	--
APR								
21...	1440	10	17.0	6	0.16	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
08...	--	--	--	--	--	--	--	--
NOV								
06...	--	--	--	--	--	--	--	--
DEC								
11...	--	--	--	--	--	--	--	--
JAN								
06...	--	--	--	--	--	--	--	--
16...	38	55	62	73	81	87	93	98
16...	50	62	71	79	85	89	92	100
30...	--	--	--	--	--	--	--	--
FEB								
06...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
APR								
21...	--	--	--	--	--	--	--	--

REDWOOD CREEK BASIN

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 124°01'10", in NE 1/4 SE 1/4 sec.23, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 0.8 mi upstream from mouth, and 3.2 mi northeast of Orick.

DRAINAGE AREA.--3.46 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to September 1982, October 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 2-6, Jan. 2, 3, 23-29. Records good above 1.0 ft³/s and fair below, except for periods of estimated daily record which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 10.6 ft³/s, 7,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft³/s, Mar. 18, 1975, gage height, 4.32 ft; minimum daily, 0.10 ft³/s, Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1900	*787	*4.28	Feb. 22	1900	347	3.41

Minimum daily, 0.12 ft³/s, Oct. 6-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	1.3	6.4	2.5	9.7	17	5.8	6.1	2.7	1.2	.57	.35
2	.15	1.2	18	4.0	33	13	5.3	11	2.6	1.1	.51	.35
3	.15	1.2	20	5.0	72	11	5.1	24	2.6	1.1	.47	.33
4	.15	1.1	14	3.5	66	9.8	4.9	16	2.4	1.1	.46	.32
5	.13	1.1	13	7.1	39	8.9	4.7	30	2.5	1.1	.49	.32
6	.12	1.0	20	8.0	25	8.7	4.4	55	2.4	.99	.51	.32
7	.12	.93	31	6.0	20	39	4.2	47	2.3	.98	.46	.32
8	.12	1.1	73	7.8	19	58	3.9	32	2.2	.98	.46	.32
9	.12	4.4	53	8.1	18	68	3.8	23	2.1	.98	.46	.32
10	.12	7.4	38	6.8	16	58	3.6	16	2.0	.98	.46	.32
11	.12	6.2	26	5.8	14	52	3.4	12	1.9	.98	.46	.32
12	.12	4.8	19	4.7	16	41	6.0	11	1.9	.98	.46	.32
13	.12	3.7	13	3.9	21	64	4.9	10	1.7	.91	.44	.32
14	.12	3.0	11	6.5	27	65	4.2	9.0	1.7	.84	.44	.31
15	.12	3.5	8.9	15	37	45	4.7	7.9	1.7	.84	.44	.31
16	.12	5.9	7.4	32	113	33	12	6.9	1.7	.84	.44	.35
17	.12	6.1	6.1	47	230	24	15	6.2	1.9	.84	.44	.91
18	.12	5.5	5.2	32	180	18	13	5.7	2.0	.84	.44	3.8
19	.12	4.7	4.4	34	299	15	10	5.3	1.6	.84	.44	1.8
20	2.4	4.3	3.8	31	159	12	9.0	5.7	1.5	.77	.44	.60
21	2.9	3.9	3.4	22	103	12	7.6	6.2	1.5	.76	.42	.42
22	18	3.5	3.1	16	226	10	6.4	5.0	1.5	.76	.41	.41
23	25	3.6	2.8	22	183	12	5.8	4.6	1.4	.74	.41	.50
24	7.7	3.9	2.6	15	95	14	5.2	4.2	1.3	.69	.41	4.3
25	4.1	3.9	2.3	11	64	12	5.1	3.8	1.3	.69	.39	6.9
26	2.8	3.6	2.2	9.0	44	11	4.4	3.7	1.2	.69	.36	15
27	2.3	3.8	2.1	8.0	34	9.9	4.4	3.6	1.1	.69	.35	5.9
28	2.3	11	1.9	7.4	23	9.1	4.3	3.6	1.2	.62	.35	2.5
29	1.8	11	1.8	6.8	---	8.1	3.8	3.3	1.2	.57	.35	1.7
30	1.6	7.2	1.7	7.2	---	7.0	3.6	3.1	1.2	.57	.35	1.3
31	1.4	---	1.6	6.5	---	6.4	---	2.9	---	.57	.35	---
TOTAL	74.69	123.83	416.7	401.6	2185.7	771.9	178.5	383.8	54.3	26.54	13.44	51.24
MEAN	2.41	4.13	13.4	13.0	78.1	24.9	5.95	12.4	1.81	.86	.43	1.71
MAX	25	11	73	47	299	68	15	55	2.7	1.2	.57	15
MIN	.12	.93	1.6	2.5	9.7	6.4	3.4	2.9	1.1	.57	.35	.31
AC-FT	148	246	827	797	4340	1530	354	761	108	53	27	102

CAL YR 1985	TOTAL	1822.50	MEAN	4.99	MAX	73	MIN	.12	AC-FT	3610
WTR YR 1986	TOTAL	4682.24	MEAN	12.8	MAX	299	MIN	.12	AC-FT	9290

REDWOOD CREEK BASIN

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-82, October 1984 to current year.

CHEMICAL DATA: Water years 1974-77.

SEDIMENT DATA: Water years 1974-76, 1978-82, October 1984 to current year.

REMARKS.--Prior to October 1975, published in U.S. Geological Survey Open-File Report 76-678, "Redwood National Park Studies."

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
04...	1155	1.0	10.5	3	0.01	--
DEC						
06...	1350	20	9.5	4	0.22	--
JAN						
03...	1210	4.9	7.5	6	0.08	--
29...	1235	6.8	--	3	0.05	--
FEB						
03...	1200	70	9.0	107	20	58
05...	1200	41	9.5	10	1.1	--
14...	1130	23	10.0	6	0.37	--
17...	1125	110	10.0	105	31	49
MAR						
02...	1335	13	11.0	6	0.21	--
25...	1035	12	9.5	7	0.23	--
APR						
23...	0850	5.8	8.0	2	0.03	--

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'18", long 124°03'27", in NE 1/4 NE 1/4 sec.4, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi downstream from Prairie Creek.

DRAINAGE AREA.--278 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 5.16 ft above National Geodetic Vertical Datum 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--35 years, 1,080 ft³/s, 782,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s, Dec. 22, 1964, gage height, 24.0 ft, from outside high-water marks; minimum daily, 9.3 ft³/s, Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft, from floodmarks, discharge, 50,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2115	*30,700	*19.75				

Minimum daily, 11 ft³/s, Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	82	762	228	1860	1730	654	347	262	103	38	18
2	15	77	2850	295	3130	1480	630	741	250	103	36	17
3	16	72	3700	738	5850	1310	589	1170	245	99	35	17
4	15	67	1950	518	5320	1180	555	864	239	96	34	16
5	15	63	1830	655	3650	1170	531	1070	229	95	32	16
6	15	59	1890	827	2710	1000	501	2090	229	92	30	15
7	18	58	3210	672	2090	3890	471	2130	227	90	29	15
8	20	60	3720	692	1710	6300	458	1580	215	89	29	14
9	15	138	2860	714	1440	6070	435	1270	203	84	28	13
10	13	471	1900	608	1220	4670	415	1080	191	82	28	13
11	12	362	1350	536	1050	5410	399	940	179	80	27	13
12	12	235	1010	474	1310	4550	471	845	172	79	26	12
13	12	178	840	438	2420	4940	526	770	168	76	25	12
14	12	143	728	595	2350	4450	438	710	166	73	25	12
15	12	145	649	1230	4570	3570	455	656	166	68	24	12
16	12	592	576	5540	13700	2890	631	614	162	64	23	15
17	12	531	511	6860	18500	2350	700	562	160	61	23	44
18	12	471	461	3550	19800	1920	619	520	201	61	23	192
19	11	349	416	2820	16200	1570	531	492	182	61	22	269
20	31	280	378	2360	13400	1380	477	483	159	59	22	143
21	192	248	345	1820	10200	1280	445	521	151	57	22	86
22	600	225	314	1660	14200	1160	416	484	142	55	21	60
23	1520	222	289	2630	11700	1120	390	432	135	53	21	50
24	708	355	268	2160	6310	1290	372	398	128	51	21	124
25	352	479	249	1740	4300	1090	380	371	120	49	19	409
26	226	365	236	1460	3280	981	374	352	106	48	18	1050
27	167	303	223	1270	2600	905	350	347	111	47	18	954
28	148	1700	211	1140	2100	835	345	337	111	45	18	428
29	123	1420	202	1390	---	776	327	315	111	44	18	251
30	106	956	197	1690	---	727	313	295	105	42	18	184
31	93	---	190	1450	---	690	---	275	---	39	18	---
TOTAL	4529	10706	34315	48760	176970	72684	14198	23061	5225	2145	771	4474
MEAN	146	357	1107	1573	6320	2345	473	744	174	69.2	24.9	149
MAX	1520	1700	3720	6860	19800	6300	700	2130	262	103	38	1050
MIN	11	58	190	228	1050	690	313	275	105	39	18	12
AC-FT	8980	21240	68060	96720	351000	144200	28160	45740	10360	4250	1530	8870

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.

CHEMICAL DATA: Water years 1959-66, 1973-81.

WATER TEMPERATURE: Water years 1966 to current year.

SEDIMENT DATA: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1965 to September 1981, October 1981 to current year (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: March 1970 to September 1981, October 1981 to current year (storm season only).

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 24.0°C, July 10, 1976; minimum recorded, 1.0°C, Dec. 14, 1967.

SEDIMENT CONCENTRATION: Maximum daily mean, 9,610 mg/L, Mar. 18, 1975; minimum daily mean, 1 mg/L on many days in 1970, 1973-74, 1976, 1978-81, several days in 1983-84 and Oct. 1, 24, 25, 1984.

SEDIMENT LOAD: Maximum daily, 1,070,000 tons, Mar. 18, 1975; minimum daily, 0.03 ton, Oct. 7, 8, 11, 12, 1970, Oct. 9, 10, 1979, and several days during 1981.

EXTREMES FOR CURRENT YEAR (storm season only).--

WATER TEMPERATURE: Maximum observed, 19.0°C, Oct. 2; minimum observed, 5.0°C, Dec. 13.

SEDIMENT CONCENTRATION: Maximum daily mean, 2,870 mg/L, Feb. 18; minimum daily mean, 2 mg/L, Oct. 6-12, Oct. 30 to Nov. 1.

SEDIMENT LOAD: Maximum daily, 164,000 tons, Feb. 18; minimum daily, 0.06 ton, Oct. 11, 12.

RATURE (DEG. C) OF WATER, WATER YEAR YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	---	10.5	10.0	11.5	11.5					
2	19.0	---	---	9.0	9.5	11.0	11.0					
3	17.5	---	---	10.0	10.0	13.0	11.5					
4	---	14.0	10.0	10.0	9.0	13.0	12.0					
5	---	14.0	9.5	10.5	9.5	12.5	14.0					
6	16.0	14.0	10.0	10.0	9.0	12.0	15.0					
7	---	13.0	10.0	8.0	8.5	12.5	12.0					
8	---	11.5	8.5	9.5	9.0	11.5	12.0					
9	---	10.0	8.0	10.5	---	10.0	14.5					
10	---	9.0	8.0	9.0	8.5	10.5	14.5					
11	13.0	8.5	8.0	10.0	9.5	10.5	13.0					
12	---	10.5	6.5	9.5	9.5	10.5	11.5					
13	---	10.0	5.0	8.5	11.0	9.5	13.5					
14	18.0	10.0	6.5	9.5	11.0	9.5	13.0					
15	---	10.0	8.0	9.0	10.0	8.5	12.5					
16	---	9.0	8.0	11.0	11.0	---	11.0					
17	---	9.0	9.5	12.0	11.0	11.0	13.0					
18	14.5	8.5	7.0	11.5	11.0	12.5	14.0					
19	---	7.0	8.5	10.5	10.5	11.0	15.0					
20	14.0	8.0	7.5	9.0	10.0	---	15.5					
21	---	---	8.5	8.0	10.0	11.5	15.0					
22	---	8.0	6.5	9.0	11.0	12.0	14.5					
23	13.0	---	7.0	9.0	11.5	12.0	14.0					
24	---	---	7.5	8.5	11.0	12.0	12.0					
25	15.0	---	---	9.5	11.5	12.0	14.0					
26	---	8.0	7.0	10.0	14.0	12.5	12.5					
27	---	7.5	7.0	10.0	12.0	12.5	12.5					
28	15.0	---	7.5	11.0	12.0	15.0	15.0					
29	---	---	9.0	11.0	---	13.5	---					
30	12.5	---	9.0	11.0	---	13.0	10.5					
31	14.5	---	9.0	11.0	---	14.5	---					
MONTH	---	---	8.0	10.0	10.5	12.0	13.0					

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	14	3	.11	82	2	.44	762	57	128
2	15	3	.12	77	3	.62	2850	722	7600
3	16	3	.13	72	4	.78	3700	539	5390
4	15	3	.12	67	6	1.1	1950	154	811
5	15	3	.12	63	3	.51	1830	198	978
6	15	2	.08	59	4	.64	1890	207	1230
7	18	2	.10	58	4	.63	3210	387	3380
8	20	2	.11	60	5	.81	3720	231	2320
9	15	2	.08	138	11	5.4	2860	127	977
10	13	2	.07	471	45	58	1900	75	384
11	12	2	.06	362	10	9.8	1350	68	249
12	12	2	.06	235	5	3.2	1010	45	123
13	12	3	.10	178	3	1.4	840	27	61
14	12	3	.10	143	3	1.2	728	20	39
15	12	3	.10	145	5	2.0	649	20	35
16	12	4	.13	592	103	166	576	19	30
17	12	4	.13	531	17	24	511	45	123
18	12	3	.10	471	9	11	461	14	17
19	11	3	.09	349	7	6.6	416	10	11
20	31	10	2.1	280	6	4.5	378	9	9.2
21	192	15	7.8	248	6	4.0	345	7	6.5
22	600	145	480	225	6	3.6	314	7	5.9
23	1520	220	979	222	9	5.4	289	6	4.7
24	708	39	74	355	22	21	268	7	5.1
25	352	9	8.6	479	25	32	249	7	4.7
26	226	7	4.3	365	10	9.9	236	7	4.5
27	167	5	2.3	303	13	11	223	8	4.8
28	148	3	1.2	1700	716	3870	211	5	2.8
29	123	3	1.0	1420	154	591	202	4	2.2
30	106	2	.57	956	57	147	197	5	2.7
31	93	2	.50	---	---	---	190	5	2.6
TOTAL	4529	---	1563.28	10706	---	4993.53	34315	---	23941.7
DAY	JANUARY			FEBRUARY			MARCH		
1	228	8	4.9	1860	121	607	1730	130	606
2	295	14	17	3130	524	5450	1480	102	409
3	738	65	130	5850	794	12800	1310	85	299
4	518	16	22	5320	528	7580	1180	70	224
5	655	22	41	3650	314	3090	1170	59	188
6	827	52	116	2710	176	1290	1000	53	143
7	672	15	27	2090	94	528	3890	980	15700
8	692	15	28	1710	68	315	6300	1170	20500
9	714	14	27	1440	57	222	6070	880	14400
10	608	12	20	1220	51	167	4670	616	7770
11	536	12	17	1050	44	124	5410	803	11800
12	474	10	13	1310	83	292	4550	484	5950
13	438	8	9.5	2420	266	1860	4940	512	6820
14	595	37	79	2350	199	1360	4450	352	4220
15	1230	138	461	4570	748	9230	3570	264	2540
16	5540	2100	55800	13700	1840	68900	2890	209	1630
17	6860	1310	29300	18500	2530	157000	2350	141	893
18	3550	325	3110	19800	2870	164000	1920	116	598
19	2820	200	1530	16200	2280	103000	1570	95	402
20	2360	135	862	13400	1970	75700	1380	85	316
21	1820	90	443	10200	1540	44000	1280	75	259
22	1660	101	481	14200	1790	69500	1160	61	189
23	2630	276	1970	11700	1160	36500	1120	55	166
24	2160	97	564	6310	671	11400	1290	74	256
25	1740	64	299	4300	464	5390	1090	47	140
26	1460	50	195	3280	327	2890	981	36	96
27	1270	40	135	2600	234	1650	905	26	64
28	1140	34	105	2100	165	936	835	21	47
29	1390	79	297	---	---	---	776	18	38
30	1690	118	537	---	---	---	727	15	29
31	1450	55	216	---	---	---	690	14	26
TOTAL	48760	---	96856.4	176970	---	785781	72684	---	96718

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY				JUNE	
1	654	12	21						
2	630	11	19						
3	589	10	16						
4	555	11	16						
5	531	9	13						
6	501	8	11						
7	471	8	10						
8	458	7	8.7						
9	435	7	8.2						
10	415	6	6.7						
11	399	5	5.4						
12	471	19	24						
13	526	11	16						
14	438	7	8.3						
15	455	7	8.6						
16	631	20	34						
17	700	28	53						
18	619	13	22						
19	531	9	13						
20	477	7	9.0						
21	445	6	7.2						
22	416	6	6.7						
23	390	8	8.4						
24	372	4	4.0						
25	380	4	4.1						
26	374	4	4.0						
27	350	4	3.8						
28	345	4	3.7						
29	327	4	3.5						
30	313	4	3.4						
31	---	---	---						
TOTAL	14198	---	371.7						
PERIOD	362162		1010225.61						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO APRIL 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	4529.00	1563.28	987	2550
NOVEMBER ...	10706.00	4993.53	2580	7570
DECEMBER ...	34315.00	23941.70	11500	35400
JANUARY 1986	48760.00	96856.40	17500	114000
FEBRUARY ...	176970.00	785781.00	84100	870000
MARCH	72684.00	96718.00	27700	124000
APRIL	14198.00	371.70	3870	4240
PERIOD	362162.00	1010225.61	148237	1157760

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
17...	1335	5750	11.5	800	12400	20	25	33
FEB								
16...	1320	12300	10.0	1550	51500	16	23	33
16...	1715	16200	10.5	2420	106000	23	24	34
17...	1620	20700	11.0	3040	170000	27	28	37
18...	1020	18900	11.0	2780	142000	22	24	32
18...	1545	17300	11.0	2490	116000	--	24	32

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
------	--	--	---	---	---	---	---	---

JAN								
17...	46	59	69	78	90	97	99	100
FEB								
16...	46	60	69	80	91	99	100	--
16...	49	64	75	88	98	100	--	--
17...	53	67	78	89	98	100	--	--
18...	46	59	70	84	95	100	--	--
18...	46	59	70	85	96	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC									
04...	1445	10.0	16	1810	160	599	--	--	1
JAN									
09...	1530	10.5	14	696	115	334	--	--	--
17...	1450	12.0	21	5540	211	2080	--	--	1
29...	1610	11.0	20	1500	160	462	--	--	1
FEB									
03...	1425	10.0	19	6150	208	3070	--	--	1
16...	1500	10.0	21	13500	305	7190	--	--	2
MAR									
05...	1500	11.0	19	1080	151	416	--	--	0
28...	1220	13.5	20	842	181	139	--	--	1
APR									
23...	1155	13.0	26	390	143	100	--	--	0

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
------	---	---	---	---	---	---	---	---	---

DEC									
04...	12	35	53	76	89	98	100	--	--
JAN									
09...	9	39	65	80	92	99	100	--	--
17...	11	22	32	51	75	91	99	100	--
29...	4	8	25	55	82	98	100	--	--
FEB									
03...	3	5	19	48	76	94	99	100	--
16...	7	13	25	48	70	88	96	100	--
MAR									
05...	11	44	68	85	93	99	100	--	--
28...	4	11	36	68	86	97	100	--	--
APR									
23...	4	22	50	73	87	93	100	--	--

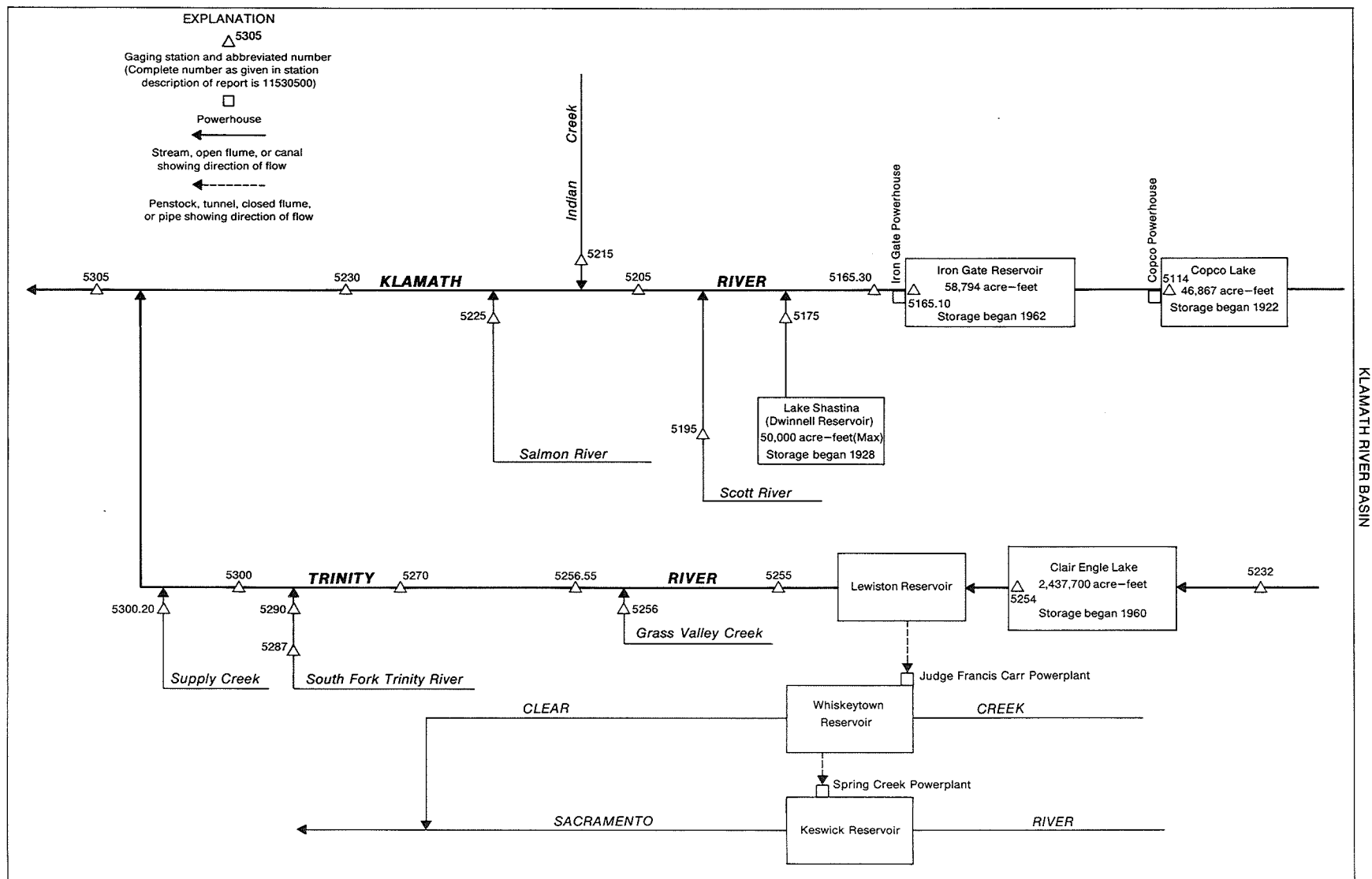


FIGURE 22. — Schematic diagram showing diversions and storage in Klamath River and Trinity River basins.

KLAMATH RIVER BASIN

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", Long 122°20'00", in SE 1/4 SW 1/4 sec.29, T.48 N., R.4 W., Siskiyou County, Hydrologic Unit 18010206, 12.7 mi northeast of Hornbrook. DRAINAGE AREA, 4,300 mi². PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Lake is formed by gravity-type dam completed in 1922. Usable capacity, 17,107 acre-ft between elevations 2,607.5 ft, top of tainter gates, and 2,588.5 ft, invert to powerhouse intake. Dead storage 29,760 acre-ft below elevation 2,588.5 ft. Figures given herein represent total contents at 0800 hours. Lake is used for power generation.

COOPERATION.--Records were provided by Pacific Power and Light Co.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 46,818 acre-ft, June 24, 1969, elevation, 2,607.45 ft; minimum since first filling, 30,360 acre-ft, Aug. 19, 1971, elevation, 2,589.24 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 46,255 acre-ft, June 8, elevation, 2,606.88 ft; minimum, 40,198 acre-ft, Mar. 19, elevation, 2,600.53 ft.

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--Lat 41°55'58", long 122°26'06", in SW 1/4 SW 1/4 sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi northeast of Hornbrook. DRAINAGE AREA, 4,573 mi². PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Reservoir is formed by earth and rockfill dam completed in 1962. Usable capacity, 58,387 acre-ft, between elevations 2,328.0 ft, crest of spillway, and 2,184.75 ft, invert to diversion tunnel. Dead storage 407 acre-ft. Normal operating pool is from elevations 2,305.0 ft, capacity, 39,963 acre-ft, to 2,328.0 ft, capacity, 58,794 acre-ft. Figures herein represent total contents at 0800 hours. Reservoir is used for power generation and recreation.

COOPERATION.--Records were provided by Pacific Power and Light Co.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 61,776 acre-ft, Mar. 3, 1972, elevation, 2,330.96 ft; minimum since first filling, 50,103 acre-ft, Dec. 9, 1968, elevation, 2,318.40 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 61,234 acre-ft, Feb. 18, elevation, 2,330.43 ft; minimum, 55,817 acre-ft, Oct. 6, elevation, 2,324.88 ft.

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
11511400 COPCO LAKE				11516510 IRON GATE RESERVOIR		
Sept. 30.....	2605.69	45089	--	2325.10	56022	--
Oct. 31.....	2606.16	45547	+458	2325.20	56116	+94
Nov. 30.....	2602.65	42177	-3370	2328.60	59388	+3272
Dec. 31.....	2603.44	42925	+748	2327.35	58163	-1225
CAL YR 1985.....	--	--	-1172	--	--	+1156
Jan. 31.....	2602.83	42347	-578	2328.54	59329	+1166
Feb. 28.....	2600.76	40410	-1937	2329.93	60723	+1394
Mar. 31.....	2602.42	41961	+1551	2328.82	59606	-1117
Apr. 30.....	2603.35	42840	+879	2327.00	57822	-1784
May 31.....	2606.02	45410	+2570	2326.27	57125	-697
June 30.....	2604.96	44381	-1029	2327.18	57997	+872
July 31.....	2604.76	44189	-192	2326.99	57812	-185
Aug. 31.....	2604.71	44141	-48	2327.22	58035	+223
Sept. 30.....	2603.08	42583	-1558	2326.78	57612	-423
WTR YR 1986.....	--	--	-2506	--	--	+1590

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE 1/4 NE 1/4 sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank 0.1 mi downstream from Bogus Creek, 0.6 mi downstream from Iron Gate Dam, and 5.9 mi northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi², approximately (not including Lost River and Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft above National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--No estimated daily discharges. Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft, Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--26 years, 2,308 ft³/s, 1,672,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 647 ft³/s, Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft³/s, Feb. 19, gage height, 10.21 ft; minimum daily, 713 ft³/s, June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	1710	3230	1750	3060	9220	3920	1760	749	723	1010	1310
2	1800	1710	3180	1660	3250	8980	4180	1770	729	729	1010	1320
3	1810	1710	3080	1670	3340	8700	4330	1770	835	731	1020	1320
4	1810	1710	3100	1690	3280	8740	4120	1770	989	731	1020	1320
5	1810	1800	3230	1710	3130	8210	4010	1780	763	732	1010	1320
6	1810	1810	3220	1710	3060	8000	4050	1770	747	732	1010	1320
7	1800	1810	3260	1710	2990	8800	3800	1770	729	732	1020	1320
8	1810	1810	3220	1700	2930	9840	3200	2180	721	731	1010	1320
9	1810	1810	3180	1680	2910	10800	3100	2350	719	722	1010	1320
10	1810	1810	3110	1670	2900	10500	2960	2360	717	718	1010	1320
11	1810	1810	3060	1670	2910	10300	3010	2380	713	716	1010	1330
12	1810	1810	3040	1670	2970	9410	3010	2380	715	716	1010	1330
13	1810	1810	3010	1670	3280	9350	3030	2380	714	728	1010	1330
14	1750	1810	3010	1670	3570	9490	3010	2370	722	730	1010	1330
15	1690	1810	3000	1670	4710	9340	2950	2170	838	729	1010	1340
16	1690	1810	2970	2530	5690	9110	2960	1790	875	728	1010	1340
17	1680	1810	2770	3620	8930	9420	3100	1790	738	730	1010	1350
18	1340	1810	2750	3190	11200	9180	2870	1790	732	729	1030	1340
19	1320	1810	2750	2710	13100	8260	2850	1790	736	729	1010	1330
20	1320	1810	2750	2680	12400	6960	2990	1650	727	730	1010	1320
21	1330	2030	2750	2990	11300	6680	3090	1400	739	729	1010	1320
22	1320	2490	2720	3080	10000	5060	3030	1250	724	729	1010	1320
23	1310	2520	2720	3070	9560	4760	2770	1060	731	729	1010	1320
24	1700	2520	2720	3080	9680	5030	2250	1020	727	729	1010	1500
25	1710	2690	2750	3050	9490	4760	2150	1020	734	727	1020	1770
26	1710	3200	2760	2980	9240	4440	1770	1020	729	726	1030	1780
27	1710	3220	2630	2980	9170	3580	1760	1020	740	727	1020	1630
28	1710	3250	2330	2980	9240	3930	1760	1030	739	726	1020	1510
29	1710	3060	2310	3000	---	3880	1760	1020	730	723	1020	1670
30	1710	3090	2210	3040	---	3820	1760	1030	724	724	1020	1790
31	1700	---	1800	3030	---	3850	---	1030	---	747	1050	---
TOTAL	51910	63860	88620	73310	177290	232400	89550	51670	22525	22562	31470	42140
MEAN	1675	2129	2859	2365	6332	7497	2985	1667	751	728	1015	1405
MAX	1810	3250	3260	3620	13100	10800	4330	2380	989	747	1050	1790
MIN	1310	1710	1800	1660	2900	3580	1760	1020	713	716	1010	1310
AC-FT	103000	126700	175800	145400	351700	461000	177600	102500	44680	44750	62420	83580

CAL YR 1985 TOTAL 712685 MEAN 1953 MAX 7830 MIN 714 AC-FT 1414000
WTR YR 1986 TOTAL 947307 MEAN 2595 MAX 13100 MIN 713 AC-FT 1879000

KLAMATH RIVER BASIN

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.--Lat 41°49'23", long 122°35'40", in SE 1/4 NE 1/4 sec.24, T.46 N., R.7 W., Siskiyou County, Hydrologic Unit 18010207, on right bank 24 mi downstream from Lake Shastina, 0.5 mi upstream from mouth, and 7 mi north of Yreka.

DRAINAGE AREA.--793 mi².

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 2,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Low flow completely regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--49 years (water years 1934-41, 1946-86), 191 ft³/s, 138,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s, Dec. 22, 1964, gage height, 12.92 ft, in gage well, 13.85 ft, from floodmarks, from rating curve extended above 4,100 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft³/s, Aug. 24, 1981, July 17, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 630 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2400	1,110	5.56	Mar. 8	2000	935	5.23
Feb. 19	1145	*2,840	*7.70				

Minimum daily, 17 ft³/s, Aug. 18, 19 and Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	175	195	171	215	408	247	134	134	59	38	37
2	98	174	201	172	272	373	304	166	126	48	42	35
3	105	174	215	171	350	334	276	192	108	45	45	23
4	102	175	205	171	339	292	233	223	112	42	42	17
5	106	177	199	179	288	276	220	238	128	44	44	27
6	112	175	197	182	247	259	208	244	123	42	39	41
7	118	174	203	176	224	356	195	225	113	52	36	47
8	110	171	205	175	214	821	171	201	88	57	29	50
9	128	172	197	175	205	786	170	162	68	48	26	66
10	139	180	191	171	199	625	157	153	67	38	36	91
11	148	181	183	168	205	578	150	164	64	46	35	66
12	144	176	179	172	201	524	147	162	58	43	24	51
13	141	173	176	172	225	474	145	148	56	43	29	55
14	141	171	176	168	241	445	147	131	63	39	29	57
15	142	176	175	170	432	418	142	133	59	31	24	57
16	147	180	173	526	734	390	135	121	52	30	25	72
17	159	180	174	862	1190	368	158	123	60	32	27	101
18	164	177	174	480	2310	342	149	116	62	31	17	122
19	158	173	173	333	2440	322	144	115	66	38	17	189
20	160	171	172	301	1820	312	146	109	62	49	24	179
21	231	172	170	260	1210	291	149	117	61	44	23	174
22	217	171	167	239	915	279	145	120	59	35	26	173
23	188	174	167	230	762	269	124	118	57	28	52	169
24	183	177	167	217	660	270	138	121	54	26	51	168
25	183	188	165	208	578	255	145	111	50	30	53	173
26	184	187	164	200	512	236	142	104	51	34	51	171
27	183	182	164	198	477	225	146	105	55	33	46	167
28	181	223	162	199	440	220	153	114	48	29	40	173
29	178	239	163	192	---	214	145	116	58	49	48	167
30	179	204	166	195	---	216	136	104	71	44	46	161
31	178	---	169	203	---	218	---	103	---	50	40	---
TOTAL	4694	5422	5587	7436	17905	11396	5067	4493	2233	1259	1104	3079
MEAN	151	181	180	240	639	368	169	145	74.4	40.6	35.6	103
MAX	231	239	215	862	2440	821	304	244	134	59	53	189
MIN	87	171	162	168	199	214	124	103	48	26	17	17
AC-FT	9310	10750	11080	14750	35510	22600	10050	8910	4430	2500	2190	6110

CAL YR 1985	TOTAL	50822.6	MEAN	139	MAX	498	MIN	1.5	AC-FT	100800
WTR YR 1986	TOTAL	69675	MEAN	191	MAX	2440	MIN	17	AC-FT	138200

KLAMATH RIVER BASIN

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE 1/4 NE 1/4 sec.29, T.44 N., R.10 W., Siskiyou County, Hydrologic Unit 18010208, on right bank 1.8 mi upstream from Snow Creek, and 9.0 mi west of Fort Jones.

DRAINAGE AREA.--653 mi².

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,623.80 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft downstream at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 10 to Dec. 5 and Dec. 21-30. Records good. Diversions for irrigation of about 30,000 acres above station.

AVERAGE DISCHARGE.--45 years, 676 ft³/s, 489,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft³/s, Dec. 22, 1964, gage height, 25.34 ft, from floodmarks, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement at 21.40 ft, site and datum then in use; minimum daily, 5.0 ft³/s, on several days during August 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0700	4,220	10.97	Mar. 8	0500	7,720	13.42
Feb. 18	0945	*15,800	*17.42				

Minimum daily, 29 ft³/s, several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	103	120	170	1650	2520	1410	578	1350	146	47	29
2	42	102	350	193	1680	2320	1280	694	1380	139	47	29
3	42	100	430	219	1750	2180	1170	893	1670	129	46	29
4	42	98	220	227	1410	2070	1110	808	1230	121	46	29
5	42	96	232	263	1120	2020	1040	740	1030	116	43	29
6	45	95	242	383	957	1990	1000	708	918	115	42	31
7	46	92	255	352	846	3740	1040	657	801	113	40	31
8	46	89	273	319	764	6690	1290	609	673	113	37	31
9	46	90	249	345	694	4400	1290	597	601	106	36	32
10	44	99	222	345	651	3480	1230	616	536	101	33	36
11	46	97	201	312	611	2940	1200	609	503	96	36	40
12	46	95	186	291	611	2560	1170	574	477	95	34	40
13	46	93	181	274	746	2300	1070	545	466	94	32	40
14	46	90	177	265	991	2060	974	574	469	91	32	40
15	46	94	170	265	4270	1900	897	590	444	89	31	40
16	46	115	165	1080	4230	1760	849	582	403	82	31	41
17	46	135	159	3570	6600	1620	820	603	344	77	30	45
18	46	128	157	2250	13500	1490	745	705	314	76	30	48
19	46	120	154	1580	9250	1400	695	843	298	75	30	53
20	47	110	150	1320	6810	1350	687	903	285	73	29	51
21	53	104	148	1040	4590	1340	789	876	250	69	29	50
22	60	97	141	888	4330	1320	1010	757	233	64	29	51
23	89	93	140	869	4570	1280	1020	668	222	65	29	51
24	124	92	138	747	3870	1410	912	631	213	65	29	52
25	129	89	135	659	3340	1320	821	742	195	64	29	53
26	126	86	132	611	3040	1250	739	1020	179	62	30	56
27	118	91	130	584	2920	1260	685	1140	170	57	30	60
28	114	99	129	583	2780	1340	700	1160	160	52	31	65
29	113	110	132	650	---	1430	672	1190	152	51	30	67
30	110	97	148	1020	---	1510	618	1310	148	50	30	67
31	106	---	158	1130	---	1490	---	1460	---	51	30	---
TOTAL	2040	2999	5824	22804	88581	65740	28933	24382	16114	2697	1058	1316
MEAN	65.8	100	188	736	3164	2121	964	787	537	87.0	34.1	43.9
MAX	129	135	430	3570	13500	6690	1410	1460	1670	146	47	67
MIN	42	86	120	170	611	1250	618	545	148	50	29	29
AC-FT	4050	5950	11550	45230	175700	130400	57390	48360	31960	5350	2100	2610

CAL YR 1985	TOTAL	119933	MEAN	329	MAX	1900	MIN	25	AC-FT	237900
WTR YR 1986	TOTAL	262488	MEAN	719	MAX	13500	MIN	29	AC-FT	520600

KLAMATH RIVER BASIN

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.--Lat 41°51'14", long 123°13'52", in SW 1/4 SW 1/4 sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank 0.4 mi upstream from Bittenbender Creek, 1.4 mi downstream from Grider Creek, 2.2 mi west of Seiad Valley, and 55 mi downstream from Iron Gate Dam.

DRAINAGE AREA.--6,940 mi², approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,320 ft above National Geodetic Vertical Datum of 1929, from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 11 to Nov. 7 and Jan. 23 to Feb. 4. Records good. Low flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--48 years (water years 1913-25, 1952-86), 4,161 ft³/s, 3,015,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s, Dec. 23, 1964, gage height, 33.75 ft, from floodmarks, from rating curve extended above 49,000 ft³/s on basis of slope-area measurements at gage heights 20.1 ft and 29.2 ft; minimum daily, 320 ft³/s, Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0645	12,800	9.85	Mar. 8	0930	22,700	13.04
Feb. 18	0815	*43,100	*17.83				

Minimum daily, 998 ft³/s, July 31.

RGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2000	2110	3810	2420	7700	14500	6570	3220	3330	1250	1070	1320
2	2000	2120	4070	2380	7800	13800	6630	3400	3060	1210	1250	1450
3	2010	2120	4120	2420	7640	13100	6650	3630	3250	1200	1260	1470
4	2030	2130	3950	2410	6610	12700	6460	3620	2980	1170	1270	1470
5	2030	2130	4030	2530	5860	12300	6200	3550	2750	1170	1270	1470
6	2030	2140	4100	2660	5350	11900	6140	3540	2430	1160	1270	1470
7	2030	2140	4240	2660	5070	15500	6140	3460	2280	1150	1270	1480
8	2030	2190	4280	2600	4790	21900	5820	3480	2090	1150	1270	1490
9	2030	2220	4090	2680	4650	20200	5640	3800	1940	1140	1250	1520
10	2070	2260	3960	2670	4520	18400	5380	3840	1850	1120	1250	1510
11	2100	2260	3790	2590	4450	17200	5360	3840	1790	1110	1250	1510
12	2090	2240	3750	2540	4450	15700	5280	3830	1760	1100	1230	1520
13	2090	2230	3690	2510	4820	14500	5200	3780	1720	1090	1230	1520
14	2080	2220	3670	2480	5490	14000	5040	3760	1740	1080	1220	1520
15	2080	2250	3660	2470	9980	13700	4910	3750	1700	1080	1220	1560
16	2070	2370	3640	4490	14200	13000	4760	3290	1770	1070	1220	1600
17	2060	2370	3470	11300	22600	12900	4840	3170	1710	1060	1220	1740
18	2050	2340	3370	8290	40200	12700	4700	3250	1590	1060	1220	1820
19	1770	2320	3360	6280	34700	12100	4470	3370	1540	1060	1220	1820
20	1740	2300	3360	5400	30900	10400	4510	3490	1510	1060	1210	1760
21	1740	2290	3360	5190	24200	10000	4780	3240	1450	1060	1210	1750
22	1800	2740	3350	5060	22700	8610	5060	3040	1440	1050	1210	1730
23	1820	2940	3320	5240	22400	7740	5000	2650	1400	1030	1210	1720
24	2090	2970	3320	5150	19800	7930	4280	2490	1390	1020	1210	1750
25	2210	2970	3320	5040	17800	7740	4030	2550	1350	1020	1210	2000
26	2190	3470	3320	4900	16400	7350	3600	2880	1320	1020	1210	2360
27	2180	3680	3340	4810	15600	6500	3370	3090	1300	1020	1260	2320
28	2160	3840	3010	4720	15000	6470	3360	3140	1300	1010	1240	2090
29	2120	3920	2900	4940	---	6750	3340	3190	1270	1000	1230	2010
30	2110	3590	2900	5590	---	6700	3270	3280	1250	1000	1220	2120
31	2110	---	2570	6490	---	6630	---	3450	---	998	1220	---
TOTAL	62920	76870	111120	130910	385680	372920	150790	104070	56260	33718	38100	50870
MEAN	2030	2562	3585	4223	13770	12030	5026	3357	1875	1088	1229	1696
MAX	2210	3920	4280	11300	40200	21900	6650	3840	3330	1250	1270	2360
MIN	1740	2110	2570	2380	4450	6470	3270	2490	1250	998	1070	1320
AC-FT	124800	152500	220400	259700	765000	739700	299100	206400	111600	66880	75570	100900
CAL YR 1985	TOTAL	1090938	MEAN	2989	MAX	11400	MIN	937	AC-FT	2164000		

KLAMATH RIVER BASIN

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW 1/4 SW 1/4 sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on left bank 0.2 mi upstream from Slater Creek, 3.0 mi north of Happy Camp, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--120 mi².

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft above National Geodetic Vertical Datum of 1929. Prior to December 1956, nonrecording gages at sites 1.0 mi upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1, 2 and Feb. 17-19, 21-23. Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--32 years (water years 1912-14, 1958-86), 440 ft³/s, 318,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s, Dec. 22, 1964, gage height, 24.3 ft, from floodmarks, present site and datum, from rating curve extended above 6,000 ft³/s on basis of slope-area measurement at gage height 29.0 ft, previous site and datum; minimum discharge observed, 20 ft³/s, Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft, at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft³/s on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1715	5,180	10.31	Mar. 7	1345	3,710	9.15
Feb. 18	unknown	*9,420	*12.68				

Minimum daily, 33 ft³/s, Sept. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	57	106	219	1050	1150	590	250	224	83	49	35
2	45	56	489	268	1590	1020	530	396	218	82	48	34
3	45	54	607	331	1430	929	491	431	198	80	48	34
4	44	53	339	258	1060	878	462	357	181	82	47	34
5	44	54	380	587	873	830	439	340	174	81	46	34
6	43	53	368	519	717	815	428	359	168	79	45	33
7	43	52	611	353	607	2450	435	354	161	77	45	33
8	43	53	447	356	519	2080	440	380	155	74	44	33
9	44	62	290	499	454	1740	428	388	149	73	42	34
10	44	63	225	378	406	1610	418	387	147	73	42	34
11	45	58	181	318	369	1600	395	345	143	71	41	34
12	46	55	158	271	400	1440	388	319	138	70	41	34
13	44	54	143	248	499	1300	358	313	134	68	41	34
14	43	53	131	271	888	1140	342	307	132	67	40	35
15	43	73	123	365	1740	1020	332	290	130	67	39	38
16	43	138	117	2710	2570	914	339	280	127	66	39	49
17	43	116	115	1980	3450	823	321	281	128	67	39	83
18	42	93	114	1220	5080	758	309	297	132	65	38	85
19	42	81	115	954	3700	734	306	287	125	64	37	88
20	55	76	119	731	2650	753	324	300	121	62	37	64
21	93	72	123	558	2500	773	383	278	115	61	37	56
22	173	69	128	586	2400	739	394	248	103	58	37	52
23	254	68	134	711	2710	778	332	232	101	57	37	50
24	139	69	142	588	2590	898	302	227	99	56	36	106
25	94	67	150	478	1980	754	292	250	97	56	36	224
26	79	64	155	419	1700	692	273	266	93	56	36	495
27	69	65	152	405	1540	703	274	252	92	56	36	245
28	65	79	145	463	1310	734	280	246	89	54	36	154
29	62	103	137	805	---	749	268	251	88	52	36	130
30	59	93	129	1200	---	707	255	257	86	51	36	131
31	58	---	128	992	---	644	---	241	---	50	36	---
TOTAL	2032	2103	6701	20041	46782	32155	11128	9409	4048	2058	1247	2525
MEAN	65.5	70.1	216	646	1671	1037	371	304	135	66.4	40.2	84.2
MAX	254	138	611	2710	5080	2450	590	431	224	83	49	495
MIN	42	52	106	219	369	644	255	227	86	50	36	33
AC-FT	4030	4170	13290	39750	92790	63780	22070	18660	8030	4080	2470	5010

CAL YR 1985	TOTAL	83558	MEAN	229	MAX	1040	MIN	42	AC-FT	165700
WTR YR 1986	TOTAL	140229	MEAN	384	MAX	5080	MIN	33	AC-FT	278100

KLAMATH RIVER BASIN

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE 1/4 sec.3, T.11 N., R.6 E., Siskiyou County, Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, 1.0 mi upstream from mouth.

DRAINAGE AREA.--751 mi².

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1971(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 482.97 ft above National Geodetic Vertical Datum of 1929. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi upstream at datum 6.54 ft higher.

REMARKS.--Estimated daily discharges: Nov. 13 to Dec. 3 and Dec. 12-23. Records good except for periods of estimated record, which are fair. No storage or large diversion above station.

AVERAGE DISCHARGE.--63 years, 1,837 ft³/s, 1,331,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s, Dec. 22, 1964, gage height, 46.6 ft present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s; minimum, 70 ft³/s, Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2145	17,400	12.13	Mar. 7	1745	21,000	15.53
Feb. 18	0215	*39,100	*19.68				

Minimum daily, 137 ft³/s, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	355	1040	841	2840	6670	3160	1600	2810	537	244	158
2	173	344	1340	943	3580	6030	2830	2240	2610	534	236	158
3	170	333	2250	1120	5010	5650	2590	2340	2400	529	231	154
4	167	323	1340	925	4240	5420	2450	1950	1850	505	227	150
5	164	317	1240	1390	3410	5210	2330	1860	1680	486	220	147
6	164	314	1170	1720	2880	5130	2300	1830	1570	459	215	143
7	164	307	1870	1310	2500	13300	2450	1750	1380	438	215	141
8	164	300	1820	1220	2220	14700	2810	1780	1230	432	211	137
9	164	345	1330	1330	2000	11600	2660	1800	1150	424	205	137
10	164	387	1060	1140	1830	8730	2530	1920	1130	417	200	138
11	165	352	885	1020	1690	7560	2470	1780	1160	412	195	140
12	174	329	840	942	1840	6870	2400	1700	1170	404	195	140
13	174	315	780	892	2550	6300	2180	1720	1150	390	192	140
14	174	305	740	905	3700	5560	2030	1810	1170	373	188	140
15	172	340	720	962	7730	5020	1930	1790	1040	365	183	152
16	169	530	700	7650	13000	4480	1870	1800	926	355	180	199
17	167	490	680	11400	23000	4010	1800	1860	901	346	177	409
18	166	440	678	7140	31200	3640	1710	2170	920	337	177	457
19	164	420	660	4960	22000	3450	1670	2270	829	333	174	418
20	192	380	660	3900	17800	3400	1740	2280	766	328	171	341
21	479	364	658	3020	14500	3360	2200	2140	732	317	169	300
22	742	360	657	2650	17600	3220	2670	1790	741	312	169	285
23	1460	450	657	2930	18000	3170	2280	1630	757	305	169	268
24	1090	430	663	2630	13700	3590	1970	1630	761	300	169	431
25	705	415	703	2350	11200	3210	1820	2040	743	291	169	725
26	566	539	727	2130	9520	3040	1680	2650	689	278	166	1160
27	493	740	725	2010	8720	3160	1660	2600	660	272	164	883
28	463	1190	693	1990	7650	3340	1740	2640	613	268	161	603
29	430	1100	662	2460	---	3480	1690	2730	586	263	158	525
30	396	1080	652	2800	---	3550	1610	3040	562	258	158	530
31	372	---	665	2720	---	3350	---	3040	---	251	158	---
TOTAL	10581	13894	29265	79400	255910	169200	65230	64180	34686	11519	5846	9709
MEAN	341	463	944	2561	9140	5458	2174	2070	1156	372	189	324
MAX	1460	1190	2250	11400	31200	14700	3160	3040	2810	537	244	1160
MIN	164	300	652	841	1690	3040	1610	1600	562	251	158	137
AC-FT	20990	27560	58050	157500	507600	335600	129400	127300	68800	22850	11600	19260
CAL YR 1985	TOTAL	390837	MEAN	1071	MAX	4940	MIN	154	AC-FT	775200		
WTR YR 1986	TOTAL	749420	MEAN	2053	MAX	31200	MIN	137	AC-FT	1486000		

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW 1/4 NE 1/4 sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest, on right bank at Orleans, 25 ft upstream from highway bridge, and 0.2 mi downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi², not including Lost River or Lower Klamath Lake basins.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

REVISED RECORDS.--WSP 1565: 1935(M), 1949.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 355.98 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 6.7 mi upstream at datum 90.68 ft higher.

REMARKS.--Estimated daily discharges: Feb. 19-22, June 13 to July 12. Records good except for estimated daily discharge, which are fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--59 years, 8,392 ft³/s, 6,080,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s, Dec. 22, 1964, gage height, 76.5 ft, from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft³/s by slope-conveyance study; minimum daily, 320 ft³/s, Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2330	48,700	16.36	Mar. 7	1830	50,600	16.65
Feb. 18	0830	*278,000	*37.16				

Minimum daily, 1,580 ft³/s, Aug. 1, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	2550	5080	4380	24500	30400	14600	6970	8170	2180	1580	1580
2	2020	2520	9760	4830	28800	28400	14000	8620	7560	2100	1630	1680
3	2030	2490	13200	5710	33200	26800	13600	9620	7260	2120	1710	1760
4	2040	2470	8770	4870	29400	25600	13200	8670	6500	2070	1710	1750
5	2030	2480	8220	6640	25900	24600	12500	8290	6030	2050	1710	1740
6	2030	2530	8240	7930	23300	23500	12100	8350	5510	2020	1700	1740
7	2030	2540	10900	6410	21400	36000	12200	8160	5020	1990	1700	1740
8	2040	2550	10600	5980	20500	45400	12400	8140	4570	1970	1700	1740
9	2030	2720	8490	6880	19300	41200	11700	8520	4220	1960	1680	1770
10	2050	2900	7260	6260	18400	35900	11400	8780	4020	1940	1660	1760
11	2080	2720	6440	5630	18000	34000	11000	8400	3920	1910	1650	1760
12	2110	2630	5890	5200	19000	31700	10900	8100	3760	1890	1640	1760
13	2110	2570	5560	4910	22300	29100	10500	8030	3610	1860	1630	1760
14	2090	2560	5320	4950	25900	27200	10100	8070	3510	1830	1620	1770
15	2070	2850	5160	5540	39200	26100	9810	7940	3420	1830	1620	1800
16	2000	4100	5030	22100	74300	24600	9660	7740	3400	1800	1600	1910
17	2000	3770	4910	39700	156000	23400	9470	7330	3300	1780	1600	2340
18	2010	3390	4650	31300	229000	22700	9310	7730	3150	1770	1600	2500
19	1870	3100	4640	26100	162000	21900	8930	7920	3010	1770	1590	2480
20	1870	2970	4700	22500	116000	20700	9010	8080	2920	1760	1600	2250
21	2600	2910	4750	20200	59000	19800	9740	7970	2890	1730	1600	2110
22	3220	2970	4750	20200	67500	18800	10600	7040	2780	1720	1600	2060
23	5440	3490	4740	23300	74200	17300	10100	6490	2700	1690	1600	2030
24	4100	3630	4830	22100	52200	18300	9170	6050	2690	1670	1600	2290
25	3320	3650	4960	20300	41900	17400	8480	6440	2700	1650	1600	3350
26	3070	3680	5020	19000	36800	16400	7970	7390	2600	1640	1600	5800
27	2880	4230	4940	18200	34400	15900	7410	7700	2520	1630	1610	4980
28	2780	5650	4640	18400	32300	15400	7480	7780	2400	1630	1600	3630
29	2720	6240	4240	20900	---	15900	7310	7900	2300	1600	1590	3140
30	2640	5330	4170	25000	---	15700	7070	8280	2220	1590	1590	3170
31	2590	---	4150	24000	---	15200	---	8440	---	1590	1600	---
TOTAL	75900	98190	194010	459420	1504700	765300	311720	244940	118660	56740	50520	70150
MEAN	2448	3273	6258	14820	53740	24690	10390	7901	3955	1830	1630	2338
MAX	5440	6240	13200	39700	229000	45400	14600	9620	8170	2180	1710	5800
MIN	1870	2470	4150	4380	18000	15200	7070	6050	2220	1590	1580	1580
AC-FT	150500	194800	384800	911300	2985000	1518000	618300	485800	235400	112500	100200	139100

CAL YR 1985	TOTAL	1965860	MEAN	5386	MAX	20300	MIN	1550	AC-FT	3899000
WTR YR 1986	TOTAL	3950250	MEAN	10820	MAX	229000	MIN	1580	AC-FT	7835000

KLAMATH RIVER BASIN

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'41", long 122°42'16", in SW 1/4 NW 1/4 sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank 24 ft upstream from State Highway No. 3 bridge, 1.8 mi upstream from Coffee Creek, and 8.6 mi north of Trinity Center.

DRAINAGE AREA.--149 mi².

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR CA-85-2: 1982 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi downstream at datum 3.57 ft lower.

REMARKS.--Estimated daily discharges: Aug. 14 to Sept. 4. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--29 years, 426 ft³/s, 308,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft³/s, Jan. 16, 1974, gage height, 12.96 ft, site and datum then in use, on basis of slope-area measurement of peak flow; maximum gage height, 13.78 ft, Nov. 16, 1981; minimum daily, 16 ft³/s, Sept. 11-14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft, previous site and datum, from floodmarks, discharge, 11,400 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 31	1945	3,630	9.02	Mar. 7	1200	5,920	10.54
Feb. 14	1830	*8,150	*11.69				

Minimum daily, 32 ft³/s, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	50	53	178	2050	1430	1120	584	811	109	61	34
2	33	50	90	172	2200	1300	909	1060	790	106	59	34
3	33	50	105	157	1270	1290	796	884	668	104	56	34
4	33	49	93	167	847	1300	755	703	572	100	55	35
5	33	49	176	521	660	1310	728	630	486	96	54	34
6	33	48	138	374	545	1380	814	559	432	96	53	34
7	33	47	124	253	463	4110	969	497	372	94	51	33
8	34	45	107	205	411	3200	1000	495	326	93	50	32
9	34	46	91	177	381	2000	998	530	299	90	50	32
10	34	50	80	158	351	1540	1040	615	285	87	48	33
11	34	47	65	144	331	1320	1050	539	277	83	47	33
12	34	42	70	134	329	1140	952	549	270	81	47	33
13	34	43	71	129	350	1070	768	626	266	78	43	33
14	34	44	68	133	3740	884	692	675	249	78	42	33
15	34	46	66	173	5080	805	655	666	225	77	41	43
16	34	49	65	376	2920	708	588	687	212	75	40	68
17	34	49	65	637	3190	652	525	752	204	75	39	170
18	34	48	67	644	4230	617	480	917	197	73	38	98
19	34	45	75	736	3300	647	501	986	178	73	38	95
20	56	43	86	697	2130	732	662	907	167	70	37	83
21	192	41	92	472	1500	829	995	755	159	67	36	76
22	92	42	93	372	1340	870	1190	606	151	67	36	73
23	97	41	93	321	1400	949	984	564	147	85	35	67
24	109	42	100	272	1390	1150	775	607	141	71	35	79
25	90	43	110	247	1410	948	659	798	136	67	35	82
26	80	43	116	236	1510	932	588	945	132	71	36	105
27	74	43	115	236	1650	1070	588	938	126	81	37	107
28	69	51	108	287	1630	1180	621	915	120	71	37	93
29	61	52	101	781	---	1270	597	906	116	67	36	86
30	57	51	109	1080	---	1360	574	972	113	64	36	80
31	53	---	143	2520	---	1280	---	923	---	63	36	---
TOTAL	1669	1389	2935	12989	46608	39273	23573	22790	8627	2512	1344	1872
MEAN	53.8	46.3	94.7	419	1665	1267	786	735	288	81.0	43.4	62.4
MAX	192	52	176	2520	5080	4110	1190	1060	811	109	61	170
MIN	33	41	53	129	329	617	480	495	113	63	35	32
AC-FT	3310	2760	5820	25760	92450	77900	46760	45200	17110	4980	2670	3710
CAL YR 1985	TOTAL	74427	MEAN	204	MAX	1560	MIN	32	AC-FT	147600		

KLAMATH RIVER BASIN

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW 1/4 SW 1/4 sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, Whiskeytown-Shasta-Trinity National Recreation Area, on side of intake structure of Trinity Dam on Trinity River, 9 mi north of Lewiston.

DRAINAGE AREA.--692 mi².

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft between elevations 1,995.5 ft, elevation of invert of river outlets and 2,370.0 ft, crest of Glory Hole spillway. Dead storage, 10,000 acre-ft. Operating pool is from elevation 2,145.0 ft, capacity, 312,621 acre-ft, to 2,370.0 ft, capacity, 2,447,700 acre-ft. Figures given herein represent total contents at 2400 hours. Lake is used for power generation, flood control and recreation.

COOPERATION.--Records were provided by U.S. Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft, Jan. 19, 1974, elevation, 2,378.32 ft; minimum since first filling, 222,400 acre-ft, Nov. 9, 1977, elevation, 2,120.22 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 2,388,600 acre-ft, June 13, 14, and 16, elevation, 2,366.39 ft; minimum, 1,471,900 acre-ft, Dec. 31, elevation, 2,300.82 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

2,100	162,200	2,250	955,100
2,140	292,900	2,310	1,583,600
2,190	529,600	2,380	2,617,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1754800	1629500	1550000	1472600	1624800	2061600	2172100	2241200	2367600	2377000	2218100	2033700
2	1748000	1626400	1550700	1473600	1648900	2067100	2174300	2246100	2371500	2371500	2212100	2029000
3	1740300	1623100	1549800	1474400	1664300	2071400	2176100	2249800	2373300	2365900	2206100	2023700
4	1732900	1620100	1548000	1475800	1673700	2074000	2177500	2252500	2375800	2359600	2200000	2019800
5	1725000	1617100	1547500	1479500	1680500	2077200	2179300	2254300	2377900	2352100	2193900	2014500
6	1717200	1614400	1546500	1482200	1685800	2080000	2182000	2256000	2379700	2347600	2187200	2009200
7	1708800	1611500	1545900	1483700	1689700	2105300	2185400	2257400	2380800	2341600	2181000	2003400
8	1701600	1608100	1544800	1484900	1693300	2124400	2189000	2259000	2382000	2336000	2174700	1997500
9	1698200	1605600	1543200	1485800	1696000	2132200	2192700	2260000	2383300	2330900	2169000	1991000
10	1694600	1603400	1541600	1486600	1698700	2137800	2196500	2261400	2384500	2326500	2162900	1985400
11	1690800	1600500	1539300	1487300	1701200	2141000	2199600	2262800	2386000	2321900	2156400	1979900
12	1687400	1597200	1536200	1487800	1705900	2142600	2202600	2264800	2387500	2317300	2150200	1974300
13	1684300	1593900	1533200	1488100	1710900	2142600	2204800	2267800	2388600	2312500	2144000	1968300
14	1681000	1592300	1530100	1489100	1747300	2141400	2206300	2270400	2388600	2307600	2137700	1962700
15	1677800	1589600	1527100	1492100	1794400	2139600	2206600	2273700	2388400	2302100	2131200	1957500
16	1674400	1586500	1524100	1506100	1825500	2136000	2211500	2277400	2388600	2296600	2124400	1953400
17	1671600	1582800	1520900	1517600	1869500	2131500	2215000	2281500	2387800	2291300	2118300	1951100
18	1668400	1580100	1517700	1524900	1917600	2127100	2214900	2286900	2387100	2286100	2111400	1947500
19	1664900	1577100	1514800	1531600	1951800	2125800	2214900	2292100	2386500	2281600	2105100	1943200
20	1662300	1574100	1512500	1536800	1972800	2125600	2215900	2296300	2386300	2277600	2098700	1939100
21	1660300	1571300	1509600	1540500	1988300	2128000	2219200	2299300	2386700	2273500	2093000	1934600
22	1659500	1568700	1506500	1544200	2001300	2131000	2223500	2301900	2387000	2268600	2087200	1929700
23	1657200	1566500	1503700	1547200	2013800	2134500	2225600	2305700	2388400	2263400	2081300	1925800
24	1655100	1564000	1501200	1549700	2024500	2139000	2226700	2310300	2387600	2258000	2075700	1921800
25	1652200	1561300	1498400	1552200	2032800	2142300	2226800	2316900	2387600	2252900	2070500	1917900
26	1649200	1558600	1495800	1554400	2040300	2145800	2229500	2324800	2387000	2247700	2065000	1914800
27	1645800	1556800	1492700	1555600	2048100	2149600	2231800	2332500	2385700	2242400	2060300	1911400
28	1642500	1555400	1487400	1557700	2055600	2153800	2234500	2339000	2384400	2237500	2054800	1907800
29	1639300	1553500	1482000	1567800	---	2158700	2372000	2347300	2383100	2232900	2048800	1904100
30	1636000	1550900	1477000	1582000	---	2164100	2239300	2355800	2382400	2228200	2043700	1901000
31	1632700	---	1471900	1605100	---	2169000	---	2363000	---	2223900	2038800	---
MAX	1754800	1629500	1550700	1605100	2055600	2169000	2372000	2363000	2388600	2377000	2218100	2033700
MIN	1632700	1550900	1471900	1472600	1624800	2061600	2172100	2241200	2367600	2223900	2038800	1901000
a	2313.90	2307.36	2300.82	2311.72	2344.74	2352.32	2356.92	2364.80	2366.01	2355.92	2343.60	2334.00
b	-129000	-81800	-79000	+133200	+450500	+113400	+70300	+123700	+19400	-158500	-185100	-137800
c	2660	590	400	360	680	2270	4350	6330	8490	8660	8230	4170

CAL YR 1985 b -417000

WTR YR 1986 b +139000

- a Elevation, in feet NGVD, at end of month.
- b Change in contents, in acre-feet.
- c Unreviewed evaporation, in acre-feet.

KLAMATH RIVER BASIN

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, Hydrologic Unit 18010212, at powerplant 1.6 mi downstream from Mill Creek, and 3.8 mi south of French Gulch.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Recorded powerplant output.

REMARKS.--Water is diverted from Trinity River at NW 1/4 SE 1/4 sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (station 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records were provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--23 years, 1,542 ft³/s, 1,117,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft³/s, Feb. 11, 1970; no flow many days in most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3236	1465	1261		0	0	2172	999	1460	2508	2491	2289
2	3260	1461	1264		0	0	2075	1000	1263	2508	2920	2263
3	3556	1424	1264		0	452	2074	938	1102	2448	2631	2328
4	3482	1345	1261		51	1551	2075	1000	609	2595	2605	1935
5	3620	1248	1261		0	1610	1835	999	569	2499	2578	2422
6	3620	1248	1241		0	1670	1944	999	639	2380	2447	2328
7	3623	1248	987		0	414	1903	999	565	2468	2447	2360
8	3144	1245	989		0	0	1867	1026	687	2560	2417	2360
9	1159	1245	988		0	0	1912	1028	591	2058	2693	2187
10	1507	1245	1016		0	0	1752	983	570	1707	2669	2215
11	1420	1245	1003		0	0	1773	997	569	2090	2613	2309
12	1433	1241	1513		0	0	1773	709	539	1807	2560	2367
13	1433	1221	1548		129	0	1773	618	658	1815	2613	2399
14	1433	692	1513		0	0	1876	814	573	1920	2613	2360
15	1296	1336	1513		0	0	1876	704	590	1891	2552	2330
16	1391	1533	1513		0	0	0	706	649	1863	2595	1910
17	1343	1533	1369		0	0	0	716	613	2170	2604	2232
18	1470	1241	1493		0	0	2011	655	576	1834	2669	2030
19	1510	1241	1493		0	0	1977	694	577	1782	2658	2150
20	1451	1241	1193		0	0	1977	682	486	1834	2840	2218
21	1470	1261	1493		0	0	1904	747	553	1781	2239	2111
22	1470	1261	1493		0	1186	1904	756	605	1781	2499	1992
23	1451	1261	1513		0	1510	1977	0	605	1810	2302	2300
24	1470	1261	1513		0	1726	1937	0	585	1913	2453	2108
25	1366	1261	1493		0	1973	1984	0	446	1782	2359	1736
26	1470	1221	1513		0	2190	766	0	352	1810	2360	1791
27	1465	1261	1555		0	2133	685	0	352	2005	2223	1823
28	1465	1261	2766		0	2055	768	217	352	2152	2194	2031
29	1465	1261	2766		---	2133	872	0	346	1771	2287	1860
30	1465	1261	2744		---	2195	1012	335	357	1799	2259	1823
31	1465	---	2744		---	2075	---	532	---	1750	2367	---
TOTAL	60409	38268	47276	0	180	24873	48454	19853	18438	63091	77757	64567
MEAN	1948	1275	1525	0	6.42	802	1615	640	614	2035	2508	2152
MAX	3623	1533	2766	0	129	2195	2172	1028	1460	2595	2920	2422
MIN	1159	692	987	0	0	0	0	0	346	1707	2194	1736
AC-FT	119800	75900	93770	0	357	49340	96110	39380	36570	125100	154200	128100
CAL YR 1985	TOTAL	396949.00	MEAN	1087	MAX	3623	MIN	0	AC-FT	787300		
WTR YR 1986	TOTAL	463166.00	MEAN	1268	MAX	3623	MIN	0	AC-FT	918700		

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank 400 ft upstream from Deadwood Creek, 0.8 mi downstream from Lewiston Diversion Dam, and 0.8 mi northeast of Lewiston.

DRAINAGE AREA.--719 mi².

PERIOD OF RECORD.--August 1911 to current year.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,815.95 ft above National Geodetic Vertical Datum of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Trinity Dam beginning in November 1960 and Lewiston Lake, capacity, 14,660 acre-ft, when diversion to Judge Francis Carr powerplant (station 11525430) began in April 1963. Small diversions above head of Clair Engle Lake for irrigation, power, placer mining, and for domestic use between Trinity Dam and station at Lewiston.

AVERAGE DISCHARGE.--49 years (water years 1912-60) prior to storage and diversions, 1,641 ft³/yr, 1,189,000 acre-ft/yr; 26 years (water years 1961-86), 1,974 ft³/s, 1,430,000 acre-ft/yr, adjusted for changes in contents, evaporation, and diversion; unadjusted flow for same period was 433 ft³/s, 313,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s, Dec. 22, 1955, gage height, 27.3 ft, from floodmarks, site and datum then in use; minimum, 23 ft³/s, July 30, 1924. Maximum discharge since completion of Trinity Dam in 1960, 14,400 ft³/s, Jan. 18, 1974, gage height, 10.41 ft; minimum daily, 100 ft³/s, Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft, from floodmarks, at site 1.1 mi downstream at different datum, discharge, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,320 ft³/s, Mar. 15, gage height, 7.74 ft; minimum daily, 280 ft³/s, Dec. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	334	316	322	311	312	2670	310	382	453	747	632	299		
2	324	315	308	310	314	2650	320	385	518	813	632	299		
3	325	316	280	311	313	2380	323	383	480	813	623	299		
4	327	316	298	310	308	2090	325	382	420	812	623	302		
5	327	316	322	311	306	2100	325	382	419	809	620	301		
6	327	315	322	309	305	2090	325	378	422	811	620	302		
7	323	315	323	309	306	3340	325	370	419	819	627	302		
8	334	316	322	308	309	5030	324	369	418	810	631	305		
9	334	316	321	308	307	6080	321	366	417	801	629	303		
10	335	316	320	308	309	6150	321	366	415	800	623	304		
11	335	316	320	308	310	6150	321	366	411	804	621	307		
12	334	316	320	308	313	6180	324	368	392	799	622	308		
13	331	316	317	308	310	6180	322	369	410	803	620	303		
14	330	296	316	309	315	6190	325	371	408	799	619	302		
15	330	297	316	311	316	6210	325	369	408	793	621	304		
16	330	298	316	322	421	6250	324	370	408	793	622	310		
17	328	297	316	316	1260	6240	323	367	407	787	623	310		
18	326	303	319	311	1750	5730	325	369	406	787	540	311		
19	325	316	318	309	848	4530	327	369	405	793	503	310		
20	327	317	320	308	830	3880	330	353	405	793	502	311		
21	322	321	320	306	882	2700	385	375	406	808	501	311		
22	323	306	320	308	1190	1640	406	367	406	810	502	311		
23	320	289	320	307	1340	836	399	365	407	818	500	316		
24	320	290	320	307	1640	617	395	364	396	818	499	314		
25	319	289	319	306	2380	328	394	367	546	818	394	314		
26	320	287	316	302	2650	327	391	367	632	803	298	317		
27	320	288	313	303	2660	323	389	364	630	802	296	319		
28	320	308	311	306	2680	318	390	382	631	681	298	321		
29	320	321	311	309	---	320	386	417	635	628	301	320		
30	320	320	311	310	---	321	383	415	633	628	302	317		
31	318	---	311	313	---	316	---	416	---	627	300	---		
TOTAL	10108	9248	9788	9582	25184	100166	10383	11633	13763	24227	16344	9252		
MEAN	326	308	316	309	899	3231	346	375	459	782	527	308		
MAX	335	321	323	322	2680	6250	406	417	635	819	632	321		
MIN	318	287	280	302	305	316	310	353	392	627	296	299		
AC-FT	20050	18340	19410	19010	49950	198700	20590	23070	27300	48050	32420	18350		
MEAN a	222	219	562	2481	9030	5915	3215	3130	1542	380	159	215		
AC-FT a	13650	13030	34580	152600	501500	363700	191300	192500	91760	23350	9780	12790		
CAL YR 1985	TOTAL	127531	MEAN	349	MAX	847	MIN	280	AC-FT	253000	MEAN a	923	AC-FT a	668200
WTR YR 1986	TOTAL	249678	MEAN	684	MAX	6250	MIN	280	AC-FT	495200	MEAN a	2211	AC-FT a	1600000

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW 1/4, NE 1/4 sec. 36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi upstream from Phillips Gulch, and 2.5 mi southwest of Lewiston.

DRAINAGE AREA.--30.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft above National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--No estimated daily discharge. Records good. No regulation; small pumping diversions above station.

AVERAGE DISCHARGE.--10 years (water years 1977-86), 52.9 ft³/s, 38,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft³/s (revised), Feb. 28, 1983; gage height, 10.11 ft, from rating curve extended above 700 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 4.3 ft³/s, many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 220 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 2	0545	631	7.90	Mar. 9	2345	293	6.18
Feb. 14	1615	*2,500	*9.40				

Minimum daily, 9.0 ft³/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	11	18	17	230	112	98	58	33	19	12	10
2	9.4	11	62	17	432	109	97	63	33	18	11	9.9
3	9.4	11	32	17	250	107	95	64	32	18	11	9.8
4	9.1	11	23	21	162	103	95	60	32	18	11	9.6
5	9.0	11	27	25	126	100	94	59	32	18	11	9.5
6	9.3	11	24	22	106	98	92	58	31	18	11	9.4
7	9.7	11	26	21	93	109	91	57	30	18	11	9.5
8	9.8	11	23	20	83	152	89	57	28	18	10	10
9	10	11	21	20	75	141	86	56	27	17	10	10
10	10	13	20	19	69	192	83	56	26	17	10	11
11	10	11	18	19	65	154	80	55	25	16	10	11
12	10	11	18	18	67	141	78	52	26	16	10	10
13	11	11	18	18	80	135	75	51	25	15	10	11
14	10	11	17	19	808	124	73	49	25	15	9.8	11
15	10	14	17	25	756	126	72	48	26	15	9.8	13
16	10	13	17	96	482	122	74	47	25	15	9.9	15
17	10	12	16	79	766	119	71	45	25	16	10	26
18	10	12	16	54	506	117	69	45	25	15	10	21
19	10	11	16	45	464	116	67	44	24	15	10	21
20	12	12	16	39	352	115	66	43	24	14	10	16
21	27	11	16	34	274	115	65	44	23	14	10	18
22	20	11	16	33	248	114	65	43	22	12	10	15
23	15	12	16	35	202	113	63	42	21	13	10	15
24	12	15	16	31	166	112	62	41	20	12	10	18
25	12	13	16	29	136	109	62	40	20	14	10	17
26	11	12	16	28	129	107	61	39	20	15	10	21
27	11	13	16	27	120	106	60	38	20	14	10	19
28	11	17	15	26	116	105	60	36	20	13	10	17
29	11	21	16	52	---	103	59	35	20	13	10	16
30	11	16	16	110	---	102	59	34	19	12	11	15
31	11	---	16	239	---	100	---	33	---	12	11	---
TOTAL	350.4	371	620	1255	7363	3678	2261	1492	759	475	319.5	424.7
MEAN	11.3	12.4	20.0	40.5	263	119	75.4	48.1	25.3	15.3	10.3	14.2
MAX	27	21	62	239	808	192	98	64	33	19	12	26
MIN	9.0	11	15	17	65	98	59	33	19	12	9.8	9.4
AC-FT	.695	736	1230	2490	14600	7300	4480	2960	1510	942	634	842
CAL YR 1985	TOTAL	7068.2	MEAN	19.4	MAX	62	MIN	7.5	AC-FT	14020		
WTR YR 1986	TOTAL	19368.6	MEAN	53.1	MAX	808	MIN	9.0	AC-FT	38420		

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT DISCHARGE: November 1975 to current year.

SEDIMENT LOAD: Maximum daily, 65,200 tons, Mar. 2, 1983; minimum daily, 0 ton during most years.

SEDIMENT LOAD: Maximum daily, 17,300 tons, Feb. 14; minimum daily, 0.02 ton, Oct. 4.

[illegible]

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.7	1	.03	11	3	.09	18	36	2.8
2	9.4	1	.03	11	2	.06	62	222	39
3	9.4	1	.03	11	2	.06	32	15	1.3
4	9.1	1	.02	11	2	.06	23	8	.50
5	9.0	2	.05	11	2	.06	27	10	.73
6	9.3	2	.05	11	2	.06	24	6	.39
7	9.7	2	.05	11	2	.06	26	11	.77
8	9.8	2	.05	11	1	.03	23	8	.50
9	10	2	.05	11	2	.06	21	5	.28
10	10	2	.05	13	5	.18	20	5	.27
11	10	1	.03	11	3	.09	18	7	.34
12	10	1	.03	11	3	.09	18	9	.44
13	11	2	.06	11	3	.09	18	6	.29
14	10	2	.05	11	4	.12	17	3	.14
15	10	2	.05	14	10	.38	17	2	.09
16	10	2	.05	13	9	.32	17	2	.09
17	10	3	.08	12	4	.13	16	2	.09
18	10	2	.05	12	2	.06	16	2	.09
19	10	1	.03	11	2	.06	16	2	.09
20	12	7	.34	12	2	.06	16	2	.09
21	27	62	6.1	11	2	.06	16	2	.09
22	20	15	.81	11	2	.06	16	2	.09
23	15	7	.28	12	3	.10	16	2	.09
24	12	2	.06	15	4	.16	16	2	.09
25	12	2	.06	13	4	.14	16	2	.09
26	11	2	.06	12	2	.06	16	3	.13
27	11	3	.09	13	4	.14	16	3	.13
28	11	3	.09	17	8	.37	15	4	.16
29	11	4	.12	21	20	1.1	16	4	.17
30	11	4	.12	16	7	.30	16	4	.17
31	11	4	.12	---	---	---	16	4	.17
TOTAL	350.4	---	9.09	371	---	4.61	620	---	49.67
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17	4	.18	230	289	188	112	320	97
2	17	3	.14	432	2110	2700	109	260	77
3	17	2	.09	250	161	109	107	220	64
4	21	7	.40	162	77	34	103	185	51
5	25	12	.81	126	57	19	100	180	49
6	22	10	.59	106	40	11	98	178	47
7	21	9	.51	93	27	6.8	109	528	162
8	20	7	.38	83	17	3.8	152	2080	887
9	20	6	.32	75	13	2.6	141	1570	689
10	19	6	.31	69	12	2.2	192	1900	1030
11	19	7	.36	65	10	1.8	154	1580	659
12	18	7	.34	67	13	2.4	141	1170	445
13	18	7	.34	80	23	5.0	135	1040	379
14	19	9	.46	808	4310	17300	124	891	298
15	25	18	1.4	756	4280	9310	126	774	263
16	96	267	79	482	2050	2690	122	666	219
17	79	80	17	766	4040	8830	119	564	181
18	54	18	2.6	506	2950	4030	117	539	170
19	45	10	1.2	464	2420	3030	116	529	166
20	39	8	.84	352	1080	1020	115	509	158
21	34	7	.64	274	725	536	115	485	151
22	33	8	.71	248	710	475	114	461	142
23	35	7	.66	202	660	360	113	432	132
24	31	6	.50	166	620	278	112	394	119
25	29	5	.39	136	575	211	109	355	104
26	28	5	.38	129	520	181	107	346	100
27	27	6	.44	120	450	146	106	326	93
28	26	6	.42	116	380	119	105	285	81
29	52	75	11	---	---	---	103	247	69
30	110	89	26	---	---	---	102	238	66
31	239	669	605	---	---	---	100	233	63
TOTAL	1255	---	753.41	7363	---	51601.6	3678	---	7211

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	APRIL				MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	98	212	56	58	80	13	33	50	4.5	
2	97	188	49	63	156	27	33	56	5.0	
3	95	150	38	64	167	29	32	61	5.3	
4	95	158	41	60	118	19	32	61	5.3	
5	94	140	36	59	101	16	32	67	5.8	
6	92	121	30	58	110	17	31	68	5.7	
7	91	111	27	57	195	30	30	69	5.6	
8	89	99	24	57	264	41	28	68	5.1	
9	86	104	24	56	304	46	27	73	5.3	
10	83	104	23	56	304	46	26	63	4.4	
11	80	106	23	55	277	41	25	57	3.8	
12	78	101	21	52	248	35	26	52	3.7	
13	75	97	20	51	224	31	25	53	3.6	
14	73	92	18	49	205	27	25	53	3.6	
15	72	88	17	48	185	24	26	53	3.7	
16	74	98	20	47	165	21	25	54	3.6	
17	71	153	29	45	145	18	25	54	3.6	
18	69	148	28	45	125	15	25	55	3.7	
19	67	140	25	44	127	15	24	57	3.7	
20	66	138	25	43	127	15	24	60	3.9	
21	65	110	19	44	127	15	23	63	3.9	
22	65	95	17	43	127	15	22	64	3.8	
23	63	86	15	42	127	14	21	64	3.6	
24	62	99	17	41	124	14	20	64	3.5	
25	62	101	17	40	121	13	20	64	3.5	
26	61	108	18	39	117	12	20	64	3.5	
27	60	110	18	38	111	11	20	64	3.5	
28	60	108	17	36	104	10	20	63	3.4	
29	59	97	15	35	87	8.2	20	61	3.3	
30	59	82	13	34	67	6.2	19	59	3.0	
31	---	---	---	33	50	4.5	---	---	---	
TOTAL	2261	---	740	1492	---	648.9	759	---	123.9	
DAY	JULY				AUGUST			SEPTEMBER		
1	19	58	3.0	12	42	1.4	10	23	.62	
2	18	56	2.7	11	50	1.5	9.9	23	.61	
3	18	53	2.6	11	56	1.7	9.8	22	.58	
4	18	50	2.4	11	63	1.9	9.6	17	.44	
5	18	48	2.3	11	69	2.0	9.5	12	.31	
6	18	45	2.2	11	75	2.2	9.4	11	.28	
7	18	41	2.0	11	24	.71	9.5	10	.26	
8	18	38	1.8	10	24	.65	10	11	.30	
9	17	38	1.7	10	24	.65	10	12	.32	
10	17	43	2.0	10	24	.65	11	16	.48	
11	16	48	2.1	10	24	.65	11	20	.59	
12	16	52	2.2	10	24	.65	10	25	.68	
13	15	57	2.3	10	24	.65	11	30	.89	
14	15	63	2.6	9.8	23	.61	11	40	1.2	
15	15	61	2.5	9.8	23	.61	13	54	1.9	
16	15	58	2.3	9.9	24	.64	15	60	2.4	
17	16	56	2.4	10	23	.62	26	66	4.6	
18	15	54	2.2	10	23	.62	21	72	4.1	
19	15	52	2.1	10	24	.65	21	78	4.4	
20	14	49	1.9	10	24	.65	16	86	3.7	
21	14	48	1.8	10	25	.68	18	92	4.5	
22	12	45	1.5	10	25	.68	15	91	3.7	
23	13	43	1.5	10	26	.70	15	91	3.7	
24	12	41	1.3	10	26	.70	18	90	4.4	
25	14	39	1.5	10	27	.73	17	80	3.7	
26	15	37	1.5	10	26	.70	21	90	5.1	
27	14	35	1.3	10	25	.68	19	80	4.1	
28	13	33	1.2	10	24	.65	17	70	3.2	
29	13	30	1.1	10	24	.65	16	60	2.6	
30	12	28	.91	11	24	.71	15	51	2.2	
31	12	35	1.1	11	23	.68	---	---	---	
TOTAL	475	---	60.01	319.5	---	27.27	424.7	---	65.86	

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	350.40	9.09	0	9
NOVEMBER....	371.00	4.61	0	5
DECEMBER....	620.00	49.67	0	50
JANUARY 1986	1255.00	753.41	68	821
FEBRUARY....	7363.00	51601.60	6440	58000
MARCH.....	3678.00	7211.00	174	7390
APRIL.....	2261.00	740.00	20	760
MAY.....	1492.00	648.90	1	650
JUNE.....	759.00	123.90	0	124
JULY.....	475.00	60.01	0	60
AUGUST.....	319.50	27.27	0	27
SEPTEMBER...	424.70	65.86	0	66
TOTAL.....	19368.60	61295.32	6703	67962

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN 1986								
30...	0950	119	6.5	92	30	--	--	--
31...	1215	206	7.5	526	293	--	--	--
FEB								
01...	0925	220	6.0	169	100	--	--	--
16...	1345	560	6.0	2300	3480	--	--	--
17...	1305	922	6.5	4290	10700	8	9	12
		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN 1986								
30...	--	--	66	72	81	95	100	--
31...	--	--	51	64	80	95	100	--
FEB								
01...	--	--	43	52	65	82	95	100
16...	--	--	28	43	61	83	96	100
17...	19	26	34	47	62	75	89	98

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV								
04...	1130	7.5	1	11	--	0	3	16
04...	1135	7.5	1	11	0	1	9	39
04...	1140	7.5	1	11	2	3	11	30
04...	1145	7.5	1	11	--	0	2	8
04...	1150	7.5	1	11	--	0	1	4
JAN								
18...	1115	7.0	1	54	--	--	--	0
18...	1120	7.0	1	54	--	0	2	12
18...	1125	7.0	1	54	--	0	1	8
18...	1130	7.0	1	54	--	--	0	1
18...	1135	7.0	1	54	--	--	0	1
30...	0955	6.5	1	119	--	--	--	--
30...	1000	6.5	1	119	0	1	3	10
30...	1005	6.5	1	119	--	0	2	16
30...	1010	6.5	1	119	--	--	0	1
30...	1015	6.5	1	119	--	0	1	5
FEB								
01...	0955	6.0	1	213	--	--	--	0
01...	1000	6.0	1	213	--	--	0	1
01...	1005	6.0	1	213	--	0	1	6
01...	1010	6.0	1	213	--	--	0	2
01...	1015	6.0	1	213	--	--	0	1
11...	1130	4.0	1	67	--	--	0	2
11...	1135	4.0	1	67	0	2	13	29
11...	1140	4.0	1	67	--	0	2	6
11...	1145	4.0	1	67	--	0	1	2
11...	1150	4.0	1	67	--	0	1	2
MAR								
05...	1200	8.0	1	100	0	2	4	10
05...	1205	8.0	1	100	--	--	0	1
05...	1210	8.0	1	100	--	--	0	3
05...	1215	8.0	1	100	--	--	--	0
05...	1220	8.0	1	100	--	--	--	--
AUG								
06...	1115	15.0	1	11	--	0	1	3
06...	1120	15.0	1	11	--	0	3	3
06...	1125	15.0	1	11	--	0	3	11
06...	1130	15.0	1	11	0	1	10	14
06...	1135	15.0	1	11	--	0	6	29

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
04...	27	33	36	37	38	52	100
04...	77	96	99	100	--	--	--
04...	46	64	93	100	--	--	--
04...	16	25	37	48	53	89	100
04...	9	14	23	32	51	100	--
JAN							
18...	1	2	3	4	8	12	100
18...	23	31	59	86	87	100	--
18...	21	50	96	100	--	--	--
18...	2	5	13	21	34	69	100
18...	2	4	8	11	14	29	100
30...	0	1	1	1	1	1	100
30...	28	53	85	98	100	--	--
30...	33	49	78	94	100	--	--
30...	3	10	30	48	57	75	100
30...	9	14	22	29	39	62	100
FEB							
01...	1	2	4	6	11	40	100
01...	11	39	81	98	100	--	--
01...	24	51	85	97	100	--	--
01...	7	18	49	70	87	100	--
01...	4	12	33	47	59	100	--
11...	3	5	7	8	12	22	100
11...	41	50	58	63	74	100	--
11...	11	17	26	36	49	65	100
11...	6	100	30	38	47	74	100
11...	6	10	15	20	26	48	100
MAR							
05...	21	35	47	52	56	69	100
05...	4	13	25	28	29	44	100
05...	8	19	32	35	38	38	100
05...	1	2	4	6	8	19	100
05...	0	1	3	4	8	18	100
AUG							
06...	6	10	13	19	27	35	100
06...	9	15	20	24	27	34	100
06...	25	50	87	99	100	--	--
06...	32	61	92	100	--	--	--
06...	70	95	100	--	--	--	--

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
DEC								
02...	1150	4.0	15	84	40	5.4	0	1
JAN								
18...	1045	7.0	12	55	36	11	--	0
30...	1020	6.5	14	117	40	22	--	0
31...	1225	6.5	11	213	44	53	0	1
FEB								
11...	1125	4.0	5	67	37	1.2	--	0
MAY								
07...	1115	6.5	13	56	28	49	--	0

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
DEC							
02...	16	50	71	88	99	100	--
JAN							
18...	1	7	22	54	94	100	--
30...	2	16	33	56	90	98	100
31...	6	29	56	80	96	99	100
FEB							
11...	1	8	28	58	92	99	100
MAY							
07...	2	17	43	70	94	100	--

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA

LOCATION.--Lat 40°40'21", long 122°55'07", in SW 1/4 NW 1/4 sec. 32, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on left bank 1.8 mi northeast of Douglas City, 11.3 mi downstream from Lewiston Diversion Dam, and 2.3 mi downstream from Limekiln Gulch.

DRAINAGE AREA.--812 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Clair Engle Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation above station.

AVERAGE DISCHARGE.--5 years, 992 ft³/s, 718,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,070 ft³/s, June 12, 1983, gage height, 10.45 ft; minimum daily, 286 ft³/s, Nov. 4, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,490 ft³/s, Mar. 10, gage height, 10.08 ft; minimum daily, 305 ft³/s, Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	339	335	367	345	979	2740	536	553	566	734	645	311
2	327	332	547	345	1330	2740	532	577	630	844	645	324
3	325	330	419	344	1110	2580	518	586	602	849	645	325
4	325	330	368	345	850	2260	511	563	506	849	645	325
5	325	330	401	383	682	2240	505	558	494	849	643	322
6	325	329	397	388	589	2240	508	548	490	849	637	319
7	324	325	412	368	536	3410	513	537	488	863	637	318
8	321	325	405	354	501	6000	516	531	477	864	641	318
9	321	328	386	349	475	6930	512	521	471	855	645	314
10	322	337	375	345	457	7110	507	526	464	849	645	311
11	325	332	364	343	446	6860	506	526	467	846	645	311
12	325	330	357	340	466	6850	508	514	445	841	645	311
13	325	327	355	339	550	6800	504	519	454	842	645	311
14	325	318	355	337	1650	6710	500	526	448	845	645	311
15	325	317	355	349	2180	6710	496	519	443	841	645	313
16	325	325	354	853	1730	6660	500	518	436	831	645	316
17	325	320	350	871	3730	6650	504	515	430	831	645	352
18	325	316	350	631	3990	6420	496	527	428	825	585	344
19	325	321	345	531	2230	5440	497	532	418	839	518	351
20	331	321	345	493	1760	4410	496	512	410	831	521	341
21	357	321	345	455	1500	3370	552	502	408	855	525	335
22	361	318	345	444	1670	2270	623	493	403	858	527	337
23	371	305	345	457	1790	1240	604	483	404	858	533	336
24	359	312	345	435	1850	1010	584	478	400	858	534	354
25	345	314	345	422	2490	605	577	508	480	858	465	360
26	340	310	345	413	2780	584	566	524	609	853	318	355
27	340	310	345	404	2770	573	560	510	610	840	311	355
28	336	336	345	407	2760	572	560	514	613	734	311	355
29	335	373	345	478	---	566	556	559	621	630	311	359
30	335	362	345	758	---	571	553	563	638	637	311	356
31	335	---	345	907	---	561	---	560	---	645	311	---
TOTAL	10324	9789	11402	14233	43851	113682	15900	16402	14753	25403	17024	9950
MEAN	333	326	368	459	1566	3667	530	529	492	819	549	332
MAX	371	373	547	907	3990	7110	623	586	638	864	645	360
MIN	321	305	345	337	446	561	496	478	400	630	311	311
AC-FT	20480	19420	22620	28230	86980	225500	31540	32530	29260	50390	33770	19740
CAL YR 1985	TOTAL	142131	MEAN	389	MAX	923	MIN	305	AC-FT	281900		
WTR YR 1986	TOTAL	302713	MEAN	829	MAX	7110	MIN	305	AC-FT	600400		

WATER-QUALITY RECORDS

SEDIMENT DATA: Water years 1981 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1981 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

SEDIMENT LOAD: Maximum daily, 17,300 tons, Feb. 14, 1986; minimum daily, 0 ton, May 19-22, 1982, Sept. 11-13, 1984, several days during October 1985.

SEDIMENT LOAD: Maximum daily, 17,300 tons, Feb. 14; minimum daily, 0 ton, several days during October.

[illegible]

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	339	1	.92	335	1	.90	367	4	4.0
2	327	1	.88	332	1	.90	547	42	45
3	325	1	.88	330	2	1.8	419	6	6.8
4	325	1	.88	330	2	1.8	368	5	5.0
5	325	0	.00	330	1	.89	401	5	5.4
6	325	0	.00	329	1	.89	397	4	4.3
7	324	0	.00	325	1	.88	412	3	3.3
8	321	0	.00	325	1	.88	405	3	3.3
9	321	0	.00	328	2	1.8	386	2	2.1
10	322	0	.00	337	2	1.8	375	2	2.0
11	325	0	.00	332	1	.90	364	1	.98
12	325	0	.00	330	1	.89	357	2	1.9
13	325	0	.00	327	1	.88	355	2	1.9
14	325	1	.88	318	1	.86	355	2	1.9
15	325	1	.88	317	1	.86	355	1	.96
16	325	1	.88	325	2	1.8	354	1	.96
17	325	2	1.8	320	2	1.7	350	2	1.9
18	325	1	.88	316	1	.85	350	2	1.9
19	325	1	.88	321	1	.87	345	2	1.9
20	331	2	1.8	321	1	.87	345	2	1.9
21	357	8	7.7	321	1	.87	345	2	1.9
22	361	3	2.9	318	1	.86	345	1	.93
23	371	1	1.0	305	1	.82	345	2	1.9
24	359	1	.97	312	1	.84	345	2	1.9
25	345	0	.00	314	1	.85	345	2	1.9
26	340	0	.00	310	1	.84	345	3	2.8
27	340	0	.00	310	2	1.7	345	3	2.8
28	336	0	.00	336	2	1.8	345	3	2.8
29	335	0	.00	373	3	3.0	345	2	1.9
30	335	0	.00	362	2	2.0	345	2	1.9
31	335	1	.90	---	---	---	345	2	1.9
TOTAL	10324	---	25.03	9789	---	36.60	11402	---	120.03
DAY	JANUARY			FEBRUARY			MARCH		
1	345	2	1.9	979	132	350	2740	82	607
2	345	2	1.9	1330	499	1880	2740	59	436
3	344	2	1.9	1110	58	174	2580	48	334
4	345	2	1.9	850	17	39	2260	38	232
5	383	3	3.1	682	10	18	2240	35	212
6	388	4	4.2	589	9	14	2240	30	181
7	368	3	3.0	536	7	10	3410	154	1420
8	354	2	1.9	501	6	8.1	6000	120	1600
9	349	2	1.9	475	5	6.4	6930	68	859
10	345	2	1.9	457	4	4.9	7110	94	1380
11	343	1	.93	446	4	4.8	6860	40	741
12	340	2	1.8	466	4	5.0	6850	40	740
13	339	2	1.8	550	5	7.4	6800	40	734
14	337	2	1.8	1650	1990	17300	6710	40	725
15	349	3	2.8	2180	1040	6620	6710	40	725
16	853	42	71	1730	240	1120	6660	39	701
17	871	22	52	3730	911	9550	6650	39	700
18	631	9	15	3990	428	4610	6420	38	659
19	531	6	8.6	2230	322	1940	5440	35	514
20	493	5	6.7	1760	149	708	4410	32	381
21	455	5	6.1	1500	98	397	3370	30	273
22	444	4	4.8	1670	90	406	2270	25	153
23	457	5	6.2	1790	106	512	1240	23	77
24	435	4	4.7	1850	87	435	1010	21	57
25	422	3	3.4	2490	117	787	605	17	28
26	413	3	3.3	2780	140	1050	584	17	27
27	404	3	3.3	2770	119	890	573	16	25
28	407	2	2.2	2760	101	753	572	16	25
29	478	6	7.7	---	---	---	566	15	23
30	758	19	39	---	---	---	571	14	22
31	907	142	461	---	---	---	561	14	21
TOTAL	14233	---	727.73	43851	---	49599.6	113682	---	14612

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	536	12	17	553	7	10	566	4	6.1
2	532	11	16	577	7	11	630	3	5.1
3	518	10	14	586	6	9.5	602	2	3.3
4	511	12	17	563	6	9.1	506	2	2.7
5	505	14	19	558	6	9.0	494	2	2.7
6	508	10	14	548	6	8.9	490	3	4.0
7	513	8	11	537	6	8.7	488	4	5.3
8	516	5	7.0	531	5	7.2	477	4	5.2
9	512	5	6.9	521	5	7.0	471	4	5.1
10	507	4	5.5	526	5	7.1	464	2	2.5
11	506	3	4.1	526	5	7.1	467	2	2.5
12	508	3	4.1	514	5	6.9	445	1	1.2
13	504	4	5.4	519	5	7.0	454	1	1.2
14	500	4	5.4	526	5	7.1	448	1	1.2
15	496	4	5.4	519	5	7.0	443	1	1.2
16	500	4	5.4	518	5	7.0	436	1	1.2
17	504	4	5.4	515	5	7.0	430	1	1.2
18	496	5	6.7	527	5	7.1	428	1	1.2
19	497	6	8.1	532	5	7.2	418	2	2.3
20	496	6	8.0	512	5	6.9	410	2	2.2
21	552	4	6.0	502	5	6.8	408	2	2.2
22	623	5	8.4	493	5	6.7	403	2	2.2
23	604	6	9.8	483	5	6.5	404	2	2.2
24	584	6	9.5	478	4	5.2	400	2	2.2
25	577	6	9.3	508	4	5.5	480	2	2.6
26	566	6	9.2	524	4	5.7	609	3	4.9
27	560	6	9.1	510	4	5.5	610	3	4.9
28	560	6	9.1	514	4	5.6	613	3	5.0
29	556	6	9.0	559	4	6.0	621	3	5.0
30	553	7	10	563	5	7.6	638	4	6.9
31	---	---	---	560	5	7.6	---	---	---
TOTAL	15900	---	274.8	16402	---	226.5	14753	---	95.5
JULY				AUGUST			SEPTEMBER		
1	734	4	7.9	645	4	7.0	311	4	3.4
2	844	4	9.1	645	4	7.0	324	4	3.5
3	849	4	9.2	645	4	7.0	325	4	3.5
4	849	4	9.2	645	4	7.0	325	4	3.5
5	849	4	9.2	643	4	6.9	322	4	3.5
6	849	5	11	637	4	6.9	319	4	3.4
7	863	5	12	637	4	6.9	318	5	4.3
8	864	5	12	641	4	6.9	318	5	4.3
9	855	5	12	645	4	7.0	314	6	5.1
10	849	5	11	645	4	7.0	311	6	5.0
11	846	6	14	645	4	7.0	311	7	5.9
12	841	6	14	645	4	7.0	311	8	6.7
13	842	6	14	645	3	5.2	311	8	6.7
14	845	6	14	645	3	5.2	311	9	7.6
15	841	5	11	645	3	5.2	313	9	7.6
16	831	5	11	645	3	5.2	316	9	7.7
17	831	5	11	645	3	5.2	352	9	8.6
18	825	5	11	585	3	4.7	344	10	9.3
19	839	5	11	518	3	4.2	351	10	9.5
20	831	5	11	521	3	4.2	341	10	9.2
21	855	5	12	525	3	4.3	335	11	9.9
22	858	5	12	527	3	4.3	337	10	9.1
23	858	5	12	533	3	4.3	336	9	8.2
24	858	5	12	534	2	2.9	354	9	8.6
25	858	5	12	465	2	2.5	360	9	8.7
26	853	5	12	318	3	2.6	355	8	7.7
27	840	5	11	311	4	3.4	355	8	7.7
28	734	4	7.9	311	6	5.0	355	7	6.7
29	630	4	6.8	311	6	5.0	359	7	6.8
30	637	4	6.9	311	5	4.2	356	6	5.8
31	645	4	7.0	311	4	3.4	---	---	---
TOTAL	25403	---	336.2	17024	---	164.6	9950	---	197.5

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1985	10324.00	25.03	0	25
NOVEMBER....	9789.00	36.60	0	37
DECEMBER....	11402.00	120.03	0	120
JANUARY 1986	14233.00	727.73	1	729
FEBRUARY....	43851.00	49599.60	189	49800
MARCH.....	113682.00	14612.00	7960	22400
APRIL.....	15900.00	274.80	0	275
MAY.....	16402.00	226.50	0	227
JUNE.....	14753.00	95.50	0	96
JULY.....	25403.00	336.20	0	336
AUGUST.....	17024.00	164.60	0	165
SEPTEMBER...	9950.00	197.50	0	198
TOTAL.....	302713.00	66416.09	8150	74408

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
FEB								
17...	1055	3640	6.5	1330	13100	22	23	32
21...	1330	1460	7.0	98	386	--	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
FEB								
17...		49	64	79	90	97	99	100
21...		--	--	68	82	95	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC								
03...	1035	6.5	1	419	0	1	2	5
03...	1040	6.5	1	419	0	1	1	3
03...	1045	6.5	1	419	--	0	1	2
03...	1050	6.5	1	419	1	1	2	5
03...	1055	6.5	1	419	--	0	1	1
FEB								
11...	1315	4.0	1	448	--	0	1	3
11...	1320	4.0	1	448	--	--	0	2
11...	1325	4.0	1	448	--	0	1	3
11...	1330	4.0	1	448	--	--	0	1

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
DEC								
03...	8	13	19	26	34	53	74	100
03...	7	11	15	18	22	29	46	100
03...	4	7	9	11	16	30	55	100
03...	9	15	21	22	28	39	100	--
03...	3	6	9	11	16	20	39	100
FEB								
11...	6	9	12	15	19	42	100	--
11...	4	8	10	12	14	33	100	--
11...	8	13	17	20	27	48	100	--
11...	3	6	7	8	10	26	100	--
11...	4	6	10	12	17	40	100	--

PARTICLE SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
JAN							
31...	1045	8.0	11	755	162	5.5	--
MAR							
04...	0945	7.5	21	2250	133	2.4	0
DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
JAN							
31...	0	1	8	26	72	99	100
MAR							
04...	1	42	83	89	91	97	100

KLAMATH RIVER BASIN

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", Long 123°26'20", in S 1/2 sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank 500 ft upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 mi southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi².

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-78-2: 1975 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 944.05 ft above National Geodetic Vertical Datum of 1929. October 1, 1931, to Jan. 19, 1940, at site 2 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 8-16. Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi upstream, and by transbasin diversion to Judge Francis Carr powerplant (station 11525430) since April 1963. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft³/s, 2,016,000 acre-ft/yr; 23 years (water years 1964-86), 1,813 ft³/s, 1,314,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft³/s, Feb. 25, 1958, gage height, 30.50 ft, from rating curve extended above 40,000 ft³/s on basis of slope-area measurement at gage height 43.2 ft; minimum, 82 ft³/s, Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft, from floodmarks, discharge, 172,000 ft³/s, on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,500 ft³/s, Feb. 18, gage height, 20.52 ft; minimum daily, 351 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	503	704	832	6030	6410	2630	1300	2090	938	711	369
2	422	499	1880	894	7500	6030	2400	1430	1980	1090	710	366
3	412	496	2580	938	8400	5770	2220	1590	1970	1130	702	363
4	410	497	1410	894	6740	5190	2100	1430	1490	1090	697	360
5	410	494	1620	1220	5100	5000	2010	1360	1360	1060	692	360
6	409	489	1540	1590	3950	4880	1960	1350	1300	1030	687	356
7	407	482	1670	1240	3170	8090	2050	1290	1180	1020	685	354
8	402	481	1720	1060	2660	13200	2080	1270	1080	1030	686	351
9	400	493	1350	989	2270	13100	2000	1260	1040	1010	684	352
10	399	540	1120	927	2000	13700	1940	1290	1050	994	682	355
11	408	510	978	866	1800	13000	1890	1260	1100	1020	676	359
12	418	491	884	822	1830	12500	1880	1220	1140	1010	675	360
13	420	484	818	791	2680	11700	1740	1230	1160	989	676	359
14	420	481	779	807	5810	10900	1620	1320	1190	985	671	357
15	420	490	749	940	16200	10400	1540	1300	1060	967	664	372
16	420	637	728	4420	16500	10000	1520	1300	957	948	662	408
17	422	605	725	9380	24900	9630	1530	1330	926	933	661	535
18	423	563	732	5690	30400	9240	1420	1480	931	916	660	601
19	420	537	762	3910	19400	8340	1390	1580	863	911	586	594
20	442	534	810	3130	15000	7090	1400	1530	822	907	563	529
21	620	524	839	2350	10800	6530	1590	1400	819	915	560	490
22	636	515	829	1930	10100	5430	1940	1240	861	931	558	479
23	1070	510	813	1990	10200	4270	1820	1130	905	941	557	465
24	968	540	827	1790	8670	3930	1610	1110	936	937	553	594
25	734	556	873	1620	7980	3300	1490	1290	936	929	554	737
26	644	531	877	1480	7720	2990	1400	1680	1040	908	468	750
27	604	522	848	1380	7350	2980	1350	1740	1050	886	379	865
28	575	657	811	1340	6900	3020	1370	1730	982	880	368	680
29	553	735	778	1880	---	2980	1360	1760	969	747	366	634
30	531	784	774	5190	---	2970	1320	1960	939	720	367	661
31	514	---	796	5020	---	2810	---	2120	---	714	370	---
TOTAL	15762	16180	32624	67310	252060	225380	52570	44280	34126	29486	18530	14415
MEAN	508	539	1052	2171	9002	7270	1752	1428	1138	951	598	480
MAX	1070	784	2580	9380	30400	13700	2630	2120	2090	1130	711	865
MIN	399	481	704	791	1800	2810	1320	1110	819	714	366	351
AC-FT	31260	32090	64710	133500	500000	447000	104300	87830	67690	58490	36750	28590
CAL YR 1985	TOTAL	352306	MEAN	965	MAX	3690	MIN	399	AC-FT	698800		
WTR YR 1986	TOTAL	802723	MEAN	2199	MAX	30400	MIN	351	AC-FT	1592000		

KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.--Lat 40°39'00", long 123°29'35", in NW 1/4 SW 1/4 sec.10, T.3 N., R.6 E., Trinity County, Hydrologic Unit 18010212, Trinity National Forest, on left bank 0.3 mi downstream from Big Creek, 3.0 mi northeast of Hyampom, and 3.5 mi downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,211.37 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: June 9 to July 7. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 1,534 ft³/s, 1,111,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,000 ft³/s, Feb. 17, 1986, gage height, 25.47 ft, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement; maximum gage height, 28.00 ft, Jan. 26, 1983; minimum daily, 14 ft³/s, Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft, from floodmarks, discharge, 88,000 ft³/s, on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	2400	13,800	12.32	Feb. 17	2230	*75,000	*25.47
Jan. 30	0345	11,700	11.37	Mar. 8	0900	19,600	12.78
Feb. 2	2345	10,900	11.01				

Minimum daily, 53 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	121	538	352	6030	4730	1900	623	367	168	84	59
2	63	120	3360	379	8910	4210	1810	705	355	168	80	60
3	63	120	3330	436	9830	3900	1740	768	339	168	78	59
4	63	117	1570	463	7250	3530	1640	702	330	160	76	56
5	63	115	1850	835	5440	3230	1550	688	327	158	74	55
6	62	111	1600	994	4310	3060	1460	720	323	152	74	54
7	60	110	1650	786	3580	5170	1450	709	317	148	71	54
8	58	107	1750	666	3070	16400	1380	669	306	139	71	53
9	58	114	1350	586	2690	12800	1290	640	290	134	70	54
10	58	155	1040	527	2440	11700	1220	615	280	131	69	54
11	61	155	848	478	2230	10900	1170	595	265	130	67	55
12	62	142	728	442	2500	9830	1140	576	260	127	66	55
13	63	129	638	417	5210	8500	1110	561	260	122	65	56
14	63	122	577	514	10900	7030	1070	550	252	118	63	57
15	63	132	516	1140	22300	6470	1040	532	240	113	63	60
16	65	184	464	6410	27100	5810	1040	518	250	110	63	74
17	65	198	429	9030	55700	5190	1060	502	260	110	62	159
18	65	197	407	4500	54300	4630	958	488	245	110	60	206
19	65	173	394	3120	33700	4290	881	478	230	109	60	281
20	70	155	390	2540	22400	4190	832	474	230	107	62	205
21	224	147	390	2070	14800	4070	849	479	210	103	61	149
22	341	143	383	1840	11800	3730	809	473	200	104	60	130
23	408	148	367	2770	9510	3390	795	463	190	100	60	121
24	307	205	355	2400	7870	3220	767	447	190	96	60	141
25	223	269	347	2030	6440	2830	755	433	190	94	59	188
26	179	252	347	1750	5940	2580	724	423	189	92	59	308
27	155	225	343	1560	5780	2420	703	418	188	91	58	445
28	142	503	333	1440	5400	2290	688	410	188	90	58	333
29	133	708	322	3960	---	2190	666	398	188	86	58	252
30	128	695	322	10100	---	2090	645	388	170	87	58	206
31	124	---	332	6470	---	1980	---	379	---	86	58	---
TOTAL	3617	6072	27270	71005	357430	166360	33142	16824	7629	3711	2027	4039
MEAN	117	202	880	2290	12770	5366	1105	543	254	120	65.4	135
MAX	408	708	3360	10100	55700	16400	1900	768	367	168	84	445
MIN	58	107	322	352	2230	1980	645	379	170	86	58	53
AC-FT	7170	12040	54090	140800	709000	330000	65740	33370	15130	7360	4020	8010

KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE 1/4 NW 1/4 sec.25, T.8 N., R.4 E., Humboldt County, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi².

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.

REVISED RECORDS.--WSP 1565: 1913. WDR CA-77-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 274.82 ft above National Geodetic Vertical Datum of 1929. Prior to October 1931, nonrecording gage at site 0.4 mi upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi upstream at datum 31.67 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400) 84 mi upstream, and by transbasin diversion to Judge Francis Carr powerplant (station 11525430) since April 1963. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--33 years (water years 1912-13, 1917-18, 1932-60), 5,619 ft³/s, 4,071,000 acre-ft/yr; 23 years (water years 1964-86), 5,134 ft³/s, 3,720,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft³/s, Dec. 22, 1964, gage height, 57.0 ft present site and datum, from floodmarks; minimum, 162 ft³/s, Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0415	40,500	27.89	Feb. 18	0145	*116,000	*42.43
Feb. 3	0245	27,600	24.76	Mar. 8	1615	41,100	28.37

Minimum daily, 545 ft³, Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575	807	2040	1600	13700	15500	5990	2890	2960	1340	933	615
2	581	794	5940	1750	18400	14100	5610	3340	2820	1430	929	608
3	562	792	11500	2090	26200	12900	5260	3910	2800	1580	922	605
4	559	790	5720	1980	20400	11700	5010	3570	2430	1560	914	600
5	554	784	4980	2370	14200	10600	4840	3420	2210	1500	905	599
6	550	777	5260	3610	11300	9720	4700	3650	2140	1430	899	593
7	545	770	5670	3050	9140	15100	4770	3640	2060	1380	895	587
8	545	768	6050	2600	7480	35200	4760	3510	1920	1390	895	585
9	547	812	4950	2340	5770	36700	4630	3460	1840	1360	894	586
10	549	970	3880	2130	6270	33600	4470	3360	1790	1320	889	591
11	552	912	2880	1950	5810	32700	4340	3220	1800	1320	875	595
12	562	849	1860	1820	6160	30100	4310	3050	1830	1340	870	597
13	563	816	1740	1730	10100	26400	4190	2950	1830	1290	866	596
14	563	799	2160	1830	16100	23300	3960	2950	1850	1250	865	599
15	563	869	1990	2820	46000	21300	3800	2890	1780	1220	860	611
16	563	1260	1870	11300	56500	19700	3790	2810	1660	1190	852	676
17	562	1280	1780	32300	82400	18100	3960	2770	1610	1170	852	883
18	560	1160	1740	16300	98300	16800	3710	2830	1640	1150	850	1140
19	560	1040	1740	11100	71100	15300	3570	2910	1570	1140	833	1130
20	583	980	1770	8980	56600	13500	3500	2860	1460	1130	777	1050
21	939	939	1810	7130	41200	12600	3610	2800	1390	1120	770	905
22	1470	914	1780	6120	38000	11100	3900	2610	1390	1130	767	842
23	2410	918	1730	7240	35000	9820	3880	2420	1440	1130	765	808
24	1960	1040	1710	7010	28900	9190	3610	2320	1450	1130	758	941
25	1350	1220	1730	6180	24200	8240	3470	2370	1460	1120	758	1630
26	1090	1170	1740	5490	21200	7480	3290	2690	1450	1110	747	2300
27	991	1090	1680	5020	19100	7220	3160	2860	1570	1080	646	2720
28	929	2590	1620	4710	17100	7110	3100	2780	1500	1070	617	1890
29	887	2780	1540	5840	---	6920	3060	2770	1420	1020	612	1430
30	853	2450	1520	17500	---	6700	2980	2850	1400	948	611	1190
31	826	---	1540	13600	---	6370	---	3000	---	938	614	---
TOTAL	24903	33140	93920	199490	806630	505070	123230	93460	54470	38286	25240	28502
MEAN	803	1105	3030	6435	28810	16290	4108	3015	1816	1235	814	950
MAX	2410	2780	11500	32300	98300	36700	5990	3910	2960	1580	933	2720
MIN	545	768	1520	1600	5770	6370	2980	2320	1390	938	611	585
AC-FT	49400	65730	186300	395700	1600000	1002000	244400	185400	108000	75940	50060	56530

CAL YR 1985 TOTAL 834910 MEAN 2287 MAX 11600 MIN 545 AC-FT 1656000

TRINITY RIVER BASIN

11530020 SUPPLY CREEK AT HOOPA, CA

LOCATION.--Lat 41°03'06", long 123°40'47", in NW 1/4 sec.25, T.8 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on left bank side at upstream side of bridge on Loop Road, 1,800 ft upstream from mouth and 1.0 mi downstream from Rock Creek.

DRAINAGE AREA.--15.8 mi².

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 29 to Sept. 23. Records fair. Some diversion above station.

AVERAGE DISCHARGE.--5 years, 82.2 ft³/s, 59,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,110 ft³/s, Feb. 17, 1986, gage height, 4.80 ft from rating curve extended above 900 ft³/s on basis of runoff comparisons with nearby stations; minimum daily, 4.1 ft³/s, Aug. 29, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 16	1815	1,220	3.92				
Feb. 17	2230	*2,110	*4.80				

Minimum daily, 4.30 ft³/s, Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	6.0	66	23	118	128	65	32	17	9.6	5.3	4.6
2	4.7	5.8	305	28	212	111	61	44	17	9.6	5.2	4.6
3	4.5	5.8	265	48	322	98	59	41	17	9.5	5.1	4.5
4	4.5	5.7	139	36	260	89	56	38	16	9.6	5.1	4.5
5	4.5	5.7	120	44	194	81	54	48	17	9.3	4.9	4.4
6	4.7	5.5	135	50	151	76	53	67	17	9.3	4.8	4.5
7	4.7	5.5	200	44	126	333	51	65	16	9.1	4.9	4.5
8	4.7	5.7	186	44	114	511	49	58	15	8.5	4.8	4.5
9	4.5	15	143	41	102	442	47	52	15	8.4	4.8	4.5
10	4.4	18	108	38	91	327	46	46	14	8.5	4.6	4.6
11	4.4	11	84	35	84	390	45	41	14	8.5	4.6	4.6
12	4.5	8.5	69	33	114	317	49	37	13	8.3	4.6	4.6
13	4.6	7.3	59	32	179	290	45	35	13	8.0	4.6	4.6
14	4.5	6.9	51	45	202	257	44	33	13	8.0	4.6	4.6
15	4.5	26	46	64	438	219	43	32	13	8.0	4.6	7.8
16	4.5	46	42	681	1100	189	45	31	12	7.8	4.6	18
17	4.4	32	39	480	1490	166	45	31	13	7.7	4.6	40
18	4.6	23	36	246	1130	148	43	30	15	7.6	4.6	26
19	4.5	17	34	182	880	133	41	26	13	7.5	4.6	15
20	7.4	14	32	145	807	121	40	26	12	7.3	4.5	9.2
21	13	12	30	120	737	111	39	29	12	6.8	4.7	7.8
22	64	11	28	118	843	103	37	25	12	6.5	4.6	7.1
23	65	14	27	154	648	101	36	23	11	7.0	4.7	6.5
24	27	25	25	141	421	102	35	22	11	6.6	4.7	21
25	14	26	25	121	289	93	37	21	10	6.4	4.5	47
26	10	20	24	106	220	86	34	21	10	6.3	4.3	120
27	8.2	21	23	93	176	80	34	20	10	6.2	4.6	61
28	7.5	126	22	85	150	77	33	20	10	6.0	4.8	32
29	6.9	86	21	114	---	73	32	19	10	5.7	4.6	26
30	6.4	55	21	110	---	70	32	18	9.9	5.6	4.5	17
31	6.2	---	20	103	---	67	---	17	---	5.3	4.6	---
TOTAL	322.0	666.4	2425	3604	11598	5389	1330	1048	397.9	238.5	146.0	525.0
MEAN	10.4	22.2	78.2	116	414	174	44.3	33.8	13.3	7.69	4.71	17.5
MAX	65	126	305	681	1490	511	65	67	17	9.6	5.3	120
MIN	4.4	5.5	20	23	84	67	32	17	9.9	5.3	4.3	4.4
AC-FT	639	1320	4810	7150	23000	10690	2640	2080	789	473	290	1040
CAL YR 1985	TOTAL	12932.2	MEAN	35.4	MAX	305	MIN	4.1	AC-FT	25650		
WTR YR 1986	TOTAL	27689.8	MEAN	75.9	MAX	1490	MIN	4.3	AC-FT	54920		

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'52", long 123°59'57", in SW 1/4, sec.13, T.13 N., R.2 E., Del Norte County, Hydrologic Unit 18010209, on right bank 0.2 mi upstream from Turwar Creek, and 2.2 mi southeast of Klamath.

DRAINAGE AREA.--12,100 mi², approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year.
Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20. WDR CA-81-2: 1980.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is National Geodetic Vertical Datum of 1929.
Prior to June 1926, nonrecording gage at site 2.6 mi upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi upstream at datum 5.60 ft higher.

REMARKS.--Estimated daily discharge: Jan. 31. Records fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--52 years, 18,120 ft³/s, 13,128,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft³/s, Dec. 23, 1964, gage height, 55.3 ft former datum, from floodmarks, from rating curve extended above 230,000 ft³/s on basis of flood-routing study; minimum daily 1,310 ft³/s, Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0715	134,000	22.64	Mar. 9	0145	116,000	22.59
Feb. 18	1200	*459,000	*36.76				
Minimum daily, 2,490 ft ³ /s, Sept. 2.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3940	5240	11200	8540	40700	60300	25100	11700	13400	4550	3010	2510
2	3820	5060	20800	9650	44800	54400	23900	14900	12500	4500	2980	2490
3	3760	4930	44400	12000	79300	49800	22800	20100	11900	4550	3150	2700
4	3770	4950	27700	11100	70400	46200	21900	17800	11100	4540	3200	2720
5	3860	4970	21200	11900	53000	43600	21000	16900	9970	4460	3190	2700
6	3950	4950	21800	16800	42800	41500	20200	18900	9360	4380	3140	2670
7	3970	4940	27500	15000	36300	56200	19900	19200	8690	4290	3120	2650
8	4100	5030	32200	13400	31600	101000	20200	17500	8070	4250	3100	2650
9	4150	5650	26100	13600	28000	107000	19600	17000	7530	4220	3070	2670
10	4080	6880	20200	13100	25200	89900	18800	16900	7170	4170	3030	2700
11	4130	6430	16800	11900	23000	88000	18100	16100	6930	4100	3010	2700
12	4170	6020	14500	11100	22500	83100	18200	15200	6840	4080	2980	2690
13	4160	5720	13000	10500	31800	76900	17800	14600	6730	4010	2970	2690
14	4090	5560	12000	10400	37400	70700	16800	14400	6640	3900	2940	2710
15	4110	5440	11300	12600	95300	64100	16400	14100	6620	3850	2910	2750
16	4000	7710	10600	36100	157000	59100	16800	13700	6250	3790	2880	2960
17	3930	8420	10300	117000	189000	53900	17000	12800	6140	3730	2870	3690
18	4010	7570	9820	75700	404000	50300	16400	12800	8350	3700	2860	4780
19	3950	6610	9810	51600	299000	47400	15600	13300	5980	3680	2860	5130
20	3750	6110	9740	41400	225000	44300	15200	13500	5610	3650	2790	4630
21	5060	5890	9780	33200	163000	41300	15700	13800	5430	3610	2720	4070
22	8060	5730	9700	29000	154000	38800	16900	12500	5280	3560	2700	3760
23	15500	6060	9570	34400	165000	35000	16900	11300	5210	3520	2680	3630
24	12000	6750	9470	34200	130000	35500	15800	10500	5160	3480	2680	4090
25	8120	7120	9490	29500	101000	33500	14600	10400	5090	3410	2680	6480
26	6920	7070	9580	25800	84300	30500	13800	11400	4950	3380	2690	11900
27	6220	7230	9460	23400	74900	29100	12700	12500	4930	3340	2660	13300
28	5900	12900	9380	22200	67200	27900	12500	12600	4850	3310	2550	8580
29	5780	16500	8770	23800	---	27700	12300	12600	4730	3270	2510	6520
30	5570	13700	8420	42000	---	27400	11900	12900	4660	3100	2500	5600
31	5390	---	8330	44000	---	26300	---	13500	---	3050	2510	---
TOTAL	164220	207140	472920	844890	2875500	1640700	524800	445400	214070	119430	88940	129120
MEAN	5297	6905	15260	27250	102700	52930	17490	14370	7136	3853	2869	4304
MAX	15500	16500	44400	117000	404000	107000	25100	20100	13400	4550	3200	13300
MIN	3750	4930	8330	8540	22500	26300	11900	10400	4660	3050	2500	2490
AC-FT	325700	410900	938000	1676000	5704000	3254000	1041000	883500	424600	236900	176400	256100

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL DATA: Water years 1951 to current year.

BIOLOGICAL DATA: Water years 1975-81.

SPECIFIC CONDUCTANCE: Water years 1975-81.

WATER TEMPERATURE: Water years 1966-81.

SEDIMENT DATA: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: November 1965 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 27.0°C, Sept. 12, 1979; minimum recorded, 2.5°C, Feb. 2, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 21...	1355	5880	167	8.10	7.5	765	2.5	12.4	103	K4	K2
JAN 23...	1535	36000	115	7.80	8.0	770	22	12.0	100	K12	K30
MAR 18...	1600	49900	127	7.70	9.5	765	59	11.4	99	K11	K17
MAY 15...	1500	14100	128	8.20	14.0	760	4.0	10.5	102	<1	K3
JUL 08...	1400	4240	158	8.70	20.0	760	1.0	9.2	102	K4	K2
SEP 03...	1115	2700	192	8.40	21.5	760	1.0	8.5	97	K4	20
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	CAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L CACO3)
NOV 21...	73	1	16	7.9	8.7	20	0.5	1.3	88	0	72
JAN 23...	53	3	12	5.6	3.8	13	0.2	0.70	60	0	50
MAR 18...	55	0	12	6.2	4.7	15	0.3	1.0	70	0	58
MAY 15...	61	1	14	6.2	5.0	15	0.3	0.90	74	0	61
JUL 08...	70	0	16	7.4	6.5	16	0.3	1.1	89	0	73
SEP 03...	73	0	16	8.0	10	22	0.5	2.0	102	0	83
DATE	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV 21...	72	9.9	4.4	0.10	22	111	120	0.15	0.030	0.340	0.010
JAN 23...	51	5.8	2.2	<0.10	16	73	77	0.10	0.010	0.210	0.050
MAR 18...	60	7.4	1.9	<0.10	16	92	84	0.13	<0.010	<0.100	0.030
MAY 15...	60	7.3	2.4	<0.10	15	89	87	0.12	<0.010	<0.100	0.020
JUL 08...	73	8.7	3.3	<0.10	13	99	100	0.13	<0.010	<0.100	<0.010
SEP 03...	83	3.7	3.0	0.20	20	126	110	0.17	<0.010	<0.100	0.030

See footnotes at end of table.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 21...	0.020	0.40	0.140	0.040	0.040	30	4	25	<0.5	<1	<1
JAN 23...	0.030	0.50	0.050	0.020	0.020	30	3	21	<0.5	<1	<1
MAR 18...	0.030	0.30	0.050	0.020	0.020	--	--	--	--	--	--
MAY 15...	0.020	0.30	0.030	0.010	0.010	20	2	23	<0.5	<1	<1
JUL 08...	0.020	<0.20	0.010	<0.010	<0.010	--	--	--	--	--	--
SEP 03...	0.020	0.40	0.070	0.050	0.040	--	--	--	--	--	--

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)
NOV 21...	<3	1	28	<1	8	5	<0.1	<10	2	<1	<1
JAN 23...	<3	1	35	1	<4	3	<0.1	<10	2	<1	<1
MAR 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	<3	2	12	<1	4	3	<0.1	<10	4	<1	<1
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
NOV 21...	110	<6	<3	--	--	--	--	--	--	--	--
JAN 23...	76	<6	6	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	<0.6	4.1	1.2	3.0	1.0	2.6	0.02	0.10
MAY 15...	76	<6	17	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal count).
 < Actual value is known to be less than the value shown.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
18...*	1430	130	126	7.60	9.5	765	11.8	103	246	61
18...*	1535	270	126	7.70	9.5	765	11.6	101	233	64
18...*	1605	390	128	7.70	9.5	765	11.4	99	302	49
18...*	1630	500	128	7.60	9.5	765	11.3	99	200	72
18...*	1700	650	128	7.60	9.5	765	11.8	103	229	65
SEP										
03...*	0945	150	191	8.30	21.5	760	8.1	92	5	--
03...*	1040	275	192	8.40	21.5	760	8.3	94	5	--
03...*	1110	360	194	8.40	21.5	760	8.5	97	5	--
03...*	1150	430	192	8.50	21.5	760	8.6	98	5	--
03...*	1225	510	193	8.50	21.5	760	8.8	100	14	--

*Instantaneous streamflow at the time of cross-sectional measurements: Mar. 18, 49,900 ft³/s;
Sept. 3, 2,700 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
21...	1355	5880	7.5	4	64	--
JAN						
23...	1535	36000	8.0	184	17900	39
MAR						
18...	1600	49900	9.5	242	32600	62
MAY						
15...	1500	14100	14.0	24	914	--
JUL						
08...	1400	4240	20.0	5	57	--
SEP						
03...	1115	2700	21.5	7	51	--

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in SW 1/4 SW 1/4 sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, on left bank 0.5 mi downstream from South Fork, and 8.1 mi east of Crescent City.

DRAINAGE AREA.--609 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: Feb. 14-16. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--55 years, 3,883 ft³/s, 2,813,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft³/s on basis of slope-area measurement at gage height 39.51 ft; minimum daily, 160 ft³/s, Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 36,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	1900	38,400	23.62	Feb. 17	2400	95,700	32.63
Jan. 16	1900	64,900	28.22	Feb. 22	2000	*96,800	*32.78

Minimum daily, 196 ft³/s, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	691	3290	1850	7780	5870	2630	2130	1060	609	362	234
2	255	642	17300	2600	15400	4960	2370	9330	1030	596	353	225
3	248	603	19500	4960	20800	4320	2170	11600	1010	589	346	215
4	246	572	8790	3290	15000	3850	2030	6540	983	615	341	214
5	243	556	7250	5020	10100	3470	1920	6860	966	614	325	214
6	243	527	7300	6020	7690	3280	1790	10300	967	573	318	211
7	243	504	12400	4100	6210	18200	1690	8750	946	559	316	206
8	243	511	11500	4220	5230	20800	1630	6620	899	555	314	205
9	238	888	8290	5030	4520	20300	1550	5500	863	548	314	204
10	235	1520	5890	4200	3990	14200	1470	4680	837	541	309	202
11	234	1160	4560	3650	3600	17700	1380	3990	815	537	304	202
12	234	964	3720	3130	5040	16000	1680	3470	794	530	294	199
13	234	842	3160	2840	9140	15300	1620	3120	779	514	291	197
14	234	768	2750	2920	15000	13100	1490	2810	768	504	285	196
15	234	1750	2460	5210	28000	9550	1640	2510	795	494	284	226
16	234	5150	2230	28300	48000	7490	3940	2280	771	483	281	316
17	234	3800	2080	25500	44800	6200	4820	2100	819	474	281	537
18	234	2980	1970	13500	71100	5260	3660	1960	997	474	280	872
19	234	2180	1860	10800	49500	4680	3100	1840	842	473	277	755
20	400	1880	1760	8970	33400	4370	2930	1850	782	461	274	438
21	1140	1730	1660	6740	28400	4280	2680	1870	755	450	266	344
22	4230	1660	1580	7170	76300	3880	2280	1760	730	432	262	297
23	9300	1560	1500	15200	57300	4390	1970	1610	707	423	262	280
24	4450	1680	1450	10500	25400	9010	1780	1510	683	422	256	1050
25	2150	1800	1390	7380	16000	6340	1820	1430	671	409	252	5050
26	1460	1620	1330	5880	11600	4990	1660	1370	651	407	249	10400
27	1130	1480	1260	5060	8790	4330	1640	1330	641	403	246	5670
28	1080	5970	1200	4560	7060	3880	1760	1270	640	396	246	2530
29	947	6740	1150	5490	---	3510	1670	1210	649	389	243	1490
30	834	4190	1110	6940	---	3160	1540	1160	627	379	243	1070
31	755	---	1080	6120	---	2830	---	1110	---	370	241	---
TOTAL	32432	56918	142770	227150	635150	249500	64310	113870	24477	15223	8915	34249
MEAN	1046	1897	4605	7327	22680	8048	2144	3673	816	491	288	1142
MAX	9300	6740	19500	28300	76300	20800	4820	11600	1060	615	362	10400
MIN	234	504	1080	1850	3600	2830	1380	1110	627	370	241	196
AC-FT	64330	112900	283200	450600	1260000	494900	127600	225900	48550	30190	17680	67930

CAL YR 1985	TOTAL	740882	MEAN	2030	MAX	22000	MIN	234	AC-FT	1470000
WTR YR 1986	TOTAL	1604964	MEAN	4397	MAX	76300	MIN	196	AC-FT	3183000

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.

CHEMICAL DATA: Water years 1952 to current year.

BIOLOGICAL DATA: Water year 1978-81.

SPECIFIC CONDUCTANCE: Water years 1979-81.

WATER TEMPERATURE: Water years 1966-81.

SEDIMENT DATA: Water years 1955-56, November 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURE: October 1965 to September 1981.

SUSPENDED-SEDIMENT DISCHARGE: November 1977 to September 1979, October 1980 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 154 microsiemens, Sept. 24-26, 1981; minimum recorded, 62 microsiemens, Jan. 12, 1980.

WATER TEMPERATURE: Maximum recorded, 24.5°C, July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C, Dec. 10, 11, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
DEC												
19...	1235	1870	96	7.90	6.0	765	1.5	13.1	105	K4	K6	51
MAR												
19...	1345	4630	82	7.50	9.5	765	1.2	12.3	107	K4	K2	48
JUN												
11...	1245	810	108	8.10	18.0	760	1.0	10.1	107	K2	48	57
SEP												
04...	1100	214	146	8.30	20.5	760	0.40	9.0	100	K10	K3	74
DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	CAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L CACO3)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC												
19...	4	5.1	9.2	1.9	8	0.1	0.20	57	0	47	48	3.6
MAR												
19...	7	6.8	7.5	1.9	8	0.1	0.40	50	0	41	41	2.7
JUN												
11...	2	6.5	9.9	2.2	8	0.1	0.20	68	0	55	55	3.7
SEP												
04...	3	8.0	13	3.0	8	0.2	0.70	87	0	71	71	4.5
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL AMMONIA (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC												
19...	2.1	<0.10	14	55	64	0.08	<0.010	<0.100	0.010	0.010	<0.20	0.010
MAR												
19...	2.0	<0.10	14	58	60	0.08	<0.010	<0.100	<0.010	<0.010	0.20	<0.010
JUN												
11...	2.2	<0.10	14	69	72	0.09	<0.010	<0.100	<0.010	0.010	<0.20	0.010
SEP												
04...	2.7	<0.10	14	106	89	0.14	<0.010	<0.100	0.020	0.010	<0.20	0.020

See footnotes at end of table.

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC, DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
DEC 19...	<0.010	<0.010	<10	2	14	<0.5	1	2	<3	3	7
MAR 19...	<0.010	<0.010	30	2	16	<0.5	<1	2	<3	<1	21
JUN 11...	0.020	<0.010	10	2	18	<0.5	1	1	<3	1	4
SEP 04...	<0.010	<0.010	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 19...	1	<4	<1	<0.1	<10	4	<1	<1	32	<6	10
MAR 19...	<1	<4	3	<0.1	<10	<1	<1	<1	28	<6	7
JUN 11...	<1	4	3	<0.1	<10	5	<1	<1	35	<6	6
SEP 04...	--	--	--	--	--	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAMPLE	SPE-	PH	TEMPER-	BARO-	OXYGEN,	OXYGEN,	SEDIMENT,	
		LOC- ATION, CROSS SECTION (FT FM L BANK)	CIFIC CON- DUCT- ANCE (US/CM)			PRES- SURE (MM OF HG)				DIS- SOLVED (PER- CENT SATUR- ATION)
MAR										
19...	*	1230	65.0	84	7.50	10.0	765	12.2	108	3
19...	*	1305	120	83	7.50	10.0	765	12.3	108	3
19...	*	1340	164	82	7.50	10.0	765	12.2	108	7
19...	*	1415	198	81	7.50	9.5	765	12.4	108	6
19...	*	1445	268	82	7.50	9.5	765	12.4	108	4
SEP										
04...	*	0955	40.0	145	8.30	20.5	760	9.0	100	1
04...	*	1025	60.0	145	8.30	20.5	760	9.0	100	1
04...	*	1105	80.0	146	8.30	20.5	760	9.0	100	2
04...	*	1135	102	145	8.30	20.5	760	9.0	100	2
04...	*	1215	116	145	8.30	20.5	760	9.0	100	2

*Instantaneous streamflow at the time of cross-sectional measurements:

Mar. 19: 4630 ft³/sSept. 4: 214 ft³/s

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
DEC					
19...	1235	1870	6.0	1	5.0
MAR					
19...	1345	4630	9.5	5	63
JUN					
11...	1245	810	18.0	1	2.2
SEP					
03...	1100	214	20.5	2	1.2

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT PARTIAL-RECORD SITES DURING WATER YEAR 1986

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements Date	Discharge (ft ³ /s)
Pomponio Creek Basin						
Pomponio Creek		Lat 37°18'12", long 122°22'44", in San Antonio or Pescadero Grant, San Mateo County, Hydrologic Unit 18050006, at bridge culvert at intersection of Stage Road and Pomponio Road 2.3 mi south of San Gregorio.	5.48	1985	10-08-85 11-06-85 12-17-85 1-07-86 2-11-86 3-10-86 4-19-86 5-14-86 6-19-86 8-12-86	a.10 a.10 .52 2.00 3.75 88.4 .96 .43 a.12 a.04
San Gregorio Creek Basin						
La Honda Creek	San Gregorio Creek	Lat 37°19'09", long 122°16'21", in SW 1/4 (revised), SW 1/4 sec. 14, T.7 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, at bridge on Entrada Way 500 ft east of intersection with La Honda Road at La Honda.	10.8	1985	10-08-85 11-06-85 12-17-85 1-07-86 2-11-86 3-25-86 4-18-86 5-14-86 6-19-86 8-12-86	a.41 a.46 1.25 3.01 4.18 34.7 6.96 3.25 a1.88 a.86
Alpine Creek	San Gregorio Creek	Lat 37°17'58", long 122°15'48", in NW 1/4 NE 1/4 sec. 26, T.7 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, at upstream bridge at intersection of Alpine Road and Pescadero Road, 1.5 mi southeast of La Honda.	8.29	1985	10-08-85 11-06-85 12-17-85 1-07-86 2-11-86 3-10-86 4-18-86 5-14-86 6-19-86 8-12-86	a.62 a.81 1.31 2.56 3.48 140 6.70 3.95 a2.30 a1.11
Tunitas Creek Basin						
Tunitas Creek		Lat 37°21'26", long 122°23'46", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, at bridge crossing on State Highway 1, 2.5 mi north of San Gregorio.	11.6	1985	10-08-85 11-06-85 12-17-85 1-07-86 2-11-86 3-10-86 4-18-86 5-14-86 6-19-86 8-12-86	a.80 a.18 .50 3.59 3.53 162 3.60 1.93 a.71 a.24

a Base flow.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

LOCATION.--Lat 37°06'52", long 121°41'22", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, 500 ft upstream from Llagas Avenue bridge, 0.3 mi downstream from Cheshbro Dam, 0.3 mi upstream from small left bank tributary, and 2.3 mi west of Morgan Hill.

DRAINAGE AREA.--19.6 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: Water year 1985.

REMARKS.--Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CaCO3)
JAN 1986										
30...	1400	1.2	438	8.20	11.0	750	15	10.8	100	230
FEB										
14...	1500	5.2	273	8.10	12.0	745	1.0	9.0	85	140
26...	1045	43	231	8.10	13.0	750	81	10.0	96	110
MAR										
12...	1430	220	218	8.10	13.5	750	69	10.6	103	100
MAY										
14...	1300	1.8	300	8.30	16.0	750	1.5	10.6	109	140
JUL										
24...	1230	17	302	8.10	16.5	755	9.5	9.5	98	160
SEP										
24...	1415	9.0	366	8.00	19.0	745	21	8.3	92	190

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO3	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986									
30...	25	40	31	12	10	0.4	1.4	203	26
FEB									
14...	3	18	22	6.7	10	0.3	1.0	133	13
26...	4	23	13	6.5	11	0.3	1.3	107	10
MAR									
12...	2	19	13	6.1	11	0.3	1.3	99	11
MAY									
14...	0	27	18	7.6	10	0.3	1.1	142	12
JUL									
24...	0	31	19	8.4	10	0.3	1.2	159	10
SEP									
24...	12	37	24	9.9	10	0.3	1.6	179	16

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
30...	12	0.1	13	260	0.35	0.83	0.30	0.08	0.09
FEB									
14...	6.4	<0.1	19	170	0.23	2.3	0.30	0.08	0.06
26...	5.9	<0.1	19	140	0.19	17	0.40	0.07	0.05
MAR									
12...	5.6	0.1	18	130	0.18	79	0.30	0.07	0.05
MAY									
14...	6.9	0.1	20	180	0.24	0.87	0.40	0.02	0.02
JUL									
24...	7.1	0.1	21	190	0.26	8.8	<0.10	0.14	0.16
SEP									
24...	8.6	0.1	19	220	0.3	5.4	<0.10	0.01	0.04

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
JAN 1986												
	30...	0.52	0.41	0.6	0.5	0.9	0.05	<0.01	200	10		
FEB												
	14...	0.82	0.84	0.9	0.9	1.2	0.08	0.03	120	150		
	26...	0.43	0.25	0.5	0.3	0.9	0.05	0.01	110	10		
MAR												
	12...	0.33	0.35	0.4	0.4	0.7	0.06	0.02	100	120		
MAY												
	14...	0.38	0.28	0.4	0.3	0.8	0.03	0.01	130	12		
JUL												
	24...	0.36	0.24	0.5	0.4	--	0.05	0.02	140	68		
SEP												
	24...	0.59	0.36	0.6	0.4	--	0.04	<0.01	170	7		
DATE		TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 1986												
	14...	1500	70	<1	<1	<10	4	<1	20	<0.1	<100	40
	26...	1045	20	<1	1	<10	1	<1	<10	<0.1	<100	<10
JUL												
	24...	1230	<10	<1	<1	<10	4	<5	450	<0.1	6	--
			DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)			
FEB 1986												
		04...A		1048	1.1	12.0	2100	300	460			
		11...A		1025	1.1	10.0	1900	50	65			
		18...A		1100	1250	14.0	2126	930	1200			
		25...A		1025	42	14.0	2300	220	330			
MAR												
		04...A		1105	11	14.0	480	20	70			
JUL												
		22...A		1040	23	17.0	150	45	8			
		29...A		0950	17	17.0	200	60	8			
AUG												
		05...A		0950	21	17.0	330	280	36			
		12...A		0935	21	27.0	100	19	7			
		19...A		1000	19	27.5	150	120	11			

< Actual value is known to be less then the value shown.

A Bacteria sample collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA

LOCATION.--Lat 37°05'23", long 121°39'38", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank at Machado School, 125 ft upstream from Sycamore Avenue bridge, 1,300 ft downstream from small right bank tributary, and 2.8 mi south of Morgan Hill.

DRAINAGE AREA.--24.1 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1980 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm. Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CaCO3)
JAN 1986										
30...	1300	2.5	421	8.00	13.5	750	10	10.2	100	220
FEB										
14...	1400	18	347	8.00	13.0	750	5.0	9.5	92	170
26...	0930	70	303	7.90	13.0	755	55	9.7	93	150
MAR										
12...	1300	258	240	8.00	14.0	755	74	10.2	100	110
MAY										
14...	1200	4.0	430	7.80	18.0	750	1.0	9.0	97	210
JUL										
24...	1115	23	309	8.10	17.0	760	4.0	9.9	103	160
SEP										
24...	1330	9.9	404	8.00	18.5	745	10	9.3	102	200

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO3	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CaCO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986									
30...	24	37	30	11	10	0.3	1.4	192	23
FEB									
14...	18	29	23	10	11	0.3	1.4	149	16
26...	8	28	19	8.1	11	0.3	1.3	140	12
MAR									
12...	2	21	14	7.0	12	0.3	1.2	108	12
MAY									
14...	15	36	29	10	9	0.3	0.7	194	17
JUL									
24...	0	31	20	8.6	10	0.3	1.1	162	11
SEP									
24...	6	37	25	10	10	0.3	1.7	189	16

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
30...	14	0.1	18	250	0.34	1.7	0.80	0.02	0.03
FEB									
14...	12	0.1	22	200	0.28	10	1.60	0.06	0.09
26...	8.6	<0.1	23	180	0.25	35	1.40	0.06	0.05
MAR									
12...	6.3	0.1	19	150	0.2	102	0.60	0.06	0.05
MAY									
14...	14	0.1	26	250	0.34	2.7	2.30	0.02	0.03
JUL									
24...	7.7	0.1	21	200	0.27	12	0.20	0.04	0.05
SEP									
24...	9.2	0.1	21	230	0.32	6.2	0.30	0.05	0.02

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
JAN 1986												
30...		0.48	0.37	0.5	0.4	1.3	0.05	0.02	160	19		
FEB												
14...		1.0	0.91	1.1	1.0	2.7	0.16	0.05	100	77		
26...		0.34	0.45	0.4	0.5	1.8	0.07	0.02	130	73		
MAR												
12...		0.24	0.35	0.3	0.4	0.9	0.06	0.02	90	130		
MAY												
14...		0.58	0.27	0.6	0.3	2.9	0.02	0.02	140	61		
JUL												
24...		0.36	0.25	0.4	0.3	0.6	0.04	0.01	140	21		
SEP												
24...		0.45	0.38	0.5	0.4	0.8	0.05	0.01	170	10		
				ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
FEB 1986												
14...		1400	50	<1	--	1	--	<10	--	--	3	--
26...		0930	30	<1	--	<1	--	<10	--	--	1	--
JUL												
24...		1115	<10	<1	4	<1	1	<10	220	50	2	50
				LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 1986												
14...		7	--	10	--	<0.1	--	<100	--	<10	--	--
26...		<1	--	10	--	<0.1	--	<100	--	20	--	--
JUL												
24...		<5	10	120	840	<0.1	0.05	3	<1	--	--	70

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	TIME	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM. FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, (COLS. PER 100 ML)
FEB 1986					
04...A	1032	11.0	1200	260	420
11...A	1010	10.0	1000	85	120
18...A	1055	14.0	4325	1100	2200
25...A	1015	14.5	2100	230	290
MAR					
04...A	1050	14.5	1000	100	330
JUL					
22...A	1030	17.0	340	270	210
29...A	0940	16.0	1500	480	130
AUG					
05...A	0940	17.0	930	320	130
12...A	0925	25.0	830	400	220
19...A	0945	27.0	1600	670	160

< Actual value is known to be less than the value shown.
 A Bacteria sample collected and analyzed by Santa Clara
 Valley Water District.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986									
24...	1115	23	17.0	1	2	5	15	48	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153555 LLAGAS CREEK AT SAN MARTIN, CA

LOCATION.--Lat 37°05'13", long 121°36'15", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, at bridge on San Martin Avenue, 0.3 mi east of San Martin.
DRAINAGE AREA.--28.2 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm. Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CACO3)
JAN 1986										
30...	1145	4.0	422	8.20	12.0	755	5.9	11.8	111	210
FEB										
14...	1215	37	236	8.00	13.0	750	61	10.1	97	110
26...	0815	88	340	8.00	13.0	755	50	9.0	86	170
MAR										
12...	1045	263	249	8.00	14.0	755	65	9.6	94	110
MAY										
14...	1030	3.6	477	8.30	19.0	755	3.2	9.0	98	230
JUL										
24...	0945	5.2	314	8.20	18.0	760	2.4	9.6	102	160
SEP										
24...	1130	7.7	374	8.00	18.0	750	1.8	5.3	57	190

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986									
30...	25	36	29	13	12	0.4	1.7	184	18
FEB									
14...	16	18	15	8.1	14	0.3	1.9	91*	13
26...	17	31	22	9.3	11	0.3	1.4	151	18
MAR									
12...	6	21	15	7.0	12	0.3	1.3	108	12
MAY									
14...	18	42	30	13	11	0.4	1.1	210	23
JUL									
24...	0	31	21	8.8	10	0.3	1.0	165	12
SEP									
24...	6	36	25	11	11	0.4	1.6	187	16

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
30...	18	0.1	16	240	0.33	2.6	1.20	0.07	0.07
FEB									
14...	9.4	<0.1	17	140	0.19	14	1.50	0.10	0.06
26...	10	<0.1	23	210	0.28	49	2.20	0.06	0.05
MAR									
12...	6.9	0.1	19	150	0.2	105	0.80	0.05	0.05
MAY									
14...	18	0.1	23	280	0.38	2.7	2.50	0.03	0.03
JUL									
24...	8.1	0.2	21	200	0.27	2.8	0.20	0.02	0.04
SEP									
24...	10	0.1	20	230	0.32	4.8	0.10	0.05	0.05

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	
JAN 1986											
	30...	0.53	0.53	0.6	0.6	1.8	0.03	0.02	140	33	
FEB											
	14...	1.1	1.4	1.2	1.5	2.7	0.18	0.10	80	190	
	26...	0.34	0.25	0.4	0.3	2.6	0.05	0.02	120	44	
MAR											
	12...	0.35	0.45	0.4	0.5	1.2	0.06	0.03	100	160	
MAY											
	14...	0.67	0.27	0.7	0.3	3.2	0.03	<0.01	130	4	
JUL											
	24...	0.48	0.36	0.5	0.4	0.7	0.03	0.01	140	12	
SEP											
	24...	0.55	0.25	0.6	0.3	0.7	3.00	0.01	170	11	
DATE		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
FEB 1986											
	14...	150	<1	--	<1	--	<10	--	--	5	--
	26...	20	<1	--	<1	--	<10	--	--	1	--
JUL											
	24...	<10	<1	5	<1	<1	<10	200	70	3	50
DATE		LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 1986											
	14...	<1	--	9	--	<0.1	--	<100	--	20	--
	26...	<1	--	20	--	<0.1	--	<100	--	10	--
JUL											
	24...	<5	50	11	620	<0.1	0.08	4	<1	--	60
DATE		TEMPER- ATURE (DEG C)		COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)		COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)		STREP- TOCOCOCCI FECAL, (COLS. PER 100 ML)			
FEB 1986											
	04...A	1020	11.0	500	80	410					
	11...A	1000	9.0	2000	10	75					
	18...A	1025	14.0	9250	1200	1900					
	25...A	1000	14.0	4000	230	750					
MAR											
	04...A	1035	16.0	750	70	570					
JUL											
	22...A	1015	19.0	500	470	85					
	29...A	0925	19.0	800	830	70					
AUG											
	05...A	0925	19.5	750	800	90					
	12...A	0910	27.0	2500	470	73					
	19...A	0935	27.0	9200	4700	210					

< Actual value is known to be less then the value shown.

A Bacteria samples collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN

11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986 24...	0945	5.2	18.0	4	5	10	35	58	100

[illegible]

ANALYSIS OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11166900 ALAMITOS CREEK NEAR NEW ALMADEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
	DATE											
	JAN 1986											
	29...	0.86	0.5	1.0	0.6	2.5	0.17	0.06	120	31		
	FEB											
	13...	1.3	1.0	1.4	1.1	3.4	0.22	0.06	170	130		
	25...	0.48	0.37	0.5	0.4	1.7	0.04	0.02	80	21		
	MAR											
	11...	0.43	0.38	0.5	0.4	1.1	0.07	0.03	80	68		
	MAY											
	13...	0.29	0.28	0.3	0.3	1.2	0.03	0.02	140	<3		
	JUL											
	22...	0.28	0.18	0.3	0.2	0.9	0.02	<0.01	170	<3		
	SEP											
	23...	0.33	0.27	0.4	0.3	1.0	0.05	0.02	120	5		
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 1986												
13...	1445	60	1	<1	<10		4	3	5	<0.1	<100	20
25...	1015	10	1	<1	<10		<1	3	<10	<0.1	<100	<10
JUL												
22...	1300	<10	2	<1	<10		2	<5	1	<0.1	5	--
	DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)		
JAN 1986												
29...	1430	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	<0.010	0.33		
	DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)		
JAN 1986												
29...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	0.17	<0.01		
	DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)		
JAN 1986												
29...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.12	<0.01	<0.01			

< Actual value is known to be less then the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167500 GUADALUPE CREEK AT GUADALUPE, CA

LOCATION.--Lat 37°13'02", long 121°54'35", in SW 1/4 sec.19, T.8 S, R.1 E., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.1 mi downstream from small left-bank tributary, 0.5 mi northwest of Guadalupe.

DRAINAGE AREA.--12.8 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1980 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm. Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
JAN 1986										
29...	1615	1.2	605	8.40	11.0	755	2.0	10.8	99	15
FEB										
13...	1330	14	341	8.30	11.0	755	22	10.4	95	28
25...	1330	27	301	8.20	13.0	760	44	10.2	97	22
MAR										
11...	1415	145	208	8.20	13.5	760	41	10.1	97	21
MAY										
13...	1100	16	270	8.30	13.0	755	2.5	10.3	99	10
JUL										
22...	1130	14	343	8.40	19.0	755	1.8	9.4	102	22
SEP										
23...	1045	2.0	464	8.40*	15.0	755	0.30	9.6	96	12

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986										
29...	300	45	55	39	23	14	0.6	1.7	253	65
FEB										
13...	170	18	32	21	12	13	0.4	1.1	148	17
25...	140	14	27	18	10	13	0.4	1.3	128	18
MAR										
11...	97	5	19	12	7.0	13	0.3	1.3	92	12
MAY										
13...	130	4	24	16	9.1	13	0.4	1.1	122	18
JUL										
22...	160	0	30	20	10	12	0.4	1.1	166	18
SEP										
23...	240	12	43	31	17	14	0.5	1.6	223 *	34

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
29...	17	0.2	15	370	0.5	1.2	0.10	0.04	0.02
FEB									
13...	11	0.1	17	200	0.27	7.6	0.50	0.04	0.04
25...	11	0.1	18	180	0.25	13	0.40	0.05	0.03
MAR									
11...	6.6	<0.1	16	130	0.18	50	0.30	0.05	0.03
MAY									
13...	4.6	<0.1	16	160	0.22	7.1	0.20	<0.01	0.02
JUL									
22...	8.1	0.1	13	200	0.27	7.4	<0.10	0.01	0.02
SEP									
23...	11	0.1	13	280	0.39	1.5	<0.10	0.05	0.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
JAN 1986												
29...		0.26	0.18	0.3	0.2	0.4	0.03	0.03	220	12		
FEB												
13...		0.56	0.46	0.6	0.5	1.1	0.05	0.03	70	96		
25...		0.35	0.37	0.4	0.4	0.8	0.05	0.01	80	62		
MAR												
11...		0.35	0.27	0.4	0.3	0.7	0.07	0.02	50	140		
MAY												
13...		--	0.18	0.3	0.2	0.5	0.03	0.01	110	13		
JUL												
22...		0.29	0.28	0.3	0.3	--	0.02	<0.01	170	4		
SEP												
23...		0.25	--	0.3	<0.2	--	0.02	0.01	290	4		
DATE		TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, FM BOT- TOM MA- TERIAL (UG/G AS CU)
FEB 1986												
13...		1330	60	1	--	<1	--	<10	--	--	1	--
25...		1330	40	<1	--	<1	--	<10	--	--	2	--
JUL												
22...		1130	<10	1	14	<1	<1	<10	350	50	1	40
DATE		TIME	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 1986												
13...			1	--	13	--	<0.1	--	<100	--	17	--
25...			1	--	<10	--	<0.1	--	<100	--	<10	--
JUL												
22...			<5	10	13	690	<0.1	16	15	<1	--	60
DATE		TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCCI FECAL, (COLS. PER 100 ML)					
FEB 1986												
04...A		1125	4.9	11.0	1200	190	250					
11...A		1100	1.6	9.0	670	120	200					
18...A		1135	2000	14.0	1425	240	350					
25...A		1100	27	14.0	500	60	110					
MAR												
04...A		1145	22	14.5	350	40	65					
JUL												
22...A		1125	14	20.0	950	180	170					
29...A		1025	6.1	18.0	850	330	170					
AUG												
05...A		1045	3.9	20.0	430	390	160					
12...A		1015	3.9	25.0	560	260	160					
19...A		1040	3.1	24.5	2500	430	290					

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
JAN 1986 29...	1615	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	0.010	<0.01	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986 29...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986 29...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less then the value shown.

* Laboratory value

A Bacteria samples collected and analyzed by Santa Clara Valley Water District.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986 22...	1130	14	19.0	1	2	7	36	75	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA

LOCATION.--Lat 37°14'51", long 121°52'08", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, at south city limits of San Jose, 0.2 mi downstream from confluence at Alamitos and Guadalupe Creeks.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm. Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
JAN 1986										
29...	1330	3.6	630	8.50	12.0	755	1.7	11.6	109	14
FEB										
13...	1615	74	450	8.10	13.0	760	39	10.0	95	33
25...	0830	247	--	8.00	--	760	40	10.2	--	28
MAR										
11...	1630	512	278	8.20	14.0	760	61	10.3	100	22
MAY										
13...	1430	15	514	8.40	21.5	760	5.5	10.6	121	24
JUL										
22...	1415	7.9	517	8.60	25.5	760	1.0	8.3	102	22
SEP										
23...	1345	13	456	8.20	20.0	755	1.5	9.3	103	18

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986										
29...	300	63	45	46	27	16	0.7	1.7	239	54
FEB										
13...	210	41	33	31	18	16	0.6	2.3	169	--
25...	170	33	27	24	12	13	0.4	1.4	133	18
MAR										
11...	130	11	23	18	9.2	13	0.4	1.7	121	14
MAY										
13...	240	33	37	36	19	15	0.5	1.2	208	38
JUL										
22...	230	19	36	35	19	15	0.6	1.3	215	37
SEP										
23...	220	25	35	31	19	16	0.6	1.6	190	34

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
29...	36	0.1	10	370	0.5	3.6	1.60	0.07	0.05
FEB									
13...	--	0.1	13	--	--	--	1.40	0.09	0.11
25...	17	0.1	18	200	0.27	131	1.60	0.04	0.04
MAR									
11...	9.6	<0.1	17	170	0.22	229	0.60	0.07	0.03
MAY									
13...	27	0.1	17	300	0.41	13	1.30	0.01	0.02
JUL									
22...	25	0.2	16	300	0.41	6.4	0.70	0.03	0.02
SEP									
23...	22	0.2	16	270	0.37	9.5	0.60	0.06	0.05

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
	DATE											
	JAN 1986											
	29...	0.63	0.45	0.7	0.5	2.3	0.03	0.01	140	8		
	FEB											
	13...	0.71	0.69	0.8	0.8	2.2	0.14	0.06	100	63		
	25...	0.36	0.36	0.4	0.4	2.0	0.06	0.03	80	43		
	MAR											
	11...	0.43	0.37	0.5	0.4	1.1	0.11	0.04	70	96		
	MAY											
	13...	0.39	0.28	0.4	0.3	1.7	0.03	<0.01	130	<3		
	JUL											
	22...	0.37	0.28	0.4	0.3	1.1	0.02	<0.01	130	7		
	SEP											
	23...	0.34	0.25	0.4	0.3	1.0	0.02	<0.01	130	5		
		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
FEB 1986												
	13...	1615	30	1	--	<1	--	<10	--	1	--	
	25...	0830	20	1	--	<1	--	<10	--	1	--	
JUL												
	22...	1415	<10	2	17	<1	<1	<10	630	50	3	40
		LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/L AS PB)	LEAD, DIS- SOLVED (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	
FEB 1986												
	13...	2	--	17	--	<0.1	--	<100	--	14	--	
	25...	3	--	<10	--	<0.1	--	<100	--	<10	--	
JUL												
	22...	<5	10	4	590	<0.1	25	6	<1	--	60	
						</						

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
JAN 1986										
29...	1330	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.11	
FEB										
13...	1615	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.10	
25...	0800	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01	
JUL										
22...	1415	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.02	
SEP										
23...	1345	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.01	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986										
29...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
FEB										
13...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.01	<0.01
25...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
JUL										
22...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
SEP										
23...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986										
29...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.04	<0.01	<0.01
FEB										
13...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.17	<0.01	<0.01
25...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	<0.01	<0.01	<0.01
JUL										
22...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.02	<0.01	<0.01
SEP										
23...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

A Bacteria samples collected and analyzed by Santa Clara Valley Water District.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986									
22...	1415	7.9	25.5	4	7	15	29	64	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE CREEK BASIN

11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA

LOCATION.--Lat 37°10'02", long 121°58'43", in SE 1/4 NW 1/4 sec.9, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, 400 ft upstream from inflow to Lexington Reservoir, 0.3 mi north of Chemeketa Park, and 4.1 mi south of Los Gatos.

DRAINAGE AREA.--19.1 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1978-80, 1985 to current year.

BIOLOGICAL DATA: Water year 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
DEC 1985										
18...	1045	0.73	650	8.30	5.0	755	1.0	12.2	97	<10
JAN 1986										
27...	1300	1.3	629	8.40	8.0	750	1.0	11.9	102	--
MAR										
04...	1215	34	280	8.20	13.5	750	--	10.4	101	--
APR										
15...	1145	14	347	8.30	12.0	745	2.4	10.3	98	--
MAY										
12...	1145	5.1	416	8.20	13.0	750	40	9.8	95	--
JUN										
10...	1145	1.6	510	8.20	17.0	745	1.1	10.0	106	--
JUL										
21...	1615	0.80	510	8.30	22.0	745	1.2	9.0	106	--
AUG										
20...	1430	1.5	435	8.30	19.5	750	0.70	9.2	102	--

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC 1985										
18...	300	99	75	28	24	15	0.6	1.7	204	130
JAN 1986										
27...	280	99	71	26	26	16	0.7	1.9	185	140
MAR										
04...	120	15	29	12	11	16	0.4	1.3	107	22
APR										
15...	150	24	38	14	13	16	0.5	1.3	129	45
MAY										
12...	190	37	47	17	17	16	0.6	1.5	150	62
JUN										
10...	210	34	53	19	19	16	0.6	1.9	177	67
JUL										
21...	220	27	56	20	19	16	0.6	1.8	195	71
AUG										
20...	200	19	49	18	16	15	0.5	1.7	177	46

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE CREEK BASIN

11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DEC 1985										
18...		13	0.2	16	410	0.56	0.81	0.20	0.04	0.03
JAN 1986										
27...		16	0.2	17	410	0.56	1.4	0.30	0.03	0.03
MAR										
04...		7.4	0.1	18	170	0.22	15	0.50	0.02	0.02
APR										
15...		11	0.2	18	220	0.3	8.5	0.40	0.04	0.04
MAY										
12...		14	0.2	19	270	0.36	3.7	0.30	0.01	0.02
JUN										
10...		12	0.3	17	300	0.4	1.3	0.20	0.04	0.04
JUL										
21...		11	0.3	17	310	0.43	0.68	<0.10	0.03	0.03
AUG										
20...		9.5	0.2	17	260	0.36	1.1	<0.10	0.02	0.03
DATE		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 1985										
18...		0.16	0.27	0.2	0.3	0.4	0.04	0.03	80	6
JAN 1986										
27...		0.27	0.17	0.3	0.2	0.6	0.05	0.03	80	8
MAR										
04...		0.28	--	0.3	<0.1	0.8	0.08	0.02	--	42
APR										
15...		0.16	--	0.2	<0.2	0.6	0.04	0.05	50	22
MAY										
12...		0.19	0.18	0.2	0.2	0.5	0.05	0.03	60	10
JUN										
10...		0.16	0.16	0.2	0.2	0.4	0.05	0.03	80	17
JUL										
21...		0.27	0.27	0.3	0.3	--	0.05	0.03	80	5
AUG										
20...		--	--	<0.2	<0.2	--	0.03	0.03	90	11
DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)
JUL 1986										
21...		1615	<10	<1	<1	<10	3	<5	16	<0.1

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168000 LOS GATOS CREEK AT LOS GATOS, CA

LOCATION.--Lat 37°13'03", long 121°59'11", in SE 1/4 sec.20, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, on right bank 0.4 mi upstream from Main Street bridge, 0.7 mi southwest of Los Gatos Post Office, and 1.1 mi downstream from Lexington Dam.

DRAINAGE AREA.--39.1 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1952-66, 1980 to current year.

REMARKS.--Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
DEC 1985										
18...	1315	2.9	664	8.30	8.0	760	3.5	11.6	98	<10
JAN 1986										
29...	0945	4.1	488	8.00	11.0	755	24	10.8	99	33
FEB										
13...	1145	2.0	327	8.20	12.0	755	130	9.2	86	45
24...	1700	181	146	7.90	--	755	350	10.4	--	42
MAR										
04...	1430	113	208	8.00	13.0	755	170	10.2	98	--
11...	1245	324	220	8.20	14.0	755	88	9.6	94	15
APR										
15...	1300	47	244	8.10	13.0	755	53	10.2	98	--
MAY										
13...	1000	30	246	8.10	13.0	755	2.0	10.2	98	15
JUN										
10...	1330	52	252	8.30	15.0	755	1.5	10.8	108	--
JUL										
22...	1000	37	283	8.20	15.0	755	2.0	11.0	110	39
AUG										
20...	1545	58	291	8.00	17.0	755	4.4	10.6	111	--
SEP										
23...	1000	0.20	380	8.10	15.0	755	0.70	10.0	100	12

DATE	HARD- NESS WH WAT (MG/L AS CACO3)	HARD- NESS NONCARB TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC 1985									
18...	320	120	80	29	21	12	0.5	2.9	199
JAN 1986									
29...	230	78	56	21	17	14	0.5	2.5	148
FEB									
13...	150	21	36	15	12	15	0.4	1.6	131
24...	80	14	20	7.4	7.8	17	0.4	1.7	66
MAR									
04...	87	17	21	8.3	8.3	17	0.4	1.7	70
11...	95	16	23	9.2	8.4	16	0.4	1.7	79
APR									
15...	100	12	24	10	8.9	16	0.4	1.4	89
MAY									
13...	110	14	26	10	9.4	16	0.4	1.4	92
JUN									
10...	110	11	27	10	8.9	15	0.4	1.5	98
JUL									
22...	120	10	30	11	9.5	14	0.4	1.4	110
AUG									
20...	120	16	31	11	9.9	15	0.4	1.6	107
SEP									
23...	180	17	44	18	13	13	0.4	1.8	167

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DEC 1985										
18...	160	15	0.2	12	440	0.6	3.4	1.10	0.05	0.05
JAN 1986										
29...	92	9.6	0.2	9.5	300	0.4	3.3	1.00	0.12	0.10
FEB										
13...	26	8.7	0.2	14	190	0.26	1.0	0.80	0.08	0.05
24...	20	6.3	0.2	13	120	0.16	57	0.70	0.16	0.07
MAR										
04...	19	6.6	0.1	14	120	0.16	37	0.70	0.06	0.03
11...	16	6.8	0.1	15	130	0.17	112	0.60	0.08	0.02
APR										
15...	19	7.1	0.1	15	140	0.19	18	0.60	0.04	0.02
MAY										
13...	28	7.4	0.1	16	150	0.21	13	0.50	0.02	0.02
JUN										
10...	28	7.3	0.2	15	160	0.21	22	0.50	0.04	0.01
JUL										
22...	32	7.5	0.2	16	170	0.24	17	0.40	0.01	0.02
AUG										
20...	31	7.5	0.2	16	170	0.23	27	0.40	0.01	0.04
SEP										
23...	37	10	0.2	15	240	0.33	0.13	<0.10	0.06	0.03

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 1985									
18...	0.45	0.45	0.5	0.5	1.6	0.02	0.01	90	8
JAN 1986									
29...	0.68	0.4	0.8	0.5	1.8	0.12	0.03	80	22
FEB									
13...	0.82	0.35	0.9	0.4	1.7	0.08	0.04	70	--
24...	0.74	0.33	0.9	0.4	1.6	0.20	0.02	40	130
MAR									
04...	0.44	0.27	0.5	0.3	1.2	0.17	0.02	40	47
11...	0.32	0.18	0.4	0.2	1.0	0.13	0.02	40	110
APR									
15...	0.26	0.18	0.3	0.2	0.9	0.06	0.03	40	15
MAY									
13...	0.28	0.18	0.3	0.2	0.8	0.05	0.02	50	9
JUN									
10...	0.26	0.19	0.3	0.2	0.8	0.05	0.03	50	37
JUL									
22...	0.39	--	0.4	<0.2	0.8	0.04	<0.01	50	5
AUG									
20...	--	--	<0.2	<0.2	--	0.02	<0.01	40	7
SEP									
23...	--	--	<0.2	<0.2	--	0.02	0.01	70	16

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 1986											
13...	1145	<10	<1	--	<10	--	--	--	<0.1	<100	--
24...	1700	70	<1	<1	<10	1	1	<10	<0.1	<100	20
JUL											
22...	1000	<10	<1	<1	<10	1	<5	3	<0.1	2	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)
FEB 1986						
04...A	1153	6.4	11.0	2400	260	200
11...A	1125	3.2	11.0	30000	14000	220
18...A	1200	86	14.0	1466	160	240
25...A	1125	301	14.0	1300	140	180
MAR						
04...A	1205	113	14.0	210	100	70
JUL						
22...A	1145	37	16.5	500	25	75
29...A	1040	31	16.0	320	30	40
AUG						
05...A	1110	27	16.0	190	26	31
12...A	1035	36	24.0	45	40	35
19...A	1100	34	24.0	250	25	30

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
JAN 1986 29...	0945	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.03	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986 29...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986 29...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.02	<0.01	<0.01

< Actual value is known to be less than the value shown.

A Bacteria samples collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA

LOCATION.--Lat 37°15'07", long 121°57'48", in Rinconada de Los Gatos Grant, Santa Clara County, Hydrologic Unit 18050003, at bridge on Lark Avenue, 1,800 ft downstream from Vasona Dam, and 2 mi northeast of Los Gatos Post Office.

DRAINAGE AREA.--43.3 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm. Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
JAN 1986										
29...	0815	2.7	556	8.00	11.5	755	1.5	8.0	74	36
FEB										
13...	0815	47	443	8.20	11.5	760	20	9.8	90	27
24...	1530	485	156	8.00	13.0	755	400	10.2	98	43
MAR										
11...	1130	649	228	8.20	14.0	755	120	10.1	99	22
MAY										
13...	0830	29	279	8.30	16.0	755	20	8.9	91	26
JUL										
22...	0815	27	299	8.40	20.5	755	2.9	8.5	95	23
SEP										
23...	0845	5.5	365	8.10	18.0	755	1.3	7.1	76	26

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986										
29...	270	84	63	27	21	14	0.6	2.4	185	88
FEB										
13...	210	53	48	21	17	15	0.5	1.9	153	62
24...	86	19	21	8.1	8.2	17	0.4	1.7	67	19
MAR										
11...	97	23	23	9.7	8.6	16	0.4	1.7	74	16
MAY										
13...	130	19	31	12	11	16	0.4	1.6	108	30
JUL										
22...	130	10	31	12	9.8	14	0.4	1.5	117	32
SEP										
23...	160	11	39	14	12	14	0.4	2.0	144	35

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
29...	18	0.2	12	340	0.47	2.5	0.50	0.13	0.12
FEB									
13...	18	0.1	12	270	0.37	35	0.70	0.14	0.15
24...	7.0	0.2	13	120	0.16	155	0.70	0.10	0.05
MAR									
11...	6.9	0.1	15	130	0.17	220	0.60	0.07	0.04
MAY									
13...	9.8	0.1	17	180	0.24	14	0.20	0.05	0.05
JUL									
22...	8.4	0.3	15	180	0.25	13	0.20	0.04	0.04
SEP									
23...	10	0.2	14	210	0.29	3.2	<0.10	0.08	0.05

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)		
JAN 1986												
29...		0.57	0.38	0.7	0.5	1.2	0.05	0.02	80	5		
FEB												
13...		0.56	0.45	0.7	0.6	1.4	0.07	0.06	90	32		
24...		1.0	0.25	1.1	0.3	1.8	0.23	0.02	30	16		
MAR												
11...		0.33	0.26	0.4	0.3	1.0	0.12	0.02	40	110		
MAY												
13...		0.45	0.25	0.5	0.3	0.7	0.06	<0.01	40	4		
JUL												
22...		0.26	0.16	0.3	0.2	0.5	0.01	<0.01	50	11		
SEP												
23...		0.32	--	0.4	<0.2	--	0.05	0.01	60	5		
DATE		TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)
FEB 1986												
13...		0815	10	1	--	<1	--	<10	--	--	1	--
24...		1530	40	<1	--	<1	--	<10	--	--	2	--
JUL												
22...		0815	10	<1	6	<1	<1	<10	390	60	2	50
DATE		TIME	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECov. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECov. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECov. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 1986												
13...			3	--	41	--	<0.1	--	<100	--	51	--
24...			1	--	<10	--	<0.1	--	<100	--	10	--
JUL												
22...			<5	40	21	440	<0.1	0.67	3	<1	--	80
DATE		TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)					
FEB 1986												
04...		0750	32	12.0	4800	280	570					
11...		0745	2.6	11.0	2800	50	50					
18...		0810	294	14.0	25000	1600	3000					
25...		0750	384	13.0	9000	3900	700					
MAR												
04...		0815	180	13.0	8100	1500	190					
JUL												
22...		0750	27	20.5	800	260	110					
29...		0720	26	19.0	500	430	35					
AUG												
05...		0710	28	20.5	350	370	19					
12...		0710	38	28.0	650	390	55					
19...		0725	36	27.0	1400	500	30					

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
JAN 1986										
29...	0915	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.06	
FEB										
13...	0815	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.10	
24...	1515	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01	
JUL										
22...	0815	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01	
SEP										
23...	0845	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986										
29...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
FEB										
13...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
24...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
JUL										
22...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
SEP										
23...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986										
29...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01
FEB										
13...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01
24...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	--	--	--
JUL										
22...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	<0.01	<0.01	<0.01
SEP										
23...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUL 1986									
22...	0815	27	20.5	2	3	7	21	56	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA

LOCATION.--Lat 37°18'45", long 121°54'12", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 100 ft upstream from Lincoln Avenue bridge, 0.6 mi downstream from Dry Creek.

DRAINAGE AREA.--48.4 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1980 to current year.

REMARKS.-- Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	
FEB 1986											
13...		1015	45	420	8.20	12.0	765	19	10.5	97	29
24...		1315	59	160	8.10	13.0	765	500	10.7	101	45
MAR											
11...		1000	551	228	8.20	14.0	760	130	10.7	104	34

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
FEB 1986 13...	1000	<0.10	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.10	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
FEB 1986 13...		<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.01	<0.01
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 1986 13...		<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.03	<0.01	<0.01
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, (COLS. PER 100 ML)				
FEB 1986										
04...	0815	27	11.0	13000	540	600				
18...	0835	339	14.0	17750	1300	4200				
25...	0815	308	13.0	7000	2300	490				
MAR										
04...	0840	44	13.0	7100	410	350				

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA

LOCATION.--Lat 37°09'54", long 121°37'56", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank 500 ft downstream from release at Leroy Anderson Dam, 2.3 mi northeast of Madrone.

DRAINAGE AREA.--195 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1980 to current year.

SEDIMENT DATA: Water year 1985.

REMARKS.--Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CACO3)
JAN 1986										
30...	1000	6.7	554	8.20	11.0	755	20	9.9	91	250
FEB										
14...	1000	6.7	562	8.20	11.0	750	21	10.1	93	250
25...*	1500	0.40	1650	7.80	18.5	755	47	6.0	65	1000
MAR										
12...	0915	20	291	8.20	13.5	755	78	10.1	98	120
MAY										
14...	0915	46	264	8.10	13.0	750	28	10.0	96	99
JUL										
24...	0830	64	253	8.10	13.5	760	20	10.9	105	120
SEP										
24...	1015	60	272	7.70	14.5	745	27	9.8	98	120

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN 1986									
30...	31	53	29	28	19	0.8	2.2	221	62
FEB									
14...	28	52	29	28	19	0.8	2.0	221	65
25...	800	180	140	42	8	0.6	2.4	221	830
MAR									
12...	19	27	13	14	20	0.6	1.8	102	23
MAY									
14...	1	23	10	12	21	0.5	1.7	98	28
JUL									
24...	13	27	12	14	20	0.6	1.7	104	28
SEP									
24...	12	27	12	14	20	0.6	1.8	105	28

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
30...	21	0.2	8.7	340	0.46	6.1	<0.10	0.05	0.07
FEB									
14...	21	0.2	8.1	340	0.46	6.1	0.10	0.15	0.14
25...	21	0.3	22	1400	1.9	1.5	1.20	0.31	0.33
MAR									
12...	9.8	0.2	11	160	0.22	8.8	0.50	0.04	0.02
MAY									
14...	10	0.1	10	150	0.21	19	0.40	0.03	0.02
JUL									
24...	9.2	0.2	12	170	0.23	29	0.50	0.03	0.05
SEP									
24...	9.5	0.1	12	170	0.23	27	0.50	0.02	0.03

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 1986										
30...		0.35	0.33	0.4	0.4	--	0.03	<0.01	130	13
FEB										
14...		0.55	0.36	0.7	0.5	0.8	0.02	<0.01	130	4
25...		0.69	0.47	1.0	0.8	2.2	0.04	0.01	120	8
MAR										
12...		0.26	0.48	0.3	0.5	0.8	0.09	0.02	90	110
MAY										
14...		0.37	0.38	0.4	0.4	0.8	0.04	0.02	80	36
JUL										
24...		0.47	0.35	0.5	0.4	1.0	0.05	0.04	80	11
SEP										
24...		0.58	0.27	0.6	0.3	1.1	0.04	<0.01	80	15

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 1986											
14...	1000	<10	1	1	<10	3	<1	100	<0.1	<100	20
25...	1500	<10	2	<1	<10	<1	2	790	--	<100	10
JUL											
24...	0830	<10	1	<1	<10	7	<5	11	<0.1	5	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)
FEB 1986						
04...A	1003	6.3	11.0	55	18	15
11...A	0940	33	10.0	20	5	5
MAR						
04...A	1005	18	13.0	85	20	80
JUL						
22...A	1000	64	15.0	10	4	6
29...A	0915	64	14.0	40	10	3
AUG						
05...A	0905	64	15.0	23	6	6
12...A	0855	62	21.0	8	2	3
19...A	0920	66	22.0	5	5	9

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
JAN 1986 30...	1000	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	<0.01
DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 1986 30...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986 30...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

A Bacteria samples collected and analyzed by Santa Clara Valley Water District.

** Outlet from reservoir was obstructed and seepage water was sampled.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11171500 COYOTE CREEK NEAR EDENVALE, CA

LOCATION.--Lat 38°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, Santa Clara County, Hydrologic Unit 18050003, at "The Narrows," 1.5 mi northeast of Edenvale, and 7 mi south of San Jose.

DRAINAGE AREA.--229 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1979 to current year.

SEDIMENT DATA: October 1984 to September 1985.

REMARKS.--Streamflow data furnished by Santa Clara Valley Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	HARD- NESS (MG/L AS CaCO ₃)
JAN 1986										
30...	0745	1.8	79	7.70	11.5	755	65	8.0	74	28
FEB										
14...	0745	32	344	8.30	13.5	755	42	8.9	86	150
25...	1330	42	515	8.10	15.0	760	25	10.1	101	230
MAR										
12...	0800	89	475	8.20	13.5	760	25	9.4	91	210
MAY										
14...	0800	5.2	463	8.20	17.5	760	2.1	7.2	76	200
SEP										
24...	0915	2.1	357	7.90	16.5	750	0.50	6.8	71	160

DATE	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CaCO ₃	SULFATE DIS- SOLVED (MG/L AS SO ₄)
JAN 1986									
30...	0	6.9	2.6	4.0	23	0.3	1.5	31	6.8
FEB									
14...	22	29	18	17	20	0.6	1.5	125	31
25...	29	43	29	23	18	0.7	1.9	198	53
MAR									
12...	25	38	28	20	17	0.6	2.7	185	40
MAY									
14...	25	41	24	21	18	0.7	1.4	176	49
SEP									
24...	22	34	19	18	19	0.6	1.7	141	39

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO ₂)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 1986									
30...	2.8	<0.1	2.7	47	0.06	0.23	0.40	0.18	0.15
FEB									
14...	13	0.1	9.6	190	0.26	17	1.80	0.05	0.06
25...	22	0.2	21	310	0.42	35	2.70	0.08	0.07
MAR									
12...	16	0.2	19	280	0.37	66	2.00	0.14	0.10
MAY									
14...	17	0.1	14	270	0.37	3.8	2.00	0.03	0.03
SEP									
24...	12	0.2	10	220	0.3	1.2	1.20	0.03	0.04

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	
JAN 1986											
30...		1.2	0.75	1.4	0.9	1.8	0.22	0.14	40	120	
FEB											
14...		0.55	0.54	0.6	0.6	2.4	0.08	0.03	100	21	
25...		0.72	0.53	0.8	0.6	3.5	0.15	0.11	110	36	
MAR											
12...		0.66	0.7	0.8	0.8	2.8	0.14	0.08	100	65	
MAY											
14...		0.47	0.37	0.5	0.4	2.5	0.01	<0.01	100	7	
SEP											
24...		0.47	0.36	0.5	0.4	1.7	0.03	0.02	100	23	
		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 1986											
14...		30	1	1	<10	1	3	<10	<0.1	<100	20
25...		20	3	<1	<10	1	4	<10	<0.1	<100	10
				STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)			
FEB 1986											
04...A			0940	0.8	11.0	6000	350	500			
18...A			0945	460	15.0	24350	3800	6500			
25...A			0925	44	14.0	2800	400	480			
MAR											
04...A			0945	3.4	16.0	580	150	290			
JUL											
22...A			0930	0.0	*21.0	6000	2000	160			
AUG											
05...A			0840	2.0	21.0	1000	300	140			
12...A			0830	30	28.0	2500	230	68			
19...A			0855	4.8	27.0	1800	950	110			

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN

11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
JAN 1986										
30...	0745	<0.1	<0.10	<0.010	0.2	<0.010	0.010	<0.010	0.41	
FEB										
14...	0745	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.10	
25...	1330	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.02	
SEP										
24...	0915	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.02	
DATE		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	
JAN 1986										
30...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	0.010	1.3	<0.01	
FEB										
14...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.03	<0.01	
25...	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010	<0.01	<0.01	
SEP										
24...	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	
DATE		METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 1986										
30...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.08	<0.01	<0.01	<0.01
FEB										
14...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.03	<0.01	<0.01	<0.01
25...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.01	<0.01	<0.01	<0.01
SEP										
24...	<0.01	<0.01	<0.01	<0.1	<1	<0.01	0.02	<0.01	<0.01	<0.01

< Actual value is known to be less then the value shown.

A Bacteria samples collected by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SAN LORENZO CREEK BASIN

11180940 CULL CREEK TRIBUTARY NO. 4 ABOVE CULL CREEK RESERVOIR

LOCATION.--Lat 37°45'02", long 122°03'21", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004,
on left bank, 50 ft upstream from Cull Canyon Road, and 3.2 mi upstream from Cull Creek Dam.

DRAINAGE AREA.--0.45 mi².

PERIOD OF RECORD.--

SEDIMENT DATA: Water years 1980 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN					
30...	1025	0.35	12.0	270	0.26
30...	1120	0.22	12.0	221	0.13
31...	1100	4.6	11.5	2080	26
31...	1140	3.4	12.0	2000	18
31...	1210	2.5	12.0	1180	8.0
31...	1331	1.6	12.0	398	1.7
31...	1427	3.0	12.0	715	5.8
31...	1530	2.2	12.0	600	3.6
FEB					
14...	1100	1.9	13.5	430	2.2
14...	1115	2.0	13.5	318	1.7
14...	1205	2.5	13.5	425	2.9
14...	1250	3.6	13.5	1450	14
14...	1305	6.6	13.5	5860	104
14...	1315	10	13.5	9830	265
14...	1330	20	13.5	16000	864
14...	1400	28	13.0	27800	2100
14...	1440	18	13.0	19400	943
14...	1510	10	13.0	12200	329
14...	1545	9.2	13.0	8320	207

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GERBODE VALLEY CREEK BASIN

11460110 GERBODE VALLEY CREEK NEAR SAUSALITO, CA

LOCATION.--Lat 37°49'59", long 122°31'18", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, at upstream side of foot bridge, 400 ft upstream from mouth, 1.8 mi southwest of Sausalito.

DRAINAGE AREA.--3.29 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
JAN 29...	1115	6.9	157	6.70	11.0	755	9.7	89	1200	2300	42	11	
JUN 24...	1240	0.49	204	7.20	14.0	765	8.6	83	310	350	63	0	
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 29...	7.6	5.5	16	44	1	1.8	38	31	33	13	24	<0.10	
JUN 24...	11	8.6	18	38	1	0.60	80	66	66	7.2	20	0.20	
DATE		SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 29...	14	--	100	0.14	0.320	0.030	1	30	<10	10	20	300	
JUN 24...	17	130	120	0.18	<0.100	<0.010	2	30	<10	<10	<10	350	
DATE		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATR- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 29...	<100	<0.10	180	--	--	--	<0.10	<0.10	--	<0.10	--	--	--
JUN 24...	<100	<0.10	20	<1	<1.0	<0.1	--	--	2.0	--	0.3	0.3	

See footnote at end of table.

GERBODE VALLEY CREEK BASIN

11460110 GERBODE VALLEY CREEK NEAR SAUSALITO, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 29...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 24...	<0.1	--	0.2	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 29...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.10	<0.1	--	<0.01
JUN 24...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 29...	1115	6.9	11.0	162	3.0	93

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GERBODE VALLEY CREEK BASIN

11460120 RODEO LAGOON AT FORT CRONKHITE, NEAR SAUSALITO, CA

LOCATION.--Lat 37°49'52", long 122°32'07" in Sausalito Grant, Marin County, Hydrologic Unit 18050005, at foot-bridge 600 ft upstream from mouth, 2.3 mi southwest of Sausalito.

DRAINAGE AREA.--4.07 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SPE-			METRIC		BARO-	FORM,	OXYGEN,	COLI-	STREP-	HARD-			
			CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	DIS- PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	TOCOCCHI SOLVED (PER- CENT SATUR- ATION)	FECAL, 0.7 UM-MF (COLS./ 100 ML)	NESS KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)
JAN 29...	1410		10400	7.40	12.0	755	9.9	96	510	720	1400	1300	110
JUN 24...	0950		7530	9.10	17.0	765	7.2	76	K10	K15	740	640	50
DATE		MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 29...	270		2400	78	28	81	62	--	51	53	660	4500	0.30
JUN 24...	150		1300	78	21	50	69	25	98	101	290	2400	0.30
DATE		SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 29...	11		8060	8100	11.0	0.310	0.010	<1	1000	20	<10	20	40
JUN 24...	9.4		4300	4300	5.8	<0.100	0.040	2	600	10	10	10	20
DATE		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATRA- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 29...	<100		<0.10	40	--	--	--	<0.10	<0.10	--	<0.10	--	--
JUN 24...	<100		0.20	30	<1	<1.0	<0.1	--	--	<1.0	--	0.3	0.3

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GERBODE VALLEY CREEK BASIN

11460120 RODEO LAGOON AT FORT CRONKHITE, NEAR SAUSALITO, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 29...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 24...	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 29...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.10	<0.1	--	<0.01
JUN 24...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

TENNESSEE VALLEY CREEK BASIN

11460130 TENNESSEE VALLEY CREEK NEAR TAMALPAIS VALLEY, CA

LOCATION.--Lat 37°50'52", long 122°32'37", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, at downstream side foot bridge, 10 ft downstream from right bank tributary, and 1.6 mi south of Tamalpais Valley.

DRAINAGE AREA.--1.91 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS WH WAT TOT FLD MG/L AS CACO3
JAN 30...	1040	13	170	6.80	12.0	755	10.5	98	K540	8700	44	12
JUN 25...	0945	0.19	188	7.40	14.0	765	9.0	87	280	250	49	0
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	BICAR- BONATE T-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LITY WH WAT I TOTAL FIELD MG/L AS CACO3	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 30...	7.2	6.3	17	45	1	1.6	13	39	32	33	23	<0.10
JUN 25...	8.4	6.7	20	46	1	1.2	7.5	65	53	53	26	<0.10
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 30...	12	111	100	0.15	0.540	0.030	1	30	<10	20	20	250
JUN 25...	15	111	120	0.15	<0.100	0.010	2	40	<10	<10	<10	210
DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 30...	<100	<0.10	40	--	--	--	<0.10	<0.10	--	<0.10	--	--
JUN 25...	<100	<0.10	50	<1	<1.0	<0.1	--	--	<1.0	--	0.1	0.1

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

TENNESSEE VALLEY CREEK BASIN

11460130 TENNESSEE VALLEY CREEK NEAR TAMALPAIS VALLEY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- ATOM MA- TERIAL (UG/KG)	DI- ZINON, TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 30...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 25...	0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 30...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.1	<0.10	--	<0.01
JUN 25...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 30...	1040	13	12.0	103	3.6	89

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

11460140 REDWOOD CREEK BELOW MUIR WOODS NEAR MILL VALLEY, CA

LOCATION.--Lat 37°53'22", long 122°33'58", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, on upstream side of Frank Valley Road bridge, 200 ft upstream from small left bank tributary, and 1.7 mi southwest of Mill Valley Post Office.

DRAINAGE AREA.--4.11 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	
DATE	TIME												
JAN 31...	1330	51	136	7.00	12.0	755	10.4	97	77	82	53	1	
JUN 26...	1015	0.77	212	7.30	14.0	760	9.8	95	K290	31	86	7	
JUL 07...	1215	--	--	--	--	--	--	--	--	--	--	--	
		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 31...	7.6	8.2	8.0	25	0.5	0.70	63	52	52	12	9.6	<0.10	
JUN 26...	13	13	12	23	0.6	0.90	96	79	78	12	10	<0.10	
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--	
		SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 31...	16	80	93	0.11	<0.100	0.010	<1	20	<10	20	10	67	
JUN 26...	17	128	130	0.17	<0.100	0.010	2	30	<10	<10	<10	14	
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--	
		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATRA- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 31...	<100	<0.10	50	--	--	--	<0.10	<0.10	--	<0.10	--	--	
JUN 26...	<100	0.10	<10	--	--	--	--	--	--	--	--	--	
JUL 07...	--	--	--	<1	<1.0	<0.1	--	--	<1.0	--	<0.1	<0.1	

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

11460140 REDWOOD CREEK BELOW MUIR WOODS NEAR MILL VALLEY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 31...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 31...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.10	<0.1	--	<0.01
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 31...	1330	51	12.0	25	3.4	64

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

11460152 REDWOOD CREEK AT MUIR BEACH, NEAR TAMALPAIS VALLEY, CA

LOCATION.--Lat 37°51'47", long 122°34'27", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, on downstream side bridge of beach access road, 1,000 ft upstream from Big Lagoon, and 1.7 mi southwest of Tamalpais Valley.

DRAINAGE AREA.--7.29 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	
JAN 31...	1015	86	155	7.20	12.0	755	10.2	96	K870	410	53	5	
JUN 26...	1330	0.66	226	7.40	14.0	765	8.8	85	110	75	88	9	
		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 31...	8.7	7.7	11	30	0.7	0.90	59	48	49	10	14	<0.10	
JUN 26...	14	13	15	27	0.7	0.80	96	79	79	13	16	<0.10	
		SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 31...	14	92	95	0.13	0.190	0.010	1	20	<10	30	20	86	
JUN 26...	15	134	130	0.18	<0.100	0.010	2	30	<10	<10	<10	30	
		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATRA- ZINE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 31...	<100	<0.10	50	--	--	--	<0.10	<0.10	--	<0.10	--	--	
JUN 26...	<100	<0.10	<10	<1	<1.0	<0.1	--	--	<1.0	--	<0.1	0.1	

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

WOOD CREEK AT MUIR BEACH, NEAR TAMALPAIS VALLEY, CA--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOT- TOM MA- BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, METHYL TOT. IN PARA- BOTTOM THION, MATL. TOTAL (UG/KG) (UG/L)
JAN 31...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	-- <0.01
JUN 26...	0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1 --

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 31...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.1	<0.10	--	<0.01
JUN 26...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 31...	1015	86	12.0	129	30	78

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

11460154 GREEN GULCH AT MUIR BEACH, NEAR TAMALPAIS VALLEY, CA

LOCATION.--Lat 37°51'47", long 122°34'13", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, on upstream side of bridge, 1.7 mi southwest of Tamalpais Valley.

DRAINAGE AREA.--1.15 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	
JAN 30...	1345	9.9	202	7.20	12.5	755	10.1	96	370	390	61	13	
JUN 25...	1400	0.01	463	7.40	15.5	765	7.4	74	K13	150	160	3	
JUL 07...	1235	--	--	--	--	--	--	--	--	--	--	--	
DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 30...	12	7.5	17	37	1	1.0	59	48	49	16	22	<0.10	
JUN 25...	32	20	39	34	1	1.4	193	159	160	26	42	0.10	
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--	
DATE	TIME	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 30...	12	134	120	0.18	1.00	<0.010	<1	40	<10	10	10	290	
JUN 25...	13	266	270	0.36	<0.100	0.020	2	90	<10	<10	<10	61	
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--	
DATE	TIME	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 30...	<100	--	130	--	--	--	<0.10	<0.10	--	<0.10	--	--	
JUN 25...	<100	<0.10	10	--	--	--	--	--	--	--	--	--	
JUL 07...	--	--	--	<1	<1.0	<0.1	--	--	1.0	--	<0.1	0.1	

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

REDWOOD CREEK BASIN

11460154 GREEN GULCH AT MUIR BEACH, NEAR TAMALPAIS VALLEY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 30...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 30...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.10	<0.1	--	<0.01
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 30...	1345	9.9	12.5	32	0.86	91

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WEBB CREEK BASIN

11460156 WEBB CREEK NEAR STINSON BEACH, CA

LOCATION.--Lat 37°53'13", long 122°37'31", in Sausalito Grant, Marin County, Hydrologic Unit 18050005 at upstream side of Highway 1 culvert, 900 ft upstream from mouth, and 0.8 mi southeast of Stinson Beach.

DRAINAGE AREA.--1.12 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS WH WAT TOT FLD MG/L AS CACO3
JAN													
31...	1545	15	151	7.40	12.5	745	7.5	72	K120	88	50	6	
JUN													
27...	0950	0.16	330	7.60	13.0	755	11.4	109	K10	170	130	13	
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN													
31...	9.4	6.5	11	32	0.7	0.70	54	44	47	11	13	<0.10	
JUN													
27...	26	15	21	26	0.8	0.90	139	114	115	19	26	0.10	
DATE		SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
JAN													
31...	14	82	92	0.11	0.370	0.010	1	10	<10	20	10	36	
JUN													
27...	15	196	190	0.27	0.240	0.020	3	20	<10	<10	<10	6	
DATE		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL (UG/L)	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN													
31...	<100	<0.10	80	--	--	--	<0.10	<0.10	--	<0.10	--	--	--
JUN													
27...	<100	<0.10	<10	<1	<1.0	<0.1	--	--	<1.0	--	<0.1	<0.1	

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WEBB CREEK BASIN

11460156 WEBB CREEK NEAR STINSON BEACH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 31...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 27...	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 31...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.1	<0.10	--	<0.01
JUN 27...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 31...	1545	15	12.5	53	2.1	81

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTAIL-RECORD STATIONS

TABLE ROCK CREEK BASIN

11460158 TABLE ROCK CREEK AT STINSON BEACH, CA

LOCATION.--Lat 37°53'55", long 122°38'11", in Sausalito Grant, Marin County, Hydrologic Unit 18050005, at upstream side of Highway 1 bridge, adjacent to Stinson Beach Fire House.

DRAINAGE AREA.--1.34 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: October 1985 to September 1986.

SEDIMENT DATA: October 1985 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3)	
JAN 30...	1600	6.8	182	7.40	13.0	755	10.1	97	K50	180	58	2	
JUN 27...	1300	0.11	320	8.40	14.5	765	11.8	115	320	880	110	13	
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 30...	10	8.1	14	34	0.8	1.2	68	--	56	57	11	13	
JUN 27...	20	15	23	31	1	1.1	72	24	99	99	19	29	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JAN 30...	<0.10	18	126	110	0.17	0.710	0.040	7	30	<10	<10	20	
JUN 27...	0.10	19	189	210	0.26	0.260	0.020	14	20	<10	<10	<10	
DATE		IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AME- TRYNE TOTAL	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	
JAN 30...	140	<100	<0.10	50	--	--	--	<0.10	<0.10	--	<0.10	--	
JUN 27...	21	<100	<0.10	10	10	<1.0	<0.1	--	--	1.0	--	0.2	

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTAIL-RECORD STATIONS

TABLE ROCK CREEK BASIN

11460158 TABLE ROCK CREEK AT STINSON BEACH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
JAN 30...	--	<0.01	--	--	--	<0.01	--	--	--	<0.01	--	<0.01
JUN 27...	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1	--	<0.1	--

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
JAN 30...	<0.01	--	<0.01	--	<0.1	<0.1	<0.10	<0.10	<0.1	--	<0.01
JUN 27...	--	<0.1	--	<1.00	--	--	--	--	--	<10	--

K Results based on colony count outside the acceptable range (non-ideal colony count) .
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 30...	1600	6.8	13.0	16	0.29

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

KLAMATH RIVER BASIN

11525550 GRASS VALLEY CREEK NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°36'52", long 122°44'43"; in NW 1/4 SW 1/4, sec.23, T.32 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank, 0.8 mi downstream from an unnamed perennial tributary, 7.1 mi southeast of Lewiston, and 10.6 mi east of Douglas City.

DRAINAGE AREA.--7.93 mi².

PERIOD OF RECORD.--Water years 1984 to current year.

REMARKS.--Record is collected for hydrologic and sediment transport correlation studies with Grass Valley Creek at Fawn Lodge near Lewiston.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT											
04...	0910	5.2	9.0	2	0.03	--	--	--	--	--	--
NOV											
04...	0845	5.8	6.0	0	0.0	--	--	--	--	--	--
JAN											
03...	0900	8.6	4.5	10	0.23	--	--	--	--	--	--
18...	0905	36	6.0	6	0.58	--	--	--	--	--	--
30...	1305	72	6.5	26	5.1	58	69	88	100	--	--
FEB											
01...	1215	142	6.5	63	24	--	--	--	--	--	--
11...	0845	50	5.0	7	0.95	--	--	--	--	--	--
18...	0920	285	6.0	576	443	13	20	37	64	89	97
MAR											
05...	0900	64	6.0	12	2.1	--	--	--	--	--	--
APR											
04...	0905	56	5.0	5	0.76	--	--	--	--	--	--
MAY											
07...	0835	30	4.5	2	0.16	--	--	--	--	--	--
JUL											
09...	0910	9.5	11.5	1	0.03	--	--	--	--	--	--
AUG											
06...	1105	6.1	14.0	2	0.03	--	--	--	--	--	--
SEP											
05...	1215	5.5	15.0	2	0.03	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV							
04...	0850	6.0	1	5.8	2	5	10
04...	0855	6.0	1	5.8	1	4	10
04...	0900	6.0	1	5.8	2	6	13
JAN							
18...	0930	6.0	1	36	--	--	3
18...	0935	6.0	1	36	--	--	1
18...	0940	6.0	1	36	--	--	1
18...	0945	6.0	1	36	--	1	6
18...	0950	6.0	1	36	--	1	6
FEB							
11...	0830	5.0	1	50	--	--	2
11...	0835	5.0	1	50	--	1	4
11...	0840	5.0	1	50	--	--	2
MAR							
05...	0920	6.0	1	64	--	--	--
05...	0925	6.0	1	64	--	--	--
05...	0930	6.0	1	64	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

KLAMATH RIVER BASIN

11525550 GRASS VALLEY CREEK NEAR FRENCH GULCH, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV						
04...	22	66	97	100	--	--
04...	23	45	80	99	100	--
04...	22	38	77	97	100	--
JAN						
18...	20	42	69	92	100	--
18...	6	14	29	70	97	100
18...	4	9	21	67	96	100
18...	19	42	74	97	100	--
18...	18	33	52	86	100	--
FEB						
11...	11	21	36	76	97	100
11...	10	20	35	65	86	100
11...	12	47	84	97	100	--
MAR						
05...	2	11	33	75	98	100
05...	2	12	44	87	99	100
05...	3	19	60	92	100	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN							
30...	1310	6.5	15	72	22.0	6.9	3
FEB							
11...	0855	5.0	17	50	25.0	9.8	1
MAR							
05...	0915	6.0	19	64	25.0	3.1	--
MAY							
07...	0845	4.5	6	9.5	22.0	1.8	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN						
30...	20	43	74	97	100	--
FEB						
11...	5	24	54	85	96	100
MAR						
05...	4	17	53	93	100	--
MAY						
07...	7	46	87	99	100	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

KLAMATH RIVER BASIN

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA

LOCATION.--Lat 40°39'45", long 122°47'57", in NE 1/4 NW 1/4, sec.5, T.32 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on left bank, 0.2 mi upstream from the confluence with Grass Valley Creek, 0.9 mi west of Buckhorn Station, and 3.1 mi south of Lewiston on State Highway 299.

DRAINAGE AREA.--10.69 mi².

PERIOD OF RECORD.--Water years 1984 to current year.

REMARKS.--Record is collected for hydrologic and sediment transport correlation studies with Grass Valley Creek at Fawn Lodge near Lewiston.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
04...	1000	1.8	9.5	2	0.01	--	--	--
NOV								
04...	0950	2.2	7.0	1	0.01	--	--	--
DEC								
02...	1250	24	4.0	521	34	--	--	--
03...	1320	5.9	5.0	23	0.37	--	--	--
JAN								
03...	1015	3.2	5.5	5	0.04	--	--	--
18...	1300	7.0	8.0	24	0.45	--	--	--
30...	1120	14	6.5	115	4.3	--	--	--
FEB								
01...	1045	21	7.0	200	11	--	--	--
11...	1010	10	4.5	29	0.78	--	--	--
17...	1420	210	6.5	6700	3800	8	10	15
18...	1110	116	7.0	3010	943	--	--	--
MAR								
05...	1020	20	7.5	736	40	--	--	--
APR								
04...	1010	19	7.0	287	15	--	--	--
MAY								
07...	0945	11	6.5	191	5.7	--	--	--
JUN								
09...	1215	5.9	13.0	48	0.76	--	--	--
JUL								
09...	1025	4.0	13.0	7	0.08	--	--	--
AUG								
06...	0950	2.6	16.0	10	0.07	--	--	--
SEP								
05...	1145	2.1	15.5	8	0.05	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

KLAMATH RIVER BASIN

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
04...	--	--	--	--	--	--	--	--
NOV								
04...	--	--	--	--	--	--	--	--
DEC								
02...	--	--	88	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
JAN								
03...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
30...	--	--	86	93	98	100	--	--
FEB								
01...	--	--	73	82	92	100	--	--
11...	--	--	--	--	--	--	--	--
17...	22	32	40	58	80	95	99	100
18...	--	--	37	54	74	91	99	100
MAR								
05...	--	--	--	--	--	--	--	--
APR								
04...	--	--	42	--	--	--	--	--
MAY								
07...	--	--	--	--	--	--	--	--
JUN								
09...	--	--	--	--	--	--	--	--
JUL								
09...	--	--	--	--	--	--	--	--
AUG								
06...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV							
04...	0955	7.0	1	2.2	4	10	25
04...	1000	7.0	1	2.2	1	3	15
04...	1005	7.0	1	2.2	3	8	23
JAN							
18...	1310	8.0	1	7.0	--	--	1
18...	1315	8.0	1	7.0	--	1	8
18...	1320	8.0	1	7.0	--	1	8
MAR							
05...	1040	7.5	1	20	--	--	1
05...	1045	7.5	1	20	--	--	5
05...	1050	7.5	1	20	--	--	1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV						
04...	41	58	78	97	100	--
04...	33	48	64	84	98	100
04...	38	46	57	77	97	100
JAN						
18...	5	18	54	96	100	--
18...	28	41	61	93	100	--
18...	36	78	95	99	100	--
MAR						

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

KLAMATH RIVER BASIN

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN							
18...	1325	8.0	8	7.0	9.80	4.1	1
30...	1120	6.5	8	14	10.5	5.8	2
FEB							
01...	1050	7.0	8	21	12.0	14	3
11...	1000	4.5	7	10	12.0	1.1	4
MAR							
05...	1030	7.5	15	20	18.0	54	9
MAY							
07...	0945	6.5	18	11	19.0	71	8
AUG							
06...	1010	16.0	11	2.6	6.20	3.9	11
DATE		SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN							
18...	22	60	87	99	100		--
30...	25	60	84	98	100		--
FEB							
01...	24	58	82	97	100		--
11...	23	49	74	92	98	100	
MAR							
05...	28	51	77	97	100		--
MAY							
07...	21	43	69	93	99	100	
AUG							
06...	13	36	72	96	100		--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

LAKE MERRITT BASIN

374807122152701 LAKE MERRITT AT LAKE CENTER

LOCATION.--Lat 37°48'07", long 122°15'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water years 1981 to current year.

COOPERATION.--Water-quality samples collected by Alameda County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT													
02...	1045	5.00	46200	7.40	21.0	5.8	64	<0.10	0.50	0.0	0.4	0.14	0.11
23...	1100	4.00	39000	7.70	17.5	5.7	49	0.20	0.62	0.08	0.7	0.20	0.20
NOV													
30...	1530	4.00	37800	--	14.5	5.1	40	0.10	0.62	--	--	0.39	--
JAN													
02...	1300	4.00	13400	8.80	8.5	11.9	57	0.50	0.33	0.17	0.5	0.23	0.06
16...	1130	5.00	37500	8.50	10.0	8.3	46	0.30	0.26	0.54	0.8	0.21	0.18
FEB													
20...	1040	4.20	34300	8.30	12.5	13.0	55	<0.10	0.09	0.41	0.5	0.14	0.08
MAR													
20...	0950	4.50	35500	8.20	15.5	9.5	70	<0.10	0.17	0.53	0.7	0.18	0.07
APR													
18...	1120	4.00	41600	8.00	18.0	9.1	78	0.20	0.19	0.41	0.6	0.13	0.06
MAY													
01...	1145	4.00	41900	8.00	19.0	10.3	85	<0.10	0.17	0.33	0.5	0.12	0.06
16...	1145	4.00	43400	8.10	20.0	10.0	79	<0.10	0.43	0.07	0.5	0.15	0.11
30...	1035	5.00	43900	7.90	18.5	7.2	83	<0.10	0.47	0.03	0.5	0.23	0.08
JUN													
06...	1220	4.00	42900	8.30	23.0	11.0	72	<0.10	0.36	0.24	0.6	0.23	0.21
20...	1120	4.00	44100	8.00	21.5	6.2	493	<0.10	0.58	0.02	0.6	0.30	0.25
JUL													
02...	1105	4.50	45600	7.80	24.5	6.8	100	<0.10	0.52	0.08	0.6	0.25	0.18
23...	1400	4.00	41000	7.80	23.5	8.9	103	<0.10	0.38	0.12	0.5	0.20	0.13
AUG													
14...	1435	4.50	54400	7.80	22.5	8.2	64	<0.10	0.32	0.38	0.7	0.19	0.17
28...	1310	8.50	48500	7.70	22.5	9.4	117	<0.10	0.24	0.26	0.5	0.20	0.09
SEP													
12...	1115	5.00	54200	7.80	22.0	8.3	112	<0.10	0.29	0.31	0.6	0.21	0.13

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT													
23...	1530	4.00	45600	7.50	17.5	5.5	51	0.20	0.57	0.03	0.6	0.22	0.19
NOV													
20...	1200	4.00	43600	7.50	12.5	6.5	41	0.10	0.55	0.25	0.8	0.27	0.17
DEC													
26...	1500	5.00	42700	7.80	9.5	12.4	104	0.40	0.22	0.28	0.5	0.26	--
FEB													
07...	1300	5.00	36300	7.40	12.0	10.4	65	0.40	0.39	0.0	0.3	0.32	0.25
MAR													
20...	1400	4.00	12500	8.40	15.0	15.9	18	0.40	0.12	0.78	0.9	0.18	0.13
APR													
10...	1300	4.00	24500	7.70	18.0	--	27	0.10	0.14	0.36	0.5	0.14	0.09
24...	1325	4.00	29600	7.80	18.5	13.6	20	<0.10	0.18	0.42	0.6	0.17	0.08
MAY													
08...	1215	5.00	33400	7.50	18.5	9.6	28	<0.10	0.16	0.34	0.5	0.14	0.09
22...	1245	4.00	37400	7.50	20.0	10.4	41	<0.10	0.45	0.05	0.5	0.10	0.06
JUN													
05...	1155	4.00	39800	7.40	19.5	9.9	12	<0.10	0.26	0.14	0.4	0.12	0.08
19...	1225	5.00	41100	7.70	22.5	11.2	21	<0.10	0.38	0.12	0.5	0.16	0.09
JUL													
01...	1210	4.00	42400	7.50	23.5	10.4	18	<0.10	0.43	0.07	0.5	0.20	0.11
29...	1000	3.50	44600	7.50	22.0	11.7	27	<0.10	0.40	--	--	0.20	0.11
AUG													
14...	1210	4.00	45300	7.50	22.0	10.2	12	<0.10	0.47	0.03	0.5	0.19	0.12
SEP													
04...	1150	3.50	45800	7.50	21.5	11.1	40	<0.10	0.03	0.37	0.4	0.22	0.02
10...	1150	2.50	45000	7.50	22.5	12.2	51	<0.10	0.30	0.3	0.5	0.23	0.16

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

LAKE MERRITT BASIN

374722122155501 OAKLAND HARBOR ESTUARY

LOCATION.--Lat 37°47'22", long 122°15'55", in Oakland, Alameda County, Hydrologic Unit 18050004.

PERIOD OF RECORD.--April 1980 to current year.

COOPERATION.--Water-quality samples were collected by Alameda County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO DIS- SOLVED (MG/L AS P)
OCT													
02...	1230	5.50	46800	7.40	21.0	5.3	64	0.20	0.59	0.01	0.6	0.17	0.16
23...	1240	7.50	43900	7.50	16.5	6.9	41	0.20	0.38	0.12	0.5	0.11	0.12
NOV													
30...	1400	5.00	33000	7.40	14.0	7.3	43	0.70	0.26	0.34	0.6	0.25	0.06
JAN													
02...	1500	5.00	38500	7.80	9.0	8.4	13	<0.10	0.06	--	--	0.28	0.20
16...	1400	4.00	35300	8.00	10.5	9.7	56	0.30	0.25	0.55	0.8	0.22	0.16
FEB													
20...	1230	7.60	39800	8.00	12.5	8.3	46	0.30	0.22	0.18	0.4	0.13	0.12
MAR													
20...	1150	4.80	39900	7.90	13.5	7.8	61	0.10	0.33	0.27	0.6	0.16	0.14
APR													
18...	1310	7.50	42400	7.60	17.0	6.8	58	<0.10	0.29	0.21	0.5	0.16	0.11
MAY													
01...	1010	7.50	43100	7.70	16.5	7.4	87	0.10	0.34	0.06	0.4	0.14	0.13
16...	1015	5.00	44200	7.70	18.0	6.9	80	0.10	0.53	0.07	0.6	0.18	0.13
30...	1210	6.50	44400	7.70	18.0	7.1	81	0.10	0.41	0.0	0.4	0.22	0.18
JUN													
06...	1415	6.50	44600	7.80	20.5	7.2	78	<0.10	0.45	0.05	0.5	0.23	0.21
20...	0935	3.30	44400	7.80	21.0	4.0	98	<0.10	0.78	0.0	0.6	0.28	0.24
JUL													
23...	1100	4.00	46600	7.60	21.5	6.0	87	<0.10	0.49	0.0	0.4	0.20	0.15
AUG													
14...	1205	6.00	45300	7.60	21.5	7.3	85	<0.10	0.36	0.14	0.5	0.19	0.19
28...	1030	7.00	45500	7.50	21.0	6.4	107	<0.10	0.42	0.08	0.5	0.26	0.19
SEP													
12...	1320	7.50	45400	7.50	23.0	--	68	0.10	0.47	0.13	0.6	0.28	0.23

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO DIS- SOLVED (MG/L AS P)
OCT													
23...	1230	6.00	28600	7.50	16.5	6.6	59	0.20	0.64	0.0	0.4	0.20	0.17
NOV													
20...	1400	4.00	46500	7.60	12.0	6.9	64	0.20	0.88	0.0	0.5	0.28	0.23
DEC													
26...	1300	6.00	44000	7.60	9.0	9.5	68	0.50	0.33	0.17	0.5	0.24	--
FEB													
07...	1100	8.00	38800	7.40	12.0	9.6	41	0.50	0.26	0.14	0.4	0.25	0.22
MAR													
20...	1500	4.00	15100	8.10	15.5	14.5	15	0.40	0.04	0.66	0.7	0.12	0.08
APR													
10...	1000	4.00	27100	7.60	16.5	--	41	0.20	0.03	0.27	0.3	0.11	0.09
24...	1030	5.00	33800	7.50	15.5	11.7	34	<0.10	0.22	0.18	0.4	0.12	0.08
MAY													
08...	1030	4.00	36800	7.40	16.0	9.0	33	<0.10	0.28	0.22	0.5	0.12	0.10
22...	1025	5.00	39100	7.20	17.5	7.9	51	0.10	0.36	0.14	0.5	0.13	0.11
JUN													
05...	0945	5.00	41300	7.20	18.5	9.1	13	<0.10	0.37	0.03	0.4	0.12	0.10
19...	1030	5.00	42700	7.40	20.0	8.3	30	0.10	0.50	0.0	0.4	0.17	0.13
JUL													
01...	0930	5.00	43800	7.20	21.0	9.3	26	0.20	0.51	0.0	0.4	0.17	0.14
29...	1130	4.50	45000	7.10	21.0	9.9	16	0.20	0.51	0.0	0.5	0.23	0.19
AUG													
14...	0945	6.00	45800	7.30	20.5	8.9	33	0.20	0.52	0.0	0.4	0.18	0.17
SEP													
04...	0955	4.00	45800	7.30	21.0	8.3	25	<0.10	0.38	0.0	0.3	0.22	0.17
19...	0944	4.50	45900	7.20	19.5	6.7	20	0.20	0.47	0.0	0.4	0.26	0.20

INDEX

	Page		Page
ACCESS TO WATSTORE DATA.....	14	CULL CREEK TRIBUTARY NO 4 ABOVE CULL CREEK RESERVOIR.....	345
Accuracy of the Records.....	10	Data Collection and Computation.....	8
Acre-foot, definition of.....	14	Data Presentation.....	9,13
Adenosine triphosphate, definition of.....	14	DEFINITION OF TERMS.....	14
Alameda County location of discharge and water-quality stations in.....	25	Del Norte County location of discharge and water-quality stations in.....	27
ALAMEDA CREEK NEAR NILES.....	149	Diatoms, definition of.....	18
ALAMITOS CREEK NEAR NEW ALMADEN.....	321	Discharge, definition of.....	15
Algae, definition of.....	14	Discontinued gaging stations.....	23
Algal growth potential, definition of.....	14	Dissolved, definition of.....	15
Aquifer, definition of.....	14	Dissolved-solids concentration, definition of.....	15
Arrangement of Records.....	11	Diversity index, definition of.....	16
ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY.....	177	Downstream Order System.....	7
ARROYO GRANDE ABOVE PHOENIX CREEK NEAR ARROYO GRANDE.....	43	Drainage area, definition of.....	16
ARROYO GRANDE AT ARROYO GRANDE.....	45	Drainage basin, definition of.....	16
ARROYO LAS POSITAS AT LIVERMORE.....	142	DRY CREEK AT UNION CITY.....	152
ARROYO MOCHO AT LIVERMORE.....	141	DRY CREEK BELOW WARM SPRINGS DAM NEAR GEYSERVILLE.....	194
ARROYO MOCHO NEAR LIVERMORE.....	140	DRY CREEK NEAR GEYSERVILLE.....	203
ARROYO MOCHO NEAR PLEASANTON.....	143	DRY CREEK NEAR MOUTH NEAR HEALDSBURG.....	210
ARROYO SECO NEAR GREENFIELD.....	64	Dry mass, definition of.....	15
ARROYO SECO NEAR SOLEDAD.....	65	EAST FORK RUSSIAN RIVER NEAR CALPELLA.....	182
ARROYO VALLE AT PLEASANTON.....	146	EAST FORK RUSSIAN RIVER NEAR UKIAH.....	184
ARROYO VALLE BELOW LANG CANYON NEAR LIVERMORE.....	144	EEL RIVER: Also see Middle Fork Eel River Also see South Fork Eel River	
ARROYO VALLE NEAR LIVERMORE.....	145	EEL RIVER AT FORT SEWARD.....	235
Artesian, definition of.....	14	EEL RIVER AT SCOTIA.....	242
Artificial substrate, definition of.....	19	EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY.....	230
Ash mass, definition of.....	15	EEL RIVER BELOW SCOTT DAM NEAR POTTER VALLEY.....	226
Bacteria, definition of.....	14	EEL RIVER NEAR DOS RIOS.....	232
BEAR CREEK AT BOULDER CREEK.....	84	EL TORO CREEK NEAR SPRECKELS.....	72
Bed material, definition of.....	14	ELDER CREEK NEAR BRANSCOMB.....	236
Bedload discharge, definition of.....	18	ESTRELLA RIVER NEAR ESTRELLA.....	53
Bedload, definition of.....	18	EXPLANATION OF THE RECORDS.....	7
Benthic organisms, definition of.....	15	Fecal-coliform bacteria, definition of.....	14
BIG SULPHUR CREEK AT GEYSERS RESORT NEAR CLOVERDALE.....	189	Fecal-streptococcal bacteria, definition of.....	14
BIG SUR RIVER NEAR BIG SUR.....	46	GABILAN CREEK NEAR SALINAS.....	73
Biochemical oxygen demand, definition of.....	15	Gage datum, definition of.....	16
Biomass, definition of.....	15	Gage height, definition of.....	16
Blue-green algae, definition of.....	18	Gaging station, definition of.....	16
Bottom material, definition of.....	15	GERBODE VALLEY CREEK NEAR SAUSALITO.....	346
BOULDER CREEK AT BOULDER CREEK.....	85	GRASS VALLEY CREEK AT FAWN LODGE NEAR LEWISTON.....	286
BULL CREEK NEAR WEOTT.....	241	GRASS VALLEY CREEK NEAR FRENCH GULCH.....	362
CARBONERA CREEK AT SCOTT'S VALLEY.....	90	Green algae, definition of.....	18
CARMEL RIVER AT ROBLES DEL RIO.....	47	GREEN GULCH AT MUIR BEACH NEAR TAMALPAIS VALLEY.....	356
CARMEL RIVER NEAR CARMEL.....	48	GUADALUPE CREEK AT GUADALUPE.....	323
CASTRO VALLEY CREEK AT HAYWARD.....	164	GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY AT SAN JOSE.....	326
Cells/volume, definition of.....	15	GUADALUPE RIVER AT SAN JOSE.....	133
Chemical oxygen demand, definition of.....	15	Hardness, definition of.....	16
Chlorophyll, definition of.....	15	Humboldt County location of discharge and water-quality stations in.....	28
CLAIR ENGLE LAKE NEAR LEWISTON.....	283	Hydrologic Bench-Mark Network.....	5
Classification of Records.....	11	Hydrologic Bench-Mark Network, definition of.....	16
COLMA CREEK AT SOUTH SAN FRANCISCO.....	100	Hydrologic unit, definition of.....	16
Color unit, definition of.....	15	Identifying Estimated Daily Discharge.....	10
Comparison of monthly mean dissolved- solids concentration during water year 1986 with long-term mean dissolved-solids concentration of two selected stations.....	6	INDIAN CREEK NEAR HAPPY CAMP.....	279
Contents, definition of.....	15	Instantaneous discharge, definition of.....	15
continuing-record station.....	11	INTRODUCTION.....	1
Contra Costa County location of discharge stations in.....	26	IRON GATE RESERVOIR NEAR HORN BROOK.....	274
Control structure, definition of.....	15	JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH.....	284
Control, definition of.....	15	KLAMATH RIVER AT ORLEANS.....	281
COOPERATION.....	2	KLAMATH RIVER BELOW IRON GATE DAM.....	275
COPCO LAKE NEAR COPCO.....	274		
CORRALITOS CREEK AT FREEDOM.....	81		
CORTE MADERA CREEK AT ROSS.....	176		
COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE.....	339		
COYOTE CREEK NEAR EDENVALE.....	342		
COYOTE CREEK NEAR MADRONE.....	138		
COYOTE CREEK NEAR ORICK.....	264		
Cross-Section Data.....	12		
Cubic foot per second, definition of.....	15		
Cubic foot per second-day, definition of.....	15		
CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY.....	159		

	Page		Page
KLAMATH RIVER NEAR KLAMATH.....	304	National Stream Quality Accounting	
KLAMATH RIVER NEAR SEIAD VALLEY.....	278	Network, definition of.....	17
Klamath River and Trinity River		Natural substrate, definition of.....	19
basins, schematic diagram of.....	273	NAVARRO RIVER NEAR NAVARRO.....	221
Laboratory Measurements.....	12	Nekton, definition of.....	17
LACKS CREEK NEAR ORICK.....	258	NOVATO CREEK AT NOVATO.....	175
LAGUNA DE SANTA ROSA NEAR GRATON.....	211	NOYO RIVER NEAR FORT BRAGG.....	222
LAGUNITAS CREEK AT SAMUEL P TAYLOR			
STATE PARK.....	178	OAKLAND HARBOR ESTUARY.....	368
LAGUNITAS CREEK NEAR POINT REYES		Onsite Measurements and Sample	
STATION.....	179	Collection.....	11
Lake County location of discharge		Organic mass, definition of.....	15
stations in.....	29	Organism count/area, definition of.....	17
LAKE MENDOCINO NEAR UKIAH.....	183	Organism count/volume, definition of.....	17
LAKE MERRITT AT LAKE CENTER.....	367	Organism, definition of.....	17
LAKE PILLSBURY NEAR POTTER VALLEY.....	224	Other Records Available.....	11
LAKE SONOMA NEAR GEYSERVILLE.....	193	OUTLET CREEK NEAR LONGVALE.....	233
Latitude-Longitude System.....	7		
Light-attenuation coefficient,		PAJARO RIVER AT CHITTENDEN.....	78
definition of.....	16	PANTHER CREEK NEAR ORICK.....	262
Line graph showing monthly runoff in		Parameter, definition of.....	17
the 1986 water year at four index		partial-record station.....	11
stations compared to the 1951-80		Partial-record station, definition of.....	17
maximum, minimum, and median.....	4	Particle size, definition of.....	17
LITTLE GRASS VALLEY CREEK NEAR		Particle-size classification,	
LEWISTON.....	364	definition of.....	17
LITTLE LOST MAN CREEK AT SITE NO 2		PATTERSON CREEK AT UNION CITY.....	153
NEAR ORICK.....	266	PENA CREEK NEAR GEYSERVILLE.....	197
LITTLE PINE CREEK NEAR ALAMO.....	170	Percent composition or percent of	
LITTLE RIVER NEAR TRINIDAD.....	252	total, definition of.....	17
LLAGAS CREEK AT MACHADO SCHOOL NEAR		Periphyton, definition of.....	17
MORGAN HILL.....	315	Permanente Creek	
LLAGAS CREEK AT SAN MARTIN.....	318	Also see West Fork Permanente Creek	
LLAGAS CREEK NEAR MORGAN HILL.....	313	PERMANENTE CREEK NEAR MONTA VISTA.....	104
LOPEZ CREEK NEAR ARROYO GRANDE.....	44	PESCADERO CREEK NEAR PESCADERO.....	91
LOS GATOS CREEK ABOVE LEXINGTON		Pesticides, definition of.....	17
RESERVOIR NEAR LOS GATOS.....	329	pH, definition of.....	17
LOS GATOS CREEK AT LARK AVENUE AT LOS		Phytoplankton, definition of.....	18
GATOS.....	334	Picocurie, definition of.....	17
LOS GATOS CREEK AT LINCOLN AVENUE AT		PILARCITOS CREEK AT HALF MOON BAY.....	99
SAN JOSE.....	337	Plankton, definition of.....	18
LOS GATOS CREEK AT LOS GATOS.....	331	Polychlorinated biphenyls, definition of....	18
Macrophytes, definition of.....	16	POTTER VALLEY POWERHOUSE INTAKE NEAR	
MAD RIVER ABOVE RUTH RESERVOIR NEAR		POTTER VALLEY.....	228
FOREST GLEN.....	247	Primary productivity, definition of.....	18
MAD RIVER BELOW RUTH RESERVOIR NEAR			
FOREST GLEN.....	249	Radiochemical Program, definition of.....	18
MAD RIVER NEAR ARCATA.....	251	RECLAMATION DITCH NEAR SALINAS.....	74
MAD RIVER NEAR FOREST GLEN.....	250	Records of Stage and Water Discharge.....	8
Marin County location of discharge		Records of Surface-Water Quality.....	11
stations in.....	30	Recoverable, definition of.....	18
MATADERO CREEK AT PALO ALTO.....	103	REDWOOD CREEK ABOVE PANTHER CREEK NEAR	
MATTOLE RIVER NEAR PETROLIA.....	223	ORICK.....	260
Mean concentration, definition of.....	18	REDWOOD CREEK AT MUIR BEACH NEAR	
Mean discharge, definition of.....	15	TAMALPAIS VALLEY.....	354
Mendocino County location of discharge		REDWOOD CREEK AT ORICK.....	268
and water-quality stations in.....	31	REDWOOD CREEK AT REDWOOD CITY.....	101
Metamorphic stage, definition of.....	16	REDWOOD CREEK BELOW MUIR WOODS, NEAR	
Methylene blue active substance,		MILL VALLEY.....	252
definition of.....	16	REDWOOD CREEK NEAR BLUE LAKE.....	253
Micrograms per gram, definition of.....	16	Remark Codes.....	13
Micrograms per liter, definition of.....	16	RESERVOIRS IN KLAMATH RIVER BASIN.....	274
MIDDLE FORK EEL RIVER NEAR DOS RIOS.....	234	RHEEM CREEK AT SAN PABLO.....	166
Milligrams per liter, definition of.....	16	RODEO LAGOON AT FORT CRONKHTE NEAR	
Miscellaneous sampling site,		SAUSALITO.....	348
definition of.....	11	Runoff map.....	3
Monterey County location of discharge		Russian River:	
and water-quality stations in.....	32	Also see East Fork Russian River	
NACIMIENTO RIVER BELOW NACIMIENTO DAM		RUSSIAN RIVER NEAR CLOVERDALE.....	188
NEAR BRADLEY.....	57	RUSSIAN RIVER NEAR GUERNEVILLE.....	212
NACIMIENTO RIVER BELOW SAPAQUE CREEK		RUSSIAN RIVER NEAR HEALDSBURG.....	190
NEAR BRYSON.....	54	RUSSIAN RIVER NEAR HOPLAND.....	187
Napa County location of discharge and		RUSSIAN RIVER NEAR UKIAH.....	181
water-quality stations in.....	33	RUTH RESERVOIR NEAR FOREST GLEN.....	248
NAPA RIVER NEAR NAPA.....	172		
NAPA RIVER NEAR ST HELENA.....	171	SALINAS RIVER AT PASO ROBLES.....	52
National Geodetic Vertical Datum of		SALINAS RIVER AT SOLEDAD.....	63
1929, definition of.....	17	SALINAS RIVER BELOW SALINAS DAM NEAR	
National Stream Quality Accounting		POZO.....	50
Network.....	5	SALINAS RIVER NEAR BRADLEY.....	61
		SALINAS RIVER NEAR CHUALAR.....	66
		SALINAS RIVER NEAR SPRECKELS.....	70
		SALMON RIVER AT SOMES BAR.....	280

	Page		Page
SAN ANTONIO RIVER NEAR LOCKWOOD.....	58	Suspended-sediment discharge, definition of.....	19
San Benito County location of discharge and water-quality stations in...	34	Suspended-sediment load, definition of.....	19
SAN BENITO RIVER AT STATE HIGHWAY 156 NEAR HOLLISTER.....	77	TABLE ROCK CREEK AT STINSON BEACH.....	360
SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL.....	76	Taxonomy, definition of.....	20
SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY.....	102	TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS.....	21
SAN GREGORIO CREEK AT SAN GREGORIO.....	95	TENNESSEE VALLEY CREEK NEAR TAMALPAIS VALLEY.....	350
SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY.....	154	Thermograph, definition of.....	20
SAN LORENZO CREEK BELOW BITTERWATER CREEK NEAR KING CITY.....	62	Time-weighted average, definition of.....	20
SAN LORENZO RIVER AT BIG TREES.....	87	Tons per acre-foot, definition of.....	20
SAN LORENZO RIVER NEAR BOULDER CREEK.....	83	Tons per day, definition of.....	20
San Luis Obispo County location of discharge and water-quality stations in...	35	Total coliform bacteria, definition of.....	14
San Mateo County location of discharge and water-quality stations in.....	36	Total load, definition of.....	20
SAN RAMON CREEK AT SAN RAMON.....	167	Total organism count, definition of.....	17
SAN RAMON CREEK AT WALNUT CREEK.....	168	Total, definition of.....	20
Santa Clara County location of discharge and water-quality stations in...	37	Total, recoverable, definition of.....	20
Santa Cruz County location of discharge stations in.....	38	Total-sediment discharge, definition of.....	19
SANTA MARGARITA LAKE NEAR POZO.....	49	Total-sediment load, definition of.....	19
SANTA RITA CREEK NEAR TEMPLETON.....	51	Trinity County location of discharge and water-quality stations in.....	41
SARATOGA CREEK AT SARATOGA.....	137	Trinity River: Also see South Fork Trinity River	
SCOTT RIVER NEAR FORT JONES.....	277	TRINITY RIVER ABOVE COFFEE CREEK NEAR TRINITY CENTER.....	282
Sediment.....	5,12	TRINITY RIVER AT HOOPA.....	302
Sediment, definition of.....	18	TRINITY RIVER AT LEWISTON.....	285
SHASTA RIVER NEAR YREKA.....	276	TRINITY RIVER BELOW LIMEKILN GULCH NEAR DOUGLAS CITY.....	294
Siskiyou County location of discharge and water-quality stations in.....	39	TRINITY RIVER NEAR BURNT RANCH.....	300
SMITH RIVER NEAR CRESCENT CITY.....	308	Trinity and Klamath River basins schematic diagram of.....	273
Sodium-adsorption-ratio, definition of.....	19	Turbidity, definition of.....	20
Solute, definition of.....	19	UPPER PENITENCIA CREEK AT SAN JOSE.....	139
Sonoma County location of discharge and water-quality stations in.....	40	UVAS CREEK NEAR GILROY.....	75
SOQUEL CREEK AT SOQUEL.....	82	VALLECITOS CREEK AT SUNOL.....	147
SOUTH FORK EEL RIVER AT LEGGETT.....	239	VAN DUZEN RIVER NEAR BRIDGEVILLE.....	246
SOUTH FORK EEL RIVER NEAR MIRANDA.....	240	WALKER CREEK NEAR MARSHALL.....	180
SOUTH FORK TRINITY RIVER BELOW HYAMPOM.....	301	WALNUT CREEK AT CONCORD.....	169
SPECIAL NETWORKS AND PROGRAMS.....	5	Water Quality.....	5
Specific conductance, definition of.....	19	Water Temperature.....	12
Stage-discharge relation, definition of.....	19	Water year, definition of.....	20
Station Identification Numbers.....	7	WDR, definition of.....	20
Streamflow, definition of.....	19	WEBB CREEK NEAR STINSON BEACH.....	358
Substrate, definition of.....	19	Weighted average, definition of.....	20
SUMMARY OF HYDROLOGIC CONDITIONS.....	2	WEST FORK PERMANENTE CREEK NEAR MONTA VISTA.....	109
SUPPLY CREEK AT HOOPA.....	303	Wet mass, definition of.....	15
Surface area, definition of.....	19	WILDCAT CREEK AT VALE ROAD AT RICHMOND.....	165
Surface Water.....	2	WSP, definition of.....	20
Surficial bed material, definition of.....	19	ZAYANTE CREEK AT ZAYANTE.....	86
Suspended sediment, definition of.....	18	Zooplankton, definition of.....	18
Suspended, definition of.....	19		
Suspended, recoverable, definition of.....	19		
Suspended, total, definition of.....	19		
Suspended-sediment concentration, definition of.....	18		

CALENDAR FOR WATER YEAR 1986

1985

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1986

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